



**Quarterly Report of Progress (May 2011-July 2011)  
Operations and Maintenance  
Remediation Systems for Gasoline Alley and Army Air Force  
Exchange Service Station  
Fort Drum, New York**



United States Army Environmental Command



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**LIST OF ACRONYMS & ABBREVIATIONS**

AAFES	Army Air Force Exchange Service
AAS	Aquifer Air Sparging
bgs	below ground surface
BTEX	Benzene, toluene, ethylbenzene, and xylenes
cfm	cubic feet per minute
DO	Dissolved Oxygen
DPE	Dual-phase extraction
ft	Feet
gpm	gallons per minute
ISCO	In-Situ Chemical Oxidation
LIF	Laser-Induced Fluorescence
LNAPL	Light Non-Aqueous Phase Liquid
MIP	Membrane Interface Probe
µg/l	Micrograms per liter
MPE	Multi-phase extraction
NYSDEC	New York State Department of Environmental Conservation
O&M	Operation and maintenance
ORP	Oxidation-Reduction Potential
PID	Photoionization Detector
Plexus	Plexus Scientific Corporation
POTW	Publicly-Owned Treatment Works
ppm	parts per million
psi	pounds per square inch
SVE	Soil Vapor Extraction
USEPA	United States Environmental Protection Agency
UVOST	Ultra-Violet Optical Screening Tool
VOC	Volatile Organic Compounds

## 1.0 INTRODUCTION

Gasoline Alley is located in the southwest corner of the Fort Drum Military Installation, within the developed portion of the installation known as the Cantonment Area (**Figure 1-1**). The 2-mile-long thoroughfare consists of two parallel one-way streets (Oneida and Ontario Avenues) and the associated unpaved median located between the two avenues.

Nine former fuel dispensing areas were located in or near the Gasoline Alley median. The former dispensing areas are referred to as Areas 1195, 1295, 1395, 1495, 1595, 1795, 1895, 1995, and 3805; however, only five of those areas (Areas 1295, 1595, 1795, 1995, and 3805) and the Army Air Force Exchange Services (AAFES) Service Station (Building P-2140) are discussed in this report. Under Delivery Order 0004, Plexus Scientific Corporation (Plexus) provided operation and maintenance (O&M) services at the previously mentioned Gasoline Alley sites through 31 July 2011. The sections below (2.0 and 3.0) present an overview of the technologies being employed at the sites followed by descriptions of each site including a brief remediation history.



## 2.0 TECHNOLOGY OVERVIEW

Currently, contaminant concentrations at the Fort Drum Military Installation are being addressed by monitored natural attenuation and a variety of active remedial technologies briefly explained in this section. As contaminant concentrations are at varying degrees at the different locations, the technologies for treatment vary.

### 2.1 In-situ Chemical Oxidation with Ozone

*In-situ* Chemical Oxidation (ISCO) is the injection of liquid or gas into the subsurface that causes oxidation and can result in the direct destruction of petroleum contamination. This process can also result in the indirect decrease of petroleum contamination by increasing the dissolved oxygen content in groundwater, which enhances biodegradation. Currently, Plexus is applying the ISCO technology in the form of gas Ozone (O<sub>3</sub>) injection. Ozone is an allotrope of oxygen, consisting of three oxygen atoms that are less stable than diatomic oxygen (O<sub>2</sub>). Ozone is more soluble than oxygen in water and has been used for decades in municipal water treatment applications for disinfectant purposes. However, the use of ozone as an ISCO compound for soil and groundwater remediation projects has increased over the last several years as an alternative remedial method. There are two distinct forms of in-situ ozone application: vadose zone injection of ozone gas and ozone sparging below the water table. In general, ozone based processes for site remediation are similar to other chemical oxidation techniques in that the oxidant of choice is injected into the desired treatment area. However, the use of ozone is different from most oxidation processes as the ozone can be injected as a gas or liquid (as ozonated water). This approach provides the opportunity to deliver more continuous oxidation as opposed to batch applications typically associated with other techniques. When an ozone molecule comes in contact with a volatile organic compound (VOC) molecule, the ozone reacts with the contaminant producing innocuous substances such as carbon dioxide (CO<sub>2</sub>) and water (H<sub>2</sub>O).

### 2.2 Dual-phase Extraction / Multi-phase Extraction

Dual-phase extraction (DPE), also known as multi-phase extraction, vacuum-enhanced extraction, or sometimes bioslurping, is an *in-situ* technology that uses pumps to remove various combinations of contaminated groundwater, separate-phase petroleum product, and hydrocarbon vapor from the subsurface. Extracted liquids and vapor are treated and collected for disposal, or re-injected to the subsurface (where permissible under applicable state laws). DPE systems can be effective in removing separate-phase product (free product) from the subsurface, thereby reducing concentrations of petroleum hydrocarbons in both the saturated and unsaturated zones of the subsurface. DPE systems are typically designed to maximize extraction rates; however, the technology also stimulates biodegradation of petroleum constituents in the unsaturated zone by increasing the supply of oxygen, in a manner similar to that of bioventing. DPE is often selected because it enhances groundwater and/or product recovery rates, especially in layered, fine-grained soils. The application of DPE also maximizes the effectiveness of soil vapor extraction (SVE) by lowering the water table and therefore increasing air-phase permeabilities in the vadose zone. The vacuum applied to the subsurface with DPE systems creates vapor-phase pressure gradients toward the vacuum well. These vapor-phase pressure gradients are also transmitted directly to the subsurface liquids present, and those liquids existing in a continuous phase (*e.g.*, water and "free" petroleum product) will flow toward the vacuum well in response to the imposed gradients (the term "free" product is a commonly used, though imprecise term because a greater fraction of resident petroleum product may be recovered using vacuum-

enhanced DPE compared to the fraction of product recoverable using gravity drainage alone). The higher the applied vacuum, the larger the hydraulic gradients that can be achieved in both vapor and liquid phases, and thus the greater the vapor and liquid recovery rates.

### **2.3 Aquifer Air Sparging System**

Air sparging is an *in situ* remedial technology that reduces concentrations of volatile constituents in petroleum products that are adsorbed to soils and dissolved in groundwater. This technology, which is also known as "*in situ* air stripping" and "*in situ* volatilization," involves the injection of contaminant-free air into the subsurface saturated zone, enabling a phase transfer of hydrocarbons from a dissolved state to a vapor phase. The air is then vented through the unsaturated zone. Air sparging is most often used together with soil vapor extraction (SVE), but it can also be used with other remedial technologies. When air sparging (AS) is combined with SVE, the SVE system creates a negative pressure in the unsaturated zone through a series of extraction wells to control the vapor plume migration. This combined system is called AS/SVE.

### **2.4 Soil Vapor Extraction**

Soil vapor extraction (SVE), also known as "soil venting" or "vacuum extraction", is an *in situ* remedial technology that reduces concentrations of volatile constituents in petroleum products adsorbed to soils in the unsaturated (vadose) zone. In this technology, a vacuum is applied through wells near the source of contamination in the soil. Volatile constituents of the contaminant mass "evaporate" and the vapors are drawn toward the extraction wells. Extracted vapor is then treated as necessary (commonly with carbon adsorption) before being released to the atmosphere. The increased air flow through the subsurface can also stimulate biodegradation of some of the contaminants, especially those that are less volatile. Wells may be either vertical or horizontal. In areas of high groundwater levels, water table depression pumps may be required to offset the effect of upwelling induced by the vacuum.

## **3.0 GASOLINE ALLEY SITE DESCRIPTIONS**

### **3.1 Area 1295**

Three areas of soil and groundwater contamination have been identified during the installation of monitoring wells, as well as through direct push sampling. No remediation system was ever installed due to site constraints. Alternatively, ISCO injections, using a hydrogen peroxide-based chemical oxidant mixture with Fenton's Reaction chemistry, were conducted in 2006 and 2007. Five full-scale injections were conducted at each of three source treatment areas. Results indicated that the ISCO injections were not effective at sufficiently reducing the benzene, toluene, ethylbenzene and total xylenes (BTEX) concentrations in the groundwater at Area 1295. The results of the Membrane Interface Probe (MIP) and Laser Induced Fluorescence (LIF) Ultraviolet Optical Screening Tool (UVOST) Investigations conducted in April 2009 indicated, an area of impacted soil potentially contributing to the groundwater impact at Area 1295. The horizontal distribution of this zone has been delineated and consists of an approximately 20-foot (ft) wide north south trending area of impacted soils and groundwater extending between eight and 12-ft below grade surface (bgs).

As outlined in the Workplan for Mobile Ozone Aquifer Air Sparging System, dated August 2009, Plexus installed 12 injection points to a depth of approximately 11 to 13-ft bgs. The injection points were constructed of two inch schedule 80 PVC consisting of two-feet of 40-micron Schuma Screen diffuser and approximately 10-ft of solid riser to be finished at grade with a flushmount well cover. The intent of the injection duration was to be one month followed by an evaluation and determination of future application. Based on the response to treatment from other area applications and for flexibility in treatment technology, Plexus installed 12 points to depths ranging from 11 to 13-ft bgs with a standard 2-inch monitoring well construction. Injection stingers were constructed as detailed in the work plan. In addition to the use of a monitoring well construction, Plexus learned from previous applications that though the fluctuations in dissolved oxygen (DO) and oxidation-reduction potential (ORP) were indications of gas delivery, application durations longer than two months were necessary for observable reductions in contaminant concentrations. The ozone treatment unit was mobilized from Area 1795 and began operation on 22 July 2010, and continued to 6 December 2010. The unit was shut down due to weather conditions and resumed operation in April 2011. Results and recommendations for this site are presented in Sections 3.1 and 4.1 of this document.

### **3.2 Area 1595**

An Interim Remedial Action was implemented at Area 1595 in 1991. The Interim Remedial Action consisted of installing a treatment facility (Building 1599) that treated groundwater extracted from four recovery wells (1595-RW1, 1595-RW3, 1595-RW4, and 1595-RW5) using an air stripper. On 23 June 2005, the groundwater treatment system was shut off and decommissioned in preparation for the SVE and AAS system installation. Construction of the SVE/AAS system was completed between July and November 2005. The SVE/AAS system was started in December 2005. The SVE/AAS treatment system is designed to address constituents of concern in subsurface soil, groundwater, and surface water at Area 1595. The system was shut down on 21 December 2009 in preparation of ozone injection activities, as outlined in the Workplan for Mobile Ozone Aquifer Air Sparging System, dated August 2009.

Based on the results of the MIP and LIF UVOST Investigations conducted in April 2009, an area of impacted soil potentially contributing to the groundwater impact at Area 1595 was identified in the area of 1595-PZ9. The ozone treatment unit was mobilized from Area 1395 and began operation on 22 December 2009, running through 22 February 2010. Although fluctuations in DO and ORP were observed during the application at Area 1395, a two-month application duration was applied at Area 1595 to determine if contaminant reduction could be observed. Ozone was applied to the subsurface in the area via 10 injection points as a “hot-spot” treatment application in the area of monitoring point, 1595-PZ9. Following the ozone application, the AAS system was re-activated primarily to supply air to the subsurface to augment biodegradation activities.

Additionally, based on the general chemistry data that Plexus has been collecting during groundwater sampling events, a work plan for nutrient application at Area 1595 was submitted in August 2010. The work plan identified a nutrient mixture of nitrogen: phosphorous: potassium being applied to the subsurface via the air sparge system injection points for three consecutive months. Upon receipt of the required approvals, NYSDEC and USEPA Region II, Plexus began the application in January 2011 and completed it in March 2011. Sampling was completed in April 2011, validated groundwater results were received in June 2011, and the results and recommendations were presented under another cover as *the Draft Pilot Test Results for Nutrient Application at Building T-91 and Areas 1595, 1245, 1395, and 1495 Fort Drum, New York*, dated August 2011. Following the nutrient application, the AAS system was re-activated to continue to supply air to the subsurface to augment biodegradation activities. Operating system results and recommendations for this site are presented in Sections 3.2 and 4.2 of this document.

### 3.3 Area 1795

The bio-slurping pilot treatment system was shut down in September 2000. Select site wells were subsequently gauged on a monthly basis between September 2000 and July 2006 to monitor the water table elevation and light non-aqueous phase liquids (LNAPL). LNAPL were recovered from site wells when present. MPE and AAS technologies were selected to address the source area vadose zone soil and saturated smear zone soil at Area 1795. Site work for the installation of three new SVE/AAS remediation systems was completed between Spring and Winter 2007. Start up and prove out of the SVE/AAS systems began in January 2008. The remedial systems included in this report were installed at the locations described below:

- Area 1795 Zone 1, south of the railroad tracks including the median between Oneida and Ontario Avenues (System A)
- Area 1795 Zone 2, north of the railroad tracks and east of the WWII Landfill (System B)
- Area 1795 Zone 3, north of the WWII Landfill (System C)

The system was shut down on 22 April 2010 in preparation for ozone injection activities. The ozone treatment unit was mobilized from Area 1595 and began operation on 22 April 2010, running through 26 April 2010, when it was shut down to allow the SVE system to extract elevated petroleum vapors detected within area monitoring wells. Ozone was applied to the subsurface in the area via six injection points. The SVE/AAS systems continue to run and isolation of the various system extraction legs has enhanced the contaminant recovery. Results and recommendations for this site are presented in Sections 3.3 and 4.3 of this document.

### 3.4 Areas 3805 and 1995

MPE and AAS technologies were selected to address the source area vadose zone soil, LNAPL, and saturated smear zone soil at Areas 3805 and 1995. The remedial systems included in this report were installed at the locations described below:

- Area 3805 north, directly south of New York State Route 26 (System A)
- Area 3805 south, remaining portion of Area 3805 (System B)
- Area 3805, north of New York State Route 26 (System C)
- Area 1995 (System D)

The Area 3805 MPE/AAS systems were started in November 2003 (Systems A and B) and October 2003 (System C). The Area 1995 MPE/AAS system (System D) was started in May 2004.

The AAS system was expanded in 2007 to enhance remediation of the dissolved plume in the downgradient area of the site and improve the performance of System C. Field activities associated with the AAS system expansion were completed between May and August 2007, which consisted of the installation of 18 AAS wells and associated underground piping, and retrofitting the existing trailer.

Plexus proposes to modify selected existing vertical extraction wells into horizontal extraction wells at Gasoline Alley Area 3805, Fort Drum, New York in April 2011. The results from the Fall 2010 Groundwater Sampling event, combined with the soil gas screening conducted during a Fall 2010 intrusive investigation, indicate a vadose zone soil impact which is shallower than the existing, active treatment system. Additionally, a MIP investigation in the area of Leg 9 indicated a shallow impacted soil zone. **(Figure 2-1)** illustrates the organic vapor concentrations reported on the field screening equipment. These results suggest that the modification of select vertical extraction wells into horizontal extraction wells would provide a recovery and treatment solution for the shallower impacted soils. Results and recommendations for this site are presented in Sections 3.4 and 4.4 of this document.

### 3.5 Army Air Force Exchange Service Station Site Description

The Army Air Force Exchange Service (AAFES) Station (Building P-2140), which is an active retail gasoline facility, is located at the southwest corner of Fort Drum **(Figure 1-1)**.

#### 3.5.1 Dual-Phase Extraction System – Source Area Treatment

A DPE treatment system began operation on 30 January 2002 in the area of the former USTs. The objective of the DPE system is to address separate-phase product and residual soil contamination in the source area of the AAFES Station (Building P-2140) site. In order to improve the performance of the DPE system, an AAS system was installed in the source area in 2006 to enhance remediation of the dissolved plume by addressing residual soil contamination below the water table. Field activities associated with the DPE system enhancements were completed between November 2005 and February 2006, which included the installation of 16 AAS wells and associated underground piping, and retrofitting an existing trailer with AAS equipment.

As outlined in the Workplan for Mobile Ozone Aquifer Air Sparging System, dated August 2009, Plexus installed seven injection points ranging between 25 to 30-ft bgs in the area of

monitoring well MW02 and downgradient. The DPE/AAS system was shut down on 22 December 2009 in preparation of ozone injection activities. The ozone treatment unit began operation on 22 December 2009, running through 12 May 2010 when the ozone generator circuit board failed and the system was switched to air sparge only. The ozone system was taken completely off line on 24 June 2010 for system repairs and upgrades. In an effort to continue active treatment of the contaminants during the ozone system's downtime, the existing DPE/AAS system was reactivated. On 24 September 2010, the ozone injection system was mobilized back to the site and reactivated. The contaminant depth and concentrations at AAFES Station (Building P-2140) indicated that a continuous application coupled with the scheduled sampling events would be necessary to monitor contaminant reduction and determine effectiveness. Since the observed impact appears to be at a depth greater than the existing DPE infrastructure, ozone was being applied to the subsurface of the service station via seven newly installed injection points. As a result of mechanical system failures and electrical issues, the mobile ozone system was inactive for approximately 90% of the reporting period. The rental unit was removed from the site and Plexus intends to acquire a newer unit to be mobilized to the site. Results and recommendations for this site are presented in Sections 3.5 and 4.5 of this document.

### **3.5.2 Aquifer Air Sparging with Ozone System – Off-site Wetland Protection**

An AAS with ozone treatment system was installed in Fall 2000 outside the Fort Drum property boundary, and began operation on 14 December 2000. The purpose of the AAS with ozone treatment system was to treat the dissolved-phase benzene, toluene, ethylbenzene, and total xylenes and methyl tertiary-butyl ether plume downgradient of the source area prior to discharging into a downgradient wetlands area. Analytical results from the groundwater samples in this area indicated that total BTEX concentrations in groundwater had been reduced below NYSDEC standards. Therefore, the AAS with ozone treatment system was deactivated on 23 March 2009 following NYSDEC concurrence and approval. The area remains in a post-remedial monitoring phase. Results and recommendations for this site are presented in Sections 3.5 and 4.5 of this document.

## 4.0 SYSTEM OPERATION AND PERFORMANCE MONITORING ACTIVITIES

System operation and performance monitoring activities were completed at each site by Plexus during the reporting period (May 2011 to July 2011). Plexus took over the operation and monitoring activities from EA effective 1 May 2008. The one exception is Area 1795, which Plexus took over effective 7 July 2008.

Daily O&M site visits were conducted during the reporting period to monitor treatment system performance, collect operational data, and make necessary adjustments to the treatment system to optimize system performance. Scheduled maintenance performed during the period included lower explosive limit sensor calibration, vacuum pump and compressor oil changes, filter cleanings, vacuum pump belt adjustments, and static liquid level collection.

### 4.1 Area 1295

#### 4.1.1 Ozone System

Continued elevated concentrations of dissolved petroleum hydrocarbon compounds in groundwater indicated that active remediation was necessary. The results of the MIP and LIF UVOST Investigations, conducted in April 2009, indicated an area of soil contamination potentially contributing to the groundwater impact. Subsequently, the ozone treatment unit was mobilized from Area 1795 and began operation on 22 July 2010 at the site. Ozone application to the subsurface was conducted in the area via 12 injection points (**Figure 2-2**).

#### 4.1.2 Performance Monitoring

Following remobilization and activation of the mobile ozone system on 12 April 2011, daily performance monitoring and O&M activities were conducted at Area 1295. Scheduled activities performed during this period included inspection and service of system components and adjustment of airflow rates to sparge wells to maximize system performance and effectiveness.

Ozone injection pressure and flow rates were recorded during the daily site visits. If flow rates and injection pressures required adjustment, the new flow rate and/or pressure was recorded. The 1295 ozone injection system operated 61 days during the reporting period. Based on the 64 days of potential operating time (excludes scheduled downtime), the system achieved 95 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	1	65	1
Operational downtime	3	64	5
Unscheduled downtime	0	64	0
Total unexpected downtime	3	64	5

A detailed breakdown of system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
7/1/11	7/7/11	Operational	Off due to a broken head gasket
7/29/11	NA	Scheduled	Off for basewide sampling event

## 4.2 Area 1595

### 4.2.1 Soil Vapor Extraction System

#### 4.2.1.1 System Operation

The Area 1595 SVE treatment system (**Figure 2-3**) did not operate between 1 May 2011 and 29 July 2011. The system was shut down on 13 April 2010 for an LNAPL recharge test. The recharge test results indicated little to no recharge and these results combined with the low hydrocarbon vapor recovery, as indicated in the daily system effluent vapor records, supported the continued deactivation of the SVE portion of System 1595. LNAPL gauging of selected monitoring and system wells will continue, and the SVE system will be activated should gauging results indicate that it is necessary.

### 4.2.2 Aquifer Air Sparging System

#### 4.2.2.1 System Operation

The Area 1595 AAS system operated for 90 days between 1 May 2011 and 29 July 2011 derived from the system's operation hour meter. Based on the 90 days of potential operating time (excludes scheduled downtime), the system achieved 99 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	0	90	0
Operational downtime	0	90	0
Unscheduled downtime	1	90	1
Total unexpected downtime	1	90	1

A detailed breakdown of AAS system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
6/27/11	6/31/11	Unscheduled	Power outage

#### 4.2.2.2 Performance Monitoring

In addition to the daily performance monitoring and O&M activities, DO, ORP, and photoionization detector (PID) readings were collected on a monthly basis from select wells, beginning in December 2008, to help analyze system effectiveness.

## 4.3 Area 1795

### 4.3.1 Multi-Phase Extraction Systems

#### 4.3.1.1 Area 1795 - System A Operation

The initial design configuration for Area 1795 System A (**Figure 2-4**) runs extraction Legs 1, 5, and 6. However, on 1 December 2009, system extraction Legs 1 and 6 were replaced with Legs 3 and 4, due to an oil leak on the System B extraction blower. Subsequently, the System B blower was repaired, but the recovery efficiency and effectiveness of utilizing one extraction blower while switching extraction legs to isolate "hot-spot" extraction remained high, and Plexus continued with the single extraction blower configuration. The MPE treatment system operated for 79 days between 1 May 2011 and 29 July 2011 derived from the system's operation hour meter. Based on the 89 days of potential operating time (excludes scheduled downtime), the



system achieved 90 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	1	90	1
Operational downtime	6	89	7
Unscheduled downtime	3	89	3
Total unexpected downtime	9	89	10

A detailed breakdown of MPE system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
5/31/11	5/31/11	Unscheduled	Power outage
6/13/11	6/13/11	Operational	High sump fault
6/20/11	6/20/11	Unscheduled	Power outage
6/20/11	6/21/11	Scheduled	Maintenance and repairs
6/24/11	6/24/11	Operational	High lobe temperature
7/11/11	7/11/11	Operational	High lobe temperature
7/12/11	7/12/11	Operational	High lobe temperature
7/18/11	7/18/11	Operational	High lobe temperature
7/22/11	7/22/11	Operational	High lobe temperature
7/26/11	7/26/11	Unscheduled	Power outage

#### 4.3.1.2 Area 1795 - System B Operation

Area 1795 System B (**Figure 2-4**) runs extraction Legs 2, 3, and 4. Legs 3 and 4, located within the center of the contaminant plume, were subsequently tied in to 1795 System A so that this area would continue to be treated. High efficiency and effectiveness from the utilization of a single extraction blower for “hot-spot” treatment have resulted in the continued deactivation of System B extraction blower.

#### 4.3.1.3 Performance Monitoring

Daily performance monitoring and O&M activities were conducted on the Area 1795 MPE system. Scheduled activities performed during this period included inspection and service of system components and adjustment of vacuum extraction rates from the recovery wells to maximize system performance and effectiveness.

Extraction vacuum and flow rates on the MPE system and select well heads were recorded during the daily site visits, or as weather conditions permitted. If the flow rate required adjustment, the new flow rate was recorded. Additionally, extracted soil vapor concentrations and airflow rates were collected after the vacuum pump.

### 4.3.2 Aquifer Air Sparge System

The AAS systems were operated during the monitoring period to augment the Area 1795 MPE/SVE systems in areas where separate-phase product was not present.

#### 4.3.2.1 Area 1795 - System A Operation

Area 1795 System A AAS system operated for 87 days between 1 May 2011 and 29 July 2011 derived from the system’s operation hour meter. Based on the 90 days of potential operating time (excludes scheduled downtime), the system achieved 97 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	0	90	0
Operational downtime	0	90	0
Unscheduled downtime	3	90	3
Total unexpected downtime	3	90	3

A detailed breakdown of AAS system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
5/31/11	5/31/11	Unscheduled	Power outage
6/20/11	6/20/11	Unscheduled	Power outage
7/26/11	7/26/11	Unscheduled	Power outage

#### 4.3.2.2 Area 1795 - System B Operation

Area 1795 System B AAS system operated for 84 days between 1 May 2011 and 29 July 2011 derived from the system's operation hour meter. Based on the 90 days of potential operating time (excludes scheduled downtime), the system achieved 93 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	0	90	0
Operational Downtime	3	90	3
Unscheduled	3	90	3
Total unexpected downtime	6	90	7

A detailed breakdown of AAS system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
5/31/11	5/31/11	Unscheduled	Power outage
6/20/11	6/20/11	Unscheduled	Power outage
7/12/11	7/12/11	Operational	High lobe temperature
7/18/11	7/18/11	Operational	High lobe temperature
7/22/11	7/22/11	Operational	High lobe temperature
7/26/11	7/26/11	Unscheduled	Power outage

#### 4.3.2.3 Area 1795 - System C Operation

Area 1795 System C (**Figure 2-5**) runs Lines 7, 8 and 9. The AAS treatment system operated for 87 days between 1 May 2011 and 29 July 2011 derived from the system's operation hour meter. Based on the 90 days of potential operating time (excludes scheduled downtime), the system achieved 97 percent uptime during the monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	0	90	0
Operational downtime	0	90	0
Unscheduled downtime	3	90	3
Total unexpected downtime	3	90	3

A detailed breakdown of AAS system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
5/31/11	5/31/11	Unscheduled	Power outage
6/20/11	6/20/11	Unscheduled	Power outage
7/26/11	7/26/11	Unscheduled	Power outage

#### 4.3.2.4 Performance Monitoring

Daily performance monitoring and O&M activities were conducted at the Area 1795 AAS systems. Scheduled activities performed during this period included inspection and service of system components and adjustment of airflow rates to sparge wells to maximize system performance and effectiveness.

Air injection pressure and flow rates were recorded during the daily site visits. If flow rates and injection pressures required adjustment, the new flow rate and/or pressure was recorded. As the primary objective of the AAS technology is the air stripping of dissolved contaminants within the groundwater, all the air sparge wells were activated to maximize stripping and increase the potential for elevating the DO levels. The injection pressure was monitored to stay within the design specifications.

In addition, DO, ORP, and PID readings were collected on a monthly basis from select wells, beginning in December 2008, to help analyze system effectiveness.

## 4.4 Areas 3805 And 1995

### 4.4.1 Multi-Phase Extraction Systems

#### 4.4.1.1 Area 3805 - System A

Area 3805 System A (**Figure 2-6**) primarily runs Lines 3, 4, and 5. The MPE treatment system operated for approximately 25 hours between 1 May 2011 and 29 July 2011 to check holding tank float switches and transfer pumps. The system operated continuously from 15 April 2008 until it was deactivated following the system evaluation and optimization activities conducted in April 2009. Continuous operations of the SVE portions of System 3805 A should remain off until system modifications are completed or monthly gauging indicates that the groundwater table has dropped sufficiently to expose five feet of well screen, to allow for effective removal of hydrocarbon vapors.

#### 4.4.1.2 Area 3805 - System B

Area 3805 System B (**Figure 2-7**) primarily runs Lines 6, 7, 8, 9, 10 and 11. Lines 10 and 11 were turned on in July 2008, but turned off again when it was determined that they were believed to be damaged and subsequently pulling too much water into the system. Although monthly gauging activities have not indicated that the groundwater table had dropped sufficiently to allow for effective removal of hydrocarbon vapors, the system remained in operation, since 15 April 2008, to address the persistent LNAPL detected in areas of the site. LNAPL detections have since decreased to the point where the system was deactivated on 29 July 2010. The system recorded approximately 117 hours of operation during the reporting period for maintenance confirmation testing, discharge sampling requirements and processing groundwater recovered from pump tests conducted within the treatment area. It should remain off until monthly gauging indicates that the groundwater table has dropped sufficiently to expose five feet of well screen.

This will allow for effective removal of hydrocarbon vapors, as agreed by NYSDEC, or until system modifications are completed to provide additional expose screen for vapor recovery.

#### 4.4.1.3 Area 3805 - System C

Area 3805 System C (**Figure 2-8**) runs Lines 1 and 2. The MPE treatment system operated for 72 days between 1 May 2011 and 29 July 2011 derived from the system's operation hour meter. Based on the 75 days of potential operating time (excludes scheduled downtime), the system achieved 97 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	15	90	17
Operational downtime	0	75	0
Unscheduled downtime	2	75	3
Total unexpected downtime	2	75	3

A detailed breakdown of MPE system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
5/31/11	5/31/11	Unscheduled	Power outage
6/14/11	6/29/11	Scheduled	PCE pump test
7/26/11	7/26/11	Unscheduled	Power outage

#### 4.4.1.4 Area 1995 - System D

Area 1995 System D (**Figure 2-9**) is comprised of Lines 12 and 13. The SVE system was deactivated on 6 August 2008 due to an internal leak in the SVE blower.

#### 4.4.1.5 Performance Monitoring

Daily performance monitoring and O&M activities were conducted on the Area 3805 and 1995 MPE systems. Scheduled activities performed during this period included inspection and service of system components and adjustment of vacuum extraction rates from the recovery wells to maximize system performance and effectiveness.

Extraction vacuum and flow rates on the MPE system and select well heads were recorded during the weekly site visits, or as weather conditions permitted. If the flow rate required adjustment, the new flow rate was recorded. In addition, extracted soil vapor concentrations and airflow rates after the vacuum pump were monitored and recorded daily.

### 4.4.2 Aquifer Air Sparging Systems

The AAS systems were operated during the monitoring period to augment the MPE/SVE systems in areas where separate-phase product was not present.

#### 4.4.2.1 Area 3805 - System A

Although the system A blower has experienced mechanical problems and subsequently repaired, the AAS lines for the system were connected to the system B blower and treatment was applied to the area in conjunction with the B uptime.

#### 4.4.2.2 Area 3805 - System B

System B equipment operated during this quarter using 32 AAS wells, plus the additional 17 AAS wells from system A. The AAS treatment system operated for 72 days between 1 May

2011 and 29 July 2011 derived from the system's operation hour meter. Based on the 74 days of potential operating time (excludes scheduled downtime), the system achieved 97 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	16	90	18
Operational downtime	0	74	0
Unscheduled downtime	2	74	3
Total unexpected downtime	2	74	3

A detailed breakdown of AAS system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
5/31/11	5/31/11	Unscheduled	Power outage
6/14/11	7/1/11	Scheduled	PCE pump test
7/26/11	7/26/11	Unscheduled	Power outage

#### 4.4.2.3 Area 3805 - System C

The AAS treatment system operated for 72 days between 1 May 2011 and 29 July 2011 derived from the system's operation hour meter. Based on the 74 days of potential operating time (excludes scheduled downtime), the system achieved 97 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	16	90	18
Operational downtime	0	74	0
Unscheduled downtime	2	74	3
Total unexpected downtime	2	74	3

A detailed breakdown of AAS system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
5/31/11	5/31/11	Unscheduled	Power outage
6/14/11	7/1/11	Scheduled	PCE pump test
7/26/11	7/26/11	Unscheduled	Power outage

#### 4.4.2.4 Area 1995 - System D

The AAS treatment system operated for 72 days between 1 May 2011 and 29 July 2011 derived from the system's operation hour meter. Based on the 74 days of potential operating time (excludes scheduled downtime), the system achieved 97 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	16	90	18
Operational downtime	0	74	0
Unscheduled downtime	2	74	3
Total unexpected downtime	2	74	3

A detailed breakdown of AAS system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
5/31/11	5/31/11	Unscheduled	Power outage
6/14/11	7/1/11	Scheduled	PCE pump test
7/26/11	7/26/11	Unscheduled	Power outage

#### 4.4.2.5 Performance Monitoring

Daily performance monitoring and O&M activities were conducted at the Area 3805 AAS systems. Scheduled activities performed during this period included inspection and service of system components and adjustment of airflow rates to sparge wells to maximize system performance and effectiveness.

Air injection pressure and flow rates were recorded during the daily site visits. If flow rates and injection pressures required adjustment, the new flow rate and/or pressure was recorded. In addition, DO, ORP, and PID readings were collected on a monthly basis from select wells, beginning in December 2008, to help analyze system effectiveness.

## 4.5 Army Air Force Exchange Service Station

### 4.5.1 Dual-Phase Extraction System

#### 4.5.1.1 System Operation

Due to a mechanical problem with the air compressor in the ozone trailer, the AAFES Station (Building P-2140) DPE system (**Figure 2-10**) operated for 78 days between 1 May 2011 and 29 June 2011 derived from the system's operation hour meter. Based on the 79 days of potential operating time (excludes scheduled downtime), the system achieved 99 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	11	90	12
Operational downtime	0	79	0
Unscheduled downtime	1	79	1
Total unexpected downtime	1	79	1

A detailed breakdown of system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
5/31/11	5/31/11	Unscheduled	Power outage
6/13/11	6/24/11	Scheduled	Ozone injection system active

#### 4.5.1.2 Performance Monitoring

Daily performance monitoring and O&M activities were conducted at the AAFES Station (Building P-2140) DPE and AAS treatment system. Scheduled activities performed during this period included inspection and service of system components and adjustment of airflow rates for the extraction and air sparging wells to maximize system performance and effectiveness. The locations of these wells/piezometers are depicted on **Figure 2-9**.

Extraction pressure and flow rates at the DPE system and well heads were recorded during the weekly site visits. If the flow rate required adjustment, the new flow rate was recorded. The extraction airflow rate, after the vacuum pump, was monitored weekly from a pitot tube installed

on the extraction line. In addition, volatile organic compound (VOC) concentrations were monitored and recorded weekly.

#### 4.5.2 Aquifer Air Sparging System

The AAS systems were operated during the monitoring period to augment the MPE/SVE systems in areas where separate-phase product was not present. Typically, the system was operated using all 16 AAS wells (2140-AAS1 through 2140-AAS16).

##### 4.5.2.1 System Operation

Due to a mechanical problem with the air compressor in the ozone trailer, the AAFES Station (Building P-2140) AAS treatment system operated for 78 days between 1 May 2011 and 29 July 2011 derived from the system's operation hour meter. Based on the 79 days of potential operating time (excludes scheduled downtime), the system achieved 99 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	11	90	12
Operational downtime	0	79	0
Unscheduled downtime	1	79	1
Total unexpected downtime	1	79	1

A detailed breakdown of system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
5/31/11	5/31/11	Unscheduled	Power outage
6/13/11	6/24/11	Scheduled	Ozone injection system active

##### 4.5.2.2 Performance Monitoring

Daily performance monitoring and O&M activities were conducted at the AAFES Station (Building P-2140) AAS treatment system. Scheduled activities performed during this period included inspection and service of system components and adjustment of airflow rates for the extraction and air sparging wells to maximize system performance and effectiveness.

Airflow rates and sparge pressures for the AAS system were recorded during each site visit. If flow rates and pressures required adjustment, the new flow and pressure readings were recorded. AAS system pressures at the blower, blower temperature, and run clock hours were also recorded. Plexus technicians also checked the blower and air lines, drained moisture from the header lines, and added or changed blower oil as required throughout the monitoring period.

In addition, DO, ORP, and PID readings were collected on a monthly basis from select wells, beginning in December 2008, to help analyze system effectiveness.

#### 4.5.3 Aquifer Air Sparging with Ozone System– Off-site Wetland Protection

The AAS with ozone treatment system was installed in Fall 2000, and began operation on 14 December 2000. Analytical results from the groundwater samples collected in Fall 2008 indicated that total BTEX concentrations in groundwater had been reduced below NYSDEC standards. Therefore, the AAS with ozone treatment system was shut down on 23 March 2009 following NYSDEC concurrence and approval.

The AAS with ozone system was subsequently modified into a mobile treatment unit. In July 2009, with NYSDEC concurrence and approval, Plexus initiated a hot-spot treatment pilot test at Areas 1395 and 1495.

#### 4.5.4 Mobile Ozone Aquifer Air Sparging System

##### 4.5.4.1 System Operation

O&M activities associated with the mobile ozone treatment system were conducted at the AAFES Station (Building P-2140) during the reporting period. Continued elevated dissolved petroleum hydrocarbon concentrations within the groundwater indicated that additional active remedial treatment was necessary upgradient of the former USTs. A trailer mounted ozone treatment unit was mobilized and began operation on 22 December 2009, injecting ozone via seven injection point through 12 May 2010 when mechanical problems with the ozone generator caused a failure resulting in no production of ozone. At that time, the trailer mounted system was switched to air sparge only. The ozone system was taken completely off line on 24 June 2010 for system repairs and upgrades and the existing DPE/AAS system was activated. As of 24 September 2010, the ozone injection system was mobilized back to the site and reactivated.

The AAFES Station (Building P-2140) ozone Injection System operated for 10 days between 1 May 2011 and 29 July 2011 derived from the system's operation hour meter. Based on the 90 days of potential operating time (excludes scheduled downtime), the system achieved 11 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	0	90	0
Operational downtime	80	90	89
Unscheduled downtime	0	90	0
Total unexpected downtime	80	90	89

A detailed breakdown of system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
5/1/11	6/13/11	Operational	Off due to compressor failure
6/22/11	NA	Operational	Off due to booster pump failure

##### 4.5.4.2 Performance Monitoring

In addition to the daily performance monitoring and O&M activities, weekly PID, ORP, conductivity, temperature and potential hydrogen (pH) readings were collected from select wells beginning in January 2009, to help analyze system effectiveness.



## 5.0 RESULTS

In general, an effort to further analyze system effectiveness, select wells were chosen for monthly monitoring of DO, ORP and PID readings. In addition, temperature, conductivity and pH readings were collected. A study of enhanced bioremediation of PAH contaminated soil reported larger increases in oxygen consumption in contaminated soil biostimulated by nutrient solutions. Therefore, the resulting fluctuation in values from monitoring event to monitoring event indicating both a delivery of oxygen and an active microbial mass consuming oxygen.

### 5.1 Area 1295

Ozone treatment of residual hydrocarbon impact within the subsurface at Area 1295 was initiated on 22 July 2010 and continued to 6 December 2010 due to weather related conditions. The system was restarted as of April 12, 2011. Ozone sparge pressure and flows were initially adjusted to the proposed parameters of 12 pounds per square inch (psi) and 5 cubic feet per minute (cfm), but system loading on the portable generator required minor adjustments to both the pressure and flows (5 psi and 3 cfm, respectively) to allow a continuous daily application. Pressures and flows were recorded daily to evaluate the effects on the groundwater and determine future application parameters (**Appendix A, Table A-1**).

Initially, due to the proximity of the monitoring network to the ozone injection wells and the potential to damage field equipment with the ozone, no wells were monitored monthly for DO, ORP, conductivity, and PID, but Plexus implemented a monitoring program at 1295-MW30 beginning in March 2011 to capture the monthly information. **Table 3-1** presents the fluctuating results of the DO, ORP and conductivity concentrations which are indicative that delivery of ozone is oxidizing contaminants and providing additional oxygen to augment biodegradation. Groundwater analytical results from samples collected from 1295-MW30 during the Spring 2011 Sampling Event in April 2011, indicate a total BTEX concentration of 2,540.7 micrograms per liter (ug/l) which is a reduction of dissolved contaminants by approximately 33 percent of 3,820.3 ug/l from the previous event, Fall 2010. (**Figure 2-11**)

### 5.2 Area 1595

#### 5.2.1 Light Non-Aqueous Phase Liquid

In general, the water table decreased approximately 0.89 feet during the monitoring period. There was no LNAPL observed during the weekly O&M visits. (**Appendix B, Table B-1**). If LNAPL is encountered during site visits, removal is conducted by bailer or the extraction system.

#### 5.2.2 Soil Vapor Extraction/Multi-Phase Extraction

The combined extraction flow rate (including dilution air) and vacuum pump discharge concentrations could not be calculated due to the system being shutdown during this monitoring period. LNAPL recharge test results combined with the low hydrocarbon vapor recovery, as indicated in the daily system effluent vapor records, support the continued deactivation of the SVE portion of System 1595 (**Appendix B, Table B-2**). The trends in vacuum pump discharge concentration and cumulative contaminant recovery for the system are represented in **Figure 3-1**.

### 5.2.3 Groundwater Treatment

Groundwater was not extracted through the SVE wells during the monitoring period (**Table 3-2**). The extracted groundwater has been historically treated by the air stripper system and discharged to the publicly-owned treatment works (POTW).

### 5.2.4 System Effectiveness Monitoring

In an effort to further analyze system effectiveness, select wells were chosen for monthly monitoring of DO, ORP and PID readings. In addition, temperature, conductivity and pH readings were collected. Results illustrate a fluctuation in values from monitoring event to monitoring event indicating both a delivery of oxygen and an active microbial mass consuming oxygen. A summary of the data is presented in **Table 3-3**. A nutrient application began in January 2011 and completed in March 2011, in which a mixture of nitrogen: phosphorous: potassium was introduced into the subsurface via the AAS injection points to enhance bacterial growth and stimulate biodegradation.

The Spring 2011 Groundwater Sampling Event results illustrated a contaminant reduction within the plume on average approximately 76 percent from the previous sampling event. For example, 1595-PZ12 yielded a total BTEX concentration of 101.64 µg/l compared to the Fall 2010 results of 434.03 µg/l. (**Figure 2-12**)

## 5.3 Area 1795

### 5.3.1 Light Non-Aqueous Phase Liquid

In general, the water table decreased approximately 1.02 feet during the monitoring period. There was no LNAPL observed during the weekly O&M visits. (**Appendix C, Table C-1**). If LNAPL is encountered during site visits, it is removed by bailer or the extraction system.

### 5.3.2 Soil Vapor Extraction/Multi-Phase Extraction

#### 5.3.2.1 Area 1795 - System A

Combined extraction flow rates (including dilution air) and vacuum pump discharge concentrations averaged 402.2 (cfm) and 5.9 (ppm), respectively, during the monitoring period (**Appendix C, Table C-2**). These concentrations equate to the removal of 4.20 gallons of gasoline equivalent from the vapor phase during the monitoring period (**Table 3-5**). The trends in vacuum pump discharge concentration and cumulative contaminant recovery for System A are represented in **Figure 3-2A**. In December 2009, it was determined that one extraction blower had the capacity to efficiently remove vapors from the hot-spot treatment at the site. Therefore, Legs 3 and 4 from 1795 System B were tied into 1795 System A and System B was deactivated and used as a back-up unit.

#### 5.3.2.2 Area 1795 - System B

As described above, Legs 3 and 4 from this System were connected to System A in December 2009 and System B was shutdown. Therefore, no readings have been collected during this quarter. The trends in vacuum pump discharge concentration and cumulative contaminant recovery for System B are represented in **Figure 3-2B**.

### 5.3.2.3 Area 1795 - System C

System C was started in January 2008 and was in the start-up/shake-out process until Plexus acquired the system on 7 July 2008. The purpose of the system is to keep the area downgradient of the plume oxygen enriched to promote bioremediation (**Appendix C, Table C-4**).

## 5.3.3 Groundwater Treatment

### 5.3.3.1 Area 1795 - System A

Groundwater was not extracted through System A during the monitoring period (**Table 3-6**). The extracted groundwater has been historically treated by the air stripper system and discharged to the POTW.

### 5.3.3.2 Area 1795 - System B

System B did not operate during the reporting period, therefore, groundwater was not extracted or processed for discharge via this unit (**Table 3-6**). The extracted groundwater has been historically treated by the air stripper system and discharged to the POTW.

## 5.3.4 System Effectiveness Monitoring

In an effort to further analyze system effectiveness, select wells were chosen for monthly monitoring of DO, ORP and PID readings. In addition, temperature, conductivity and pH readings were collected. Results illustrate a fluctuation in values from monitoring event to monitoring event indicating both a delivery of oxygen and an active microbial mass consuming oxygen. A summary of the data is presented in **Table 3-7**.

Spring 2011 groundwater sample analytical results indicate a total BTEX contaminant increase at the “hot-spot” monitoring well, MWS7, to 10,372 µg/l from a previous concentration in Fall 2010 of 6,303 µg/l which may be the result of the fluctuating groundwater elevation making contact with residual contamination in the soil pore space. The analytical results indicate that the areal limits of the plume have decreased and what once was a large continuous plume is currently 2 smaller plumes containing individual “hot-spots” (MWS3 and MWS7) with lower dissolved phase concentrations from the initial Fall 2008 concentrations. (**Figure 2-13**)

Hydrocarbon concentrations in the extracted vapor continued to increase from 1.9 ppm to 14.1 ppm during the reporting period as illustrated in **Appendix C, Table C-2**. Decreasing groundwater elevation, and, vapor monitoring at system wells and monitoring wells within the treatment area, continue to allow the system modifications to effectively address “hot-spots” and mitigate the potential for plume migration. The system operations should continue with the current flexibility.

## 5.4 Areas 3805 and 1995

### 5.4.1 Light Non-Aqueous Phase Liquid

In general, the water table decreased approximately 1.12 feet during the monitoring period. LNAPL was observed at measurable thicknesses during the monitoring period, primarily at extraction well 3805-PZ-10-2 (**Appendix A, Table A-2** and **Appendix D, Table D-1**). The total LNAPL recovered for the quarter was approximately 0.57 gallons. If LNAPL is encountered during gauging events, it is removed by bailer or the extraction system.

## 5.4.2 Soil Vapor Extraction/Multi-Phase Extraction

### 5.4.2.1 Area 3805 - System A

The combined extraction flow rate (including dilution air) and vacuum pump discharge concentrations averaged 652.2 cfm and 3.0 ppm, respectively during the short duration of operation to test system level switch operation. Following the system test, the SVE portions of System A was deactivated and should remain off until monthly gauging indicates that the groundwater table has dropped sufficiently to expose five feet of well screen or system modification installed to allow for effective removal of hydrocarbon vapors (**Appendix D, Table D-2**). As a result, during the short duration of operations, removal of approximately 0.02 gallons of measurable gasoline equivalent liquid was calculated for this reporting period. (**Table 3-8**). The trends in vacuum pump discharge concentration and cumulative contaminant recovery for System A are represented in **Figure 3-3A**.

### 5.4.2.2 Area 3805 - System B

The combined extraction flow rate (including dilution air) and vacuum pump discharge concentrations averaged 670.9 cfm and 1.6 ppm, respectively during the short duration of operation to treat groundwater accumulated during the PCE pump test in June 2011. Following the pump test, the SVE portions of System B was deactivated and should remain off until monthly gauging indicates that the groundwater table has dropped sufficiently to expose five feet of well screen or system modifications installed to allow for effective removal of hydrocarbon vapors (**Appendix D, Table D-3**). As a result, during the PCE pump test, removal of approximately 0.05 gallons of measurable gasoline equivalent liquid were calculated for this reporting period. (**Table 3-8**). The trends in vacuum pump discharge concentration and cumulative contaminant recovery for System B are represented in **Figure 3-3B**.

### 5.4.2.3 Area 3805 - System C

Combined extraction flow rates (including dilution air) and vacuum pump discharge concentrations averaged 23.8 cfm and 0.1 ppm, respectively, during the monitoring period (**Appendix D, Table D-4**). These concentrations equate to the removal of 0.02 gallons of gasoline equivalent from the vapor phase during the monitoring period (**Table 3-8**). The trends in vacuum pump discharge concentration and cumulative contaminant recovery for System C are represented in **Figure 3-3C**.

### 5.4.2.4 Area 1995 - System D

The combined extraction flow rate (including dilution air) could not be calculated due to the system being shutdown in August 2008 subsequent to the detection of an internal leak in the soil vapor extraction blower. The system will remain inoperable pending the expected approval of the NYSDEC to leave the soil vapor extraction portion of the system off due to historic lack of vapor recovery (**Appendix D, Table D-5**). As a result, there was no vapor recovery or removal of measurable gasoline equivalent liquid this quarter (**Table 3-8**). The trends in vacuum pump discharge concentration and cumulative contaminant recovery for System D are represented in **Figure 3-3D**.

## 5.4.3 Groundwater Treatment

### 5.4.3.1 Area 3805 - System A

A total of 586 gallons of groundwater were treated for System A during the short operation, at an average flow rate of 0.36 gallons per minute (gpm) during the monitoring period. (**Table 3-9**).

The extracted groundwater has been historically treated by the air stripper system and discharged to the POTW.

#### 5.4.3.2 Area 3805 - System B

A total of 3,532 gallons of groundwater were extracted through System B at an average flow rate of 0.47 (gpm) during the monitoring period. (**Table 3-9**). The extracted groundwater has been historically treated by the air stripper system and discharged to the POTW.

#### 5.4.3.3 Area 3805 - System C

A total of 1,502 gallons of groundwater were extracted through System C at an average flow rate of 0.03 gallons per minute (gpm) during the monitoring period (**Table 3-9**). The extracted groundwater was treated by the air stripper system and discharged to the POTW.

#### 5.4.3.4 Area 1995 - System D

The extraction unit on System D was inactive during the reporting period. Therefore, groundwater was not extracted via the system (**Table 3-9**). The extracted groundwater has been historically treated by the air stripper system and discharged to the POTW.

### 5.4.4 System Effectiveness Monitoring

As mentioned previously, the extraction systems within this area have been deactivated or ineffective since April 2009. As a result, the primary remediation units are the AAS units and in an effort to further analyze system effectiveness, select wells were chosen for monthly monitoring of DO, ORP and PID readings. In addition, temperature, conductivity and pH readings were collected. A summary of the data is presented in **Table 3-10**.

Although the Fall 2010 Groundwater Sampling Event results, presented in the 2010 Draft Annual Basewide Monitoring Report, dated March 2011, indicate a total BTEX contaminant reduction in several monitoring locations within the area (i.e., MWS8 from 1,205.2 µg/l to 982.5 µg/l, MWS11 from 12,789 µg/l to 1,991.5 µg/l, PZ13S from 7,698 µg/l to 2,215 µg/l and PZ14 from 33,870 µg/l to 29,700 µg/l), fluctuating concentrations across the treatment area indicate a need to reevaluate the current system configuration and propose an alternative strategy. (**Figure 2-14**)

## 5.5 Army Air Force Exchange Service Station

### 5.5.1 Dual-Phase Extraction System

#### 5.5.1.1 Light Non-Aqueous Phase Liquids

In general, the water table decreased approximately 0.63 feet during the monitoring period LNAPL was not observed in any of the extraction wells during the monitoring period (**Appendix E, Table E-1**). If LNAPL are encountered during gauging events, it is removed by bailer or the extraction system.

#### 5.5.1.2 Soil Vapor Extraction

Combined extraction flow rates (including dilution air) and vacuum pump discharge concentrations averaged 296.0 cfm and 4.4 ppm, respectively, during the monitoring period (**Appendix E, Table E-2**). These concentrations equate to the removal of 0.28 gallons of gasoline equivalent from the vapor phase during the monitoring period (**Table 3-11**). The trends in vacuum pump discharge concentration and cumulative contaminant recovery for the system are represented in **Figure 3-4**.

### 5.5.1.3 Groundwater Treatment

The extraction system was optimized to reduce the volume of groundwater extraction. As a result, groundwater was not recovered while organic vapors were removed during the monitoring period (**Table 3-12**). The extracted groundwater have been historically treated by the air stripper system and discharged to the POTW.

### 5.5.1.4 System Effectiveness Monitoring

In an effort to further analyze system effectiveness, select wells were chosen for monthly monitoring of DO, ORP and PID readings. In addition, temperature, conductivity and pH readings were collected. Results illustrate a fluctuation in values from monitoring event to monitoring event indicating both a delivery of oxygen and an active microbial mass consuming oxygen. A summary of the data is presented in **Table 3-13**.

## 5.5.2 Source Area Ozone Treatment

Ozone treatment of residual hydrocarbon impact within the subsurface at the AAFES Station (Building P-2140) was deactivated through the majority of the reporting period. When the system went off-line, the existing DPE/AAS system was activated. The ozone injection system cycled through 4 zones at 20 minutes per zone, injecting ozone to one or two injection wells at a pressure of approximately 28 psi and a gas flow of approximately 2.2 scfm (**Appendix E, Table E-3**).

The Spring 2011 Groundwater Sampling Event results indicate a total BTEX contaminant reduction in several monitoring locations within the area. Review of the historical data from monitoring well, MW07 and MW02 indicated a six month contaminant reduction of 17 percent (from 8009.8 µg/l to 6,642 µg/l) and 74 percent (2,446.4 µg/l to 628.9 µg/l), respectively. In addition to the reduction in total plume concentrations, the secondary plume in the area of the former ozone treatment building south of the Reservation boundaries has reported analytical result below regulatory limits. (**Figure 2-15**)

## 6.0 SUMMARY AND DISCUSSION

System operation and performance monitoring activities were completed at each site by Plexus during the reporting period (May 2011-July 2011). A list of the additional actions performed during site visits, beyond routine data collection, is presented in **Appendix F**. Prior to 7 May 2008, these activities were being performed by others. The majority of these items included maintenance and repairs to the systems to address changing weather and subsurface conditions.

### 6.1 Area 1295

Persistent dissolved petroleum hydrocarbon concentrations in the groundwater indicated that additional active remedial strategy be implemented. With NYSDEC concurrence and approval in July 2009, Plexus initiated hot-spot treatment pilot tests with the mobile ozone treatment system which was previously operated at the wetland area downgradient of the AAFES service station. The mobile ozone treatment system began operation at Area 1295 on 22 July 2010 and continued through 6 December 2010, when it was deactivated due to inclement weather conditions. The system was reactivated on 12 April 2011 and contaminant concentrations continue to decrease. Ozone injection should continue at the site to continue the contaminant reduction.

### 6.2 Area 1595

The AAS system operated 99 percent of the time during the monitoring period, excluding scheduled downtime. The majority of system downtime was attributed power outages, collection of static groundwater elevations, DO/ORP/PID data, and scheduled maintenance (i.e., oil changes, belts, filters, etc.). The SVE performance monitoring data indicate that the system continues to influence the source area.

LNAPL was not observed during the May 2011 – July 2011 reporting period. If LNAPL was encountered, removal was conducted by bailer or the extraction system.

The SVE system was deactivated on 13 April 2010 to determine if there was LNAPL recharge post ozone treatment and determine if a vapor recovery surge or rebound would occur during the system on/off cycle. System data collected from daily monitoring following scheduled sampling events has indicated that the volatility of the remaining contaminants is low and subsequent groundwater data has indicated that the LNAPL encountered has not dissociated into the dissolved phase and impacted the groundwater where encountered. Weekly and monthly DO, ORP, pH and temperature data indicates that the subsurface is conducive to biological degradation. A nutrient application of a mixture of nitrogen: phosphorus: potassium was approved and initiated beginning January 2011 through March 2011. Concurrent with the nutrient application, the AAS continued to operate to provide an oxygen source to enhance bioremediation. Results from the nutrient application indicated a reduction in the dissolved BTEX plume and no detrimental effects from the addition of a nitrogen compound.

The recommendations for this site are based on the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER)-10, “Technical Guidance for Site Investigation and Remediation,” subsection 6.4(b)(2). Specifically, the Army proposes establishing shut-down criteria for the active remediation system at Area 1595 based on DER-10 using the following steps:

- Periodic cycling of the system on and off.
- Demonstrate no increase and asymptotic rates of constituent removal by the remediation system during the re-start phase of the cycling.

- Collect groundwater samples at the beginning and end of the cycling period to ascertain the possibility of rebound of groundwater contamination being controlled as a consequence of the activated remediation system.

### **6.3 Area 1795**

SVE System A operated 89 percent of the time during the monitoring period, excluding scheduled downtime. The SVE portion of System B was shut down on 2 December 2009, at which time the associated legs were tied into System A. AAS Systems A, B, and C operated 96, 93, and 97 percent of the time during the monitoring period. Although the systems came online in January 2008, it was in a start-up/shake-out period until Plexus took the system over in July 2008.

A combined total of approximately 4.20 gallons of gasoline equivalent (vapor phase) were recovered from the subsurface from May through July 2011. A total of 1,164.58 gallons of gas equivalent (vapor phase) have been removed from the subsurface since operation of the SVE and AAS systems began in July 2008. An increase in extraction screen exposure has facilitated the increase in vapor phase recovery of contaminants. LNAPL was not encountered during the reporting period. Therefore, there was no LNAPL removed from the subsurface.

By continuously changing the extraction legs and isolating the contaminant “hot-spot”, based on groundwater data and PID measurements at the wellhead, Plexus was able to increase the gasoline equivalent recovery process and reduce the energy requirement. As a result, Plexus will continue to make adjustments to system operation during the next quarter to optimize soil vapor recovery and address “hot-spot” treatment. Removal rates are expected to continue to fluctuate based on the artificial and natural groundwater table elevation changes at the site, as well as contaminant reduction, and changes in extraction leg configuration to maximize vapor recovery. Additionally, Plexus will cycle between the operating systems to reduce mechanical wear and tear, and extend the longevity of the operating potential at the site.

### **6.4 Areas 3805 and 1995**

SVE System C operated at 96 percent of the time during the monitoring period, excluding scheduled downtime. AAS Systems B, C, and D operated 95, 95, and 95 percent of the time during the monitoring period. Due to the elevated water table conditions observed during system evaluation activities (all SVE well screens were flooded), the Soil Vapor Extraction portion of System A is to remain off with NYSDEC concurrence. Groundwater elevation gauging is being conducted to determine when the system can be turned back on. Although the unit operated for approximately 25 hours to test level switches in the oil water separator and air stripper, the SVE portion of System A was deactivated from continuous operations in July 2010 as the result of insufficient screen exposure for the effective recovery of hydrocarbons. In addition, the SVE portion of System B was activated and operation for 117 hours to test level switches in the oil water separator and air stripper. The system was also operational for the PCE pump testing that was conducted at 3805 from June 14, 2011 through July 1, 2011. The system was then deactivated from continuous operation until monthly gauging determines sufficient screen exposure. The AAS portion of System A was shut down on 18 June 2009 due to a bad bearing in the sparge blower. The sparge blower was repaired and based on the excess capacity of the blowers for Systems A and B, the System B blower continues to be connected to all the sparge points and operating within the design specifications while reducing the energy consumption requirements.



A combined total of approximately 0.09 gallons of gasoline equivalent (vapor phase) were recovered from the subsurface from May 2011 through July 2011. A total of 5,661.04 gallons of gas equivalent (vapor phase) and 25 gallons of LNAPL have been removed from the subsurface since operation of the SVE and AAS systems began in October 2003. Approximately 0.57 gallons of LNAPL were recovered during the monitoring period. When LNAPL was encountered, removal was conducted by bailer or the extraction system.

As a result of extraction well screen saturation, Plexus is implementing operational parameters to reduce artificial mounding created by the remedial system, decrease groundwater recovery, and increase vapor recovery. In conjunction with the change in system operational parameters, and prior to the Fall 2011 Basewide Groundwater Sampling Event, Plexus has prepared and submitted for review an Extraction Well Modification Work Plan utilizing the historical design data from pilot tests conducted at the site with the intent to modify selected vertical extraction wells into horizontal extraction wells to facilitate activation of the extraction units and remove organic vapors generated from the in-situ air stripping of the AAS system. The intent of this work plan is to aggressively address the impacts within Area 3805 and mitigate contaminant migration.

The Soil Vapor Extraction portion of System D was shut down on 6 August 2008 due to an internal leak in the blower. The SVE portion of the system will remain off pending NYSDEC approval and because the system is being converted to biosparging only operation. Negligible recovery has been achieved using the SVE portion of the system since its inception in May 2004 and continued operation of the SVE system is unnecessary. The Air Sparge system will continue to run at a reduced rate to enhance subsurface oxygen delivery and promote microbial growth, subsequently stimulating biochemical degradation of petroleum hydrocarbon constituents. System operations will be closely monitored and evaluated using groundwater quality results as a principal criterion. Field parameters such as ORP and DO concentrations have indicated that the system is delivering oxygen to the subsurface and augmenting biodegradation. Plexus anticipates that this optimization approach will appreciably reduce operating costs while continuing to contribute to biochemical degradation of petroleum constituents. Results from the current groundwater monitoring will be evaluated and, alternative remedial approaches will be considered for Area 3805 System D, if applicable.

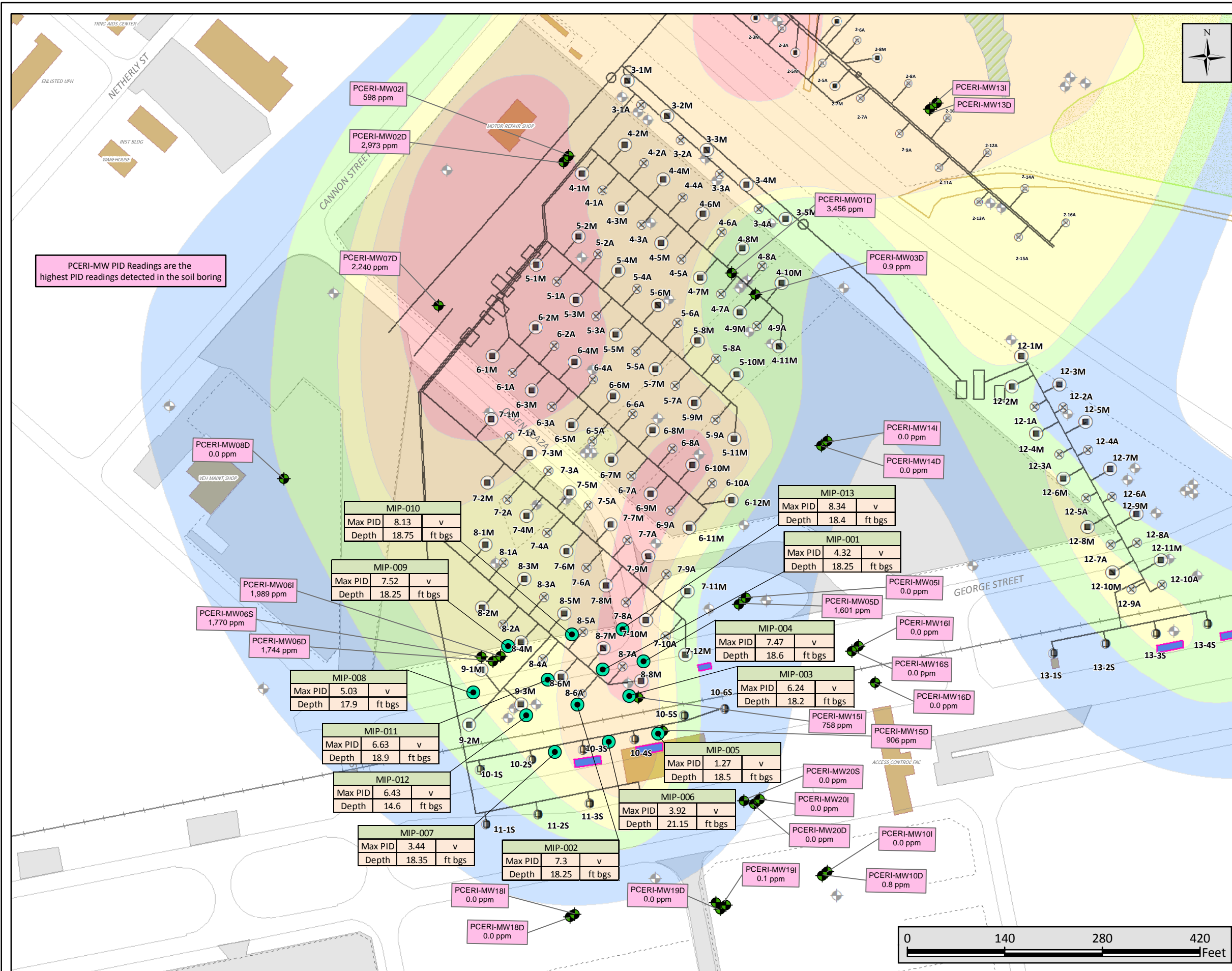
## **6.5 Army Air Force Exchange Service Station**

The DPE System operated 99 percent of the time during the monitoring period, excluding scheduled downtime. The AAS Systems operated 99 percent of the time during the monitoring period. A combined total of approximately 0.28 gallons of gasoline equivalent (vapor phase) were recovered from the subsurface from May through July 2011. A total of 2,400.11 gallons of gas equivalent (vapor phase) have been removed from the subsurface since operation of the DPE system began in February 2002. No LNAPL was observed in the extraction wells during gauging events.

The ozone treatment unit operated 11 percent of the time during the reporting period. This was primarily due to an air compressor failure and a booster pump failure (section 2.5.4.1) The unit delivered ozone via 7 injection points installed upgradient of the former USTs and near the fuel dispensers. Analytical data collected during the Fall 2010 Groundwater Sampling Event combined with field data collection of ORP, DO, pH and PID from selected monitoring points has indicated that the ozone delivery unit is reducing the contaminant concentrations and providing oxygen to the subsurface to augment biodegradation. Dissolved contaminants continue

to decrease in several monitoring wells at the site and Plexus intends to acquire a replacement mobile ozone injection trailer and continue application of ozone at the site.

## FIGURES



PCERI-MW PID Readings are the highest PID readings detected in the soil boring

- ### Legend
- MIP Locations
  - ◆ PCERI MW/Boring Locations
  - ⊗ Air Sparge Wells
  - ⊕ Multi-phase Extraction Wells
  - Soil-vapor Extraction Wells
  - System Pipes & Structures
  - ⊕ Monitoring Wells
  - Former UST

#### BTEX Fall 2010 Plume

- 1 µg/L
- 10 µg/L
- 100 µg/L
- 1,000 µg/L
- 10,000 µg/L

- Fence Line
- Rail Road
- Paved Road
- Unpaved Road
- Landfill Site
- Wetlands
- Building
- Paved Area

Abbreviation Key:  
 PID = Photo-ionic Detector  
 MIP = Membrane Interface Probe  
 V = Volts  
 ppm = parts per million  
 ft bgs = feet below ground surface  
 µg/L = micrograms per liter  
 BTEX = Benzene, Toluene, Ethylbenzene, Xylene  
 UST = Underground Storage Tank  
 MW = Monitoring Well

MIP-010		
Max PID	8.13	v
Depth	18.75	ft bgs

MIP-009		
Max PID	7.52	v
Depth	18.25	ft bgs

MIP-008		
Max PID	5.03	v
Depth	17.9	ft bgs

MIP-011		
Max PID	6.63	v
Depth	18.9	ft bgs

MIP-012		
Max PID	6.43	v
Depth	14.6	ft bgs

MIP-007		
Max PID	3.44	v
Depth	18.35	ft bgs

MIP-002		
Max PID	7.3	v
Depth	18.25	ft bgs

MIP-006		
Max PID	3.92	v
Depth	21.15	ft bgs

MIP-005		
Max PID	1.27	v
Depth	18.5	ft bgs

MIP-004		
Max PID	7.47	v
Depth	18.6	ft bgs

MIP-001		
Max PID	4.32	v
Depth	18.25	ft bgs

MIP-013		
Max PID	8.34	v
Depth	18.4	ft bgs



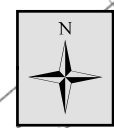
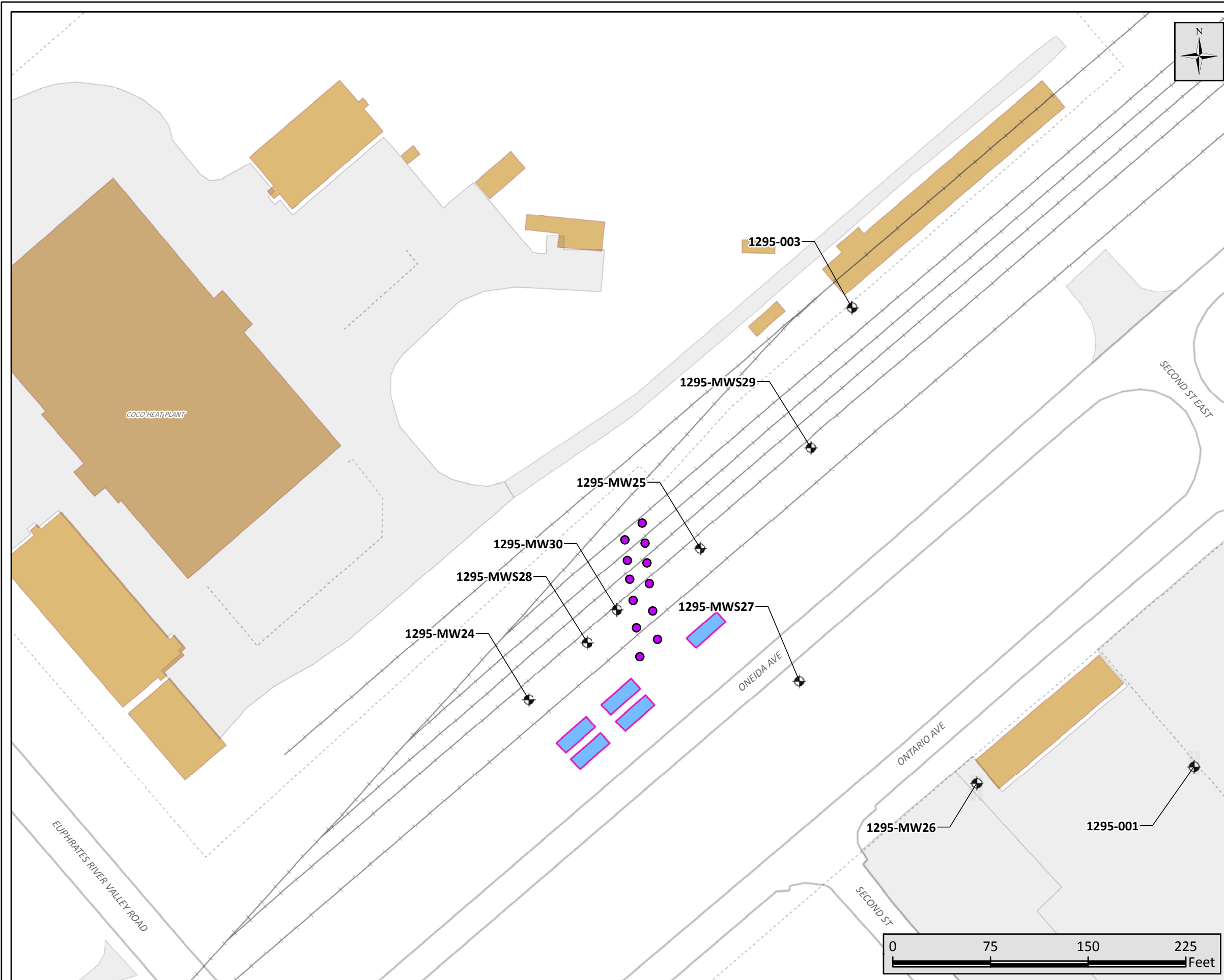
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**FIGURE 2-1**

### PID Readings (PCE and MIP Work)

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**Legend**

- Ozone Injection Points
- ⊕ Monitoring Wells
- Former UST
- - - Fence Line
- + - Rail Road
- Paved Road
- Building
- Paved Area

Abbreviation Key:  
UST = Underground Storage Tank



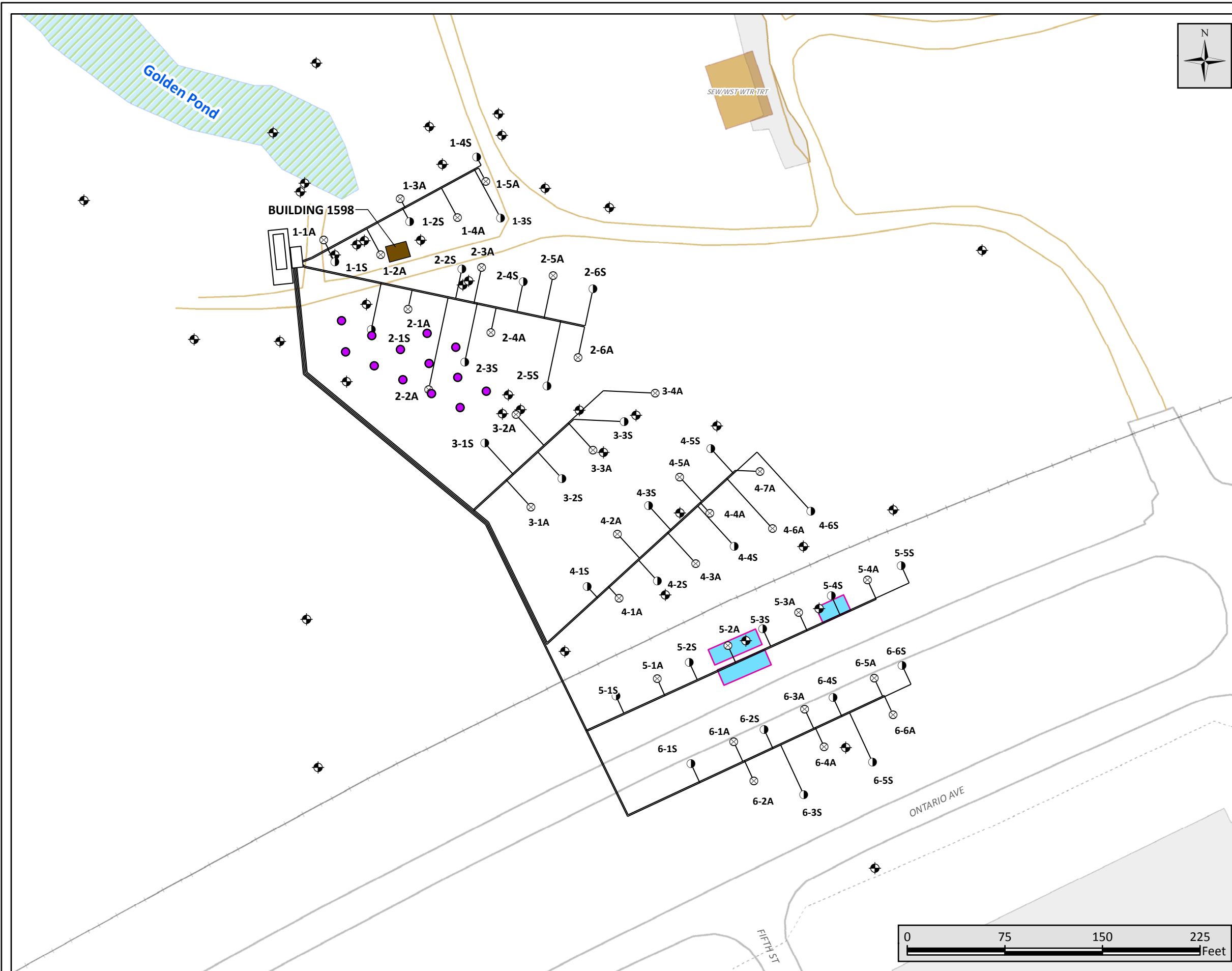
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**FIGURE 2-2**

**Area 1295, Gasoline Alley**

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- Legend**
- Ozone Injection Points
  - ⊗ Air Sparge Wells
  - ⊙ Soil-Vapor Extraction Wells
  - System Pipes
  - ⊕ Monitoring Wells
  - Former UST
  - 1595 System Shed
  - - - Fence Line
  - +— Rail Road
  - Unpaved Road
  - Paved Road
  - ▨ Wetlands
  - Building
  - Paving

Abbreviation Key:  
 UST = Underground Storage Tank



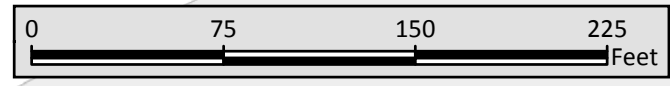
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**FIGURE 2-3**

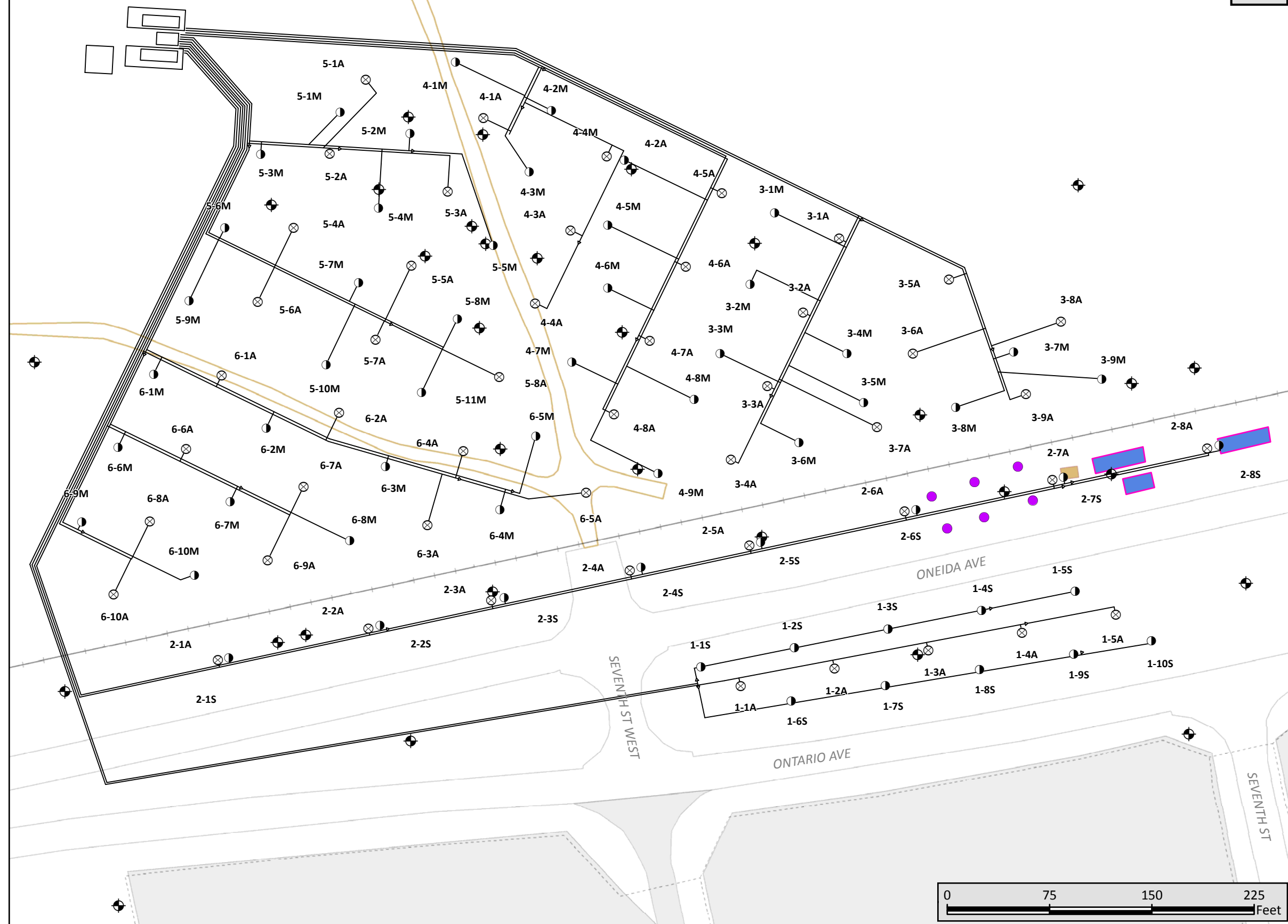
**Area 1595**

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System Buildings



**Legend**

- Ozone Injection Points
- ⊗ Airsparge Wells
- Soil-vapor Extraction Wells
- System Pipes
- ⊕ Monitoring Wells
- Former UST
- - - Fence Line
- +— Rail Road
- Paved Roadline
- Unpaved Roadline
- Landfill Site
- Wetlands
- Building
- Paved Area

Abbreviation Key:  
UST = Underground Storage Tank



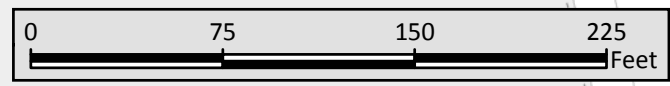
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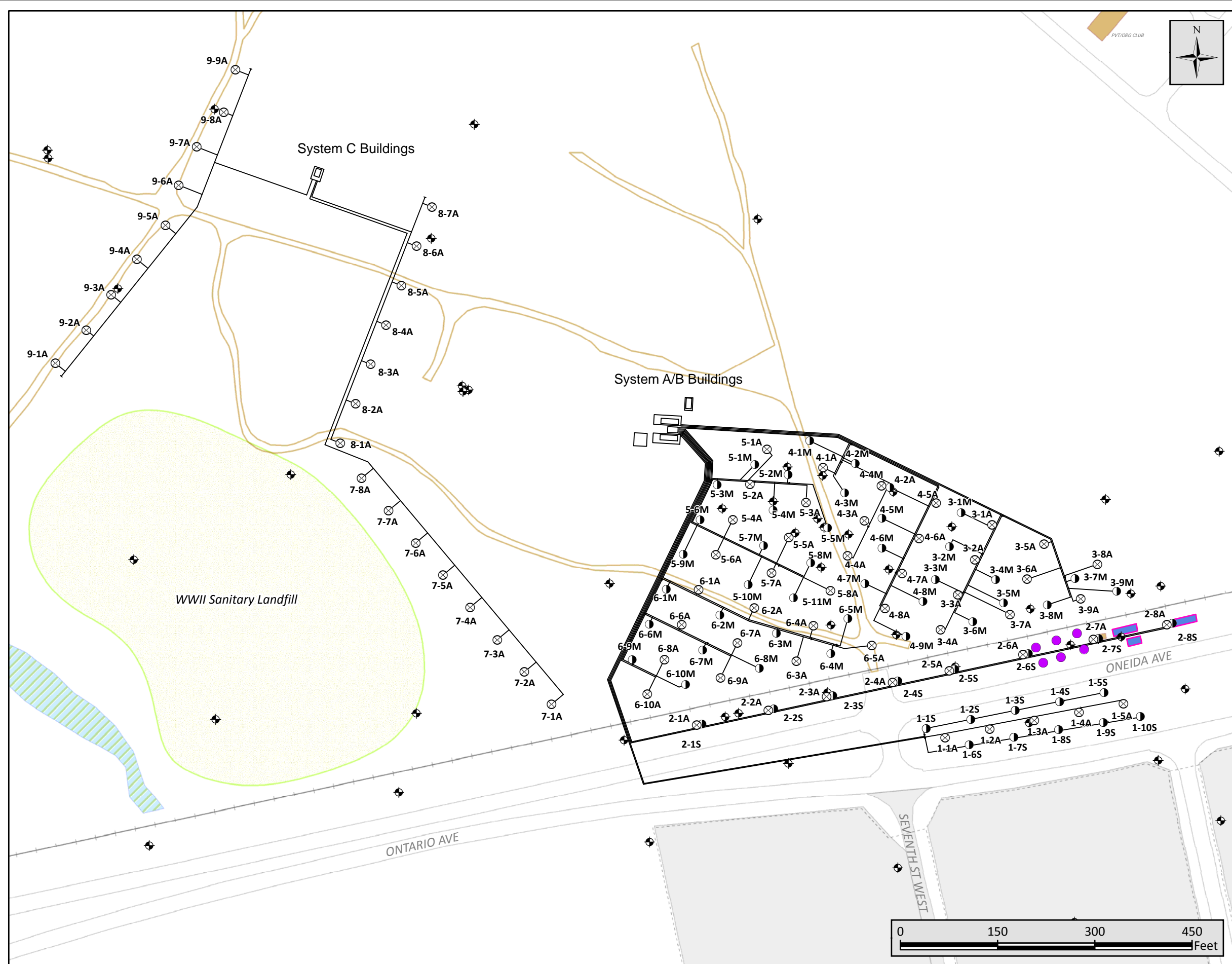
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**FIGURE 2-4**

**Area 1795  
MPE/SVE/AS Treatment System Plan  
Gasoline Alley**

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Remediation Systems for Gasoline Alley  
and Army Air Force Exchange Service Station  
Fort Drum, New York





**Legend**

- Ozone Injection Points
- ⊗ Airsparge Wells
- Soil-vapor Extraction Wells
- System Pipes
- ◆ Monitoring Wells
- Former UST
- - - Fence Line
- Rail Road
- Paved Roadline
- Unpaved Roadline
- Landfill Site
- Wetlands
- Building
- Paved Area

Abbreviation Key:  
UST = Underground Storage Tank



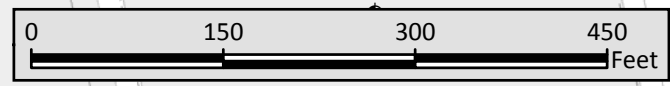
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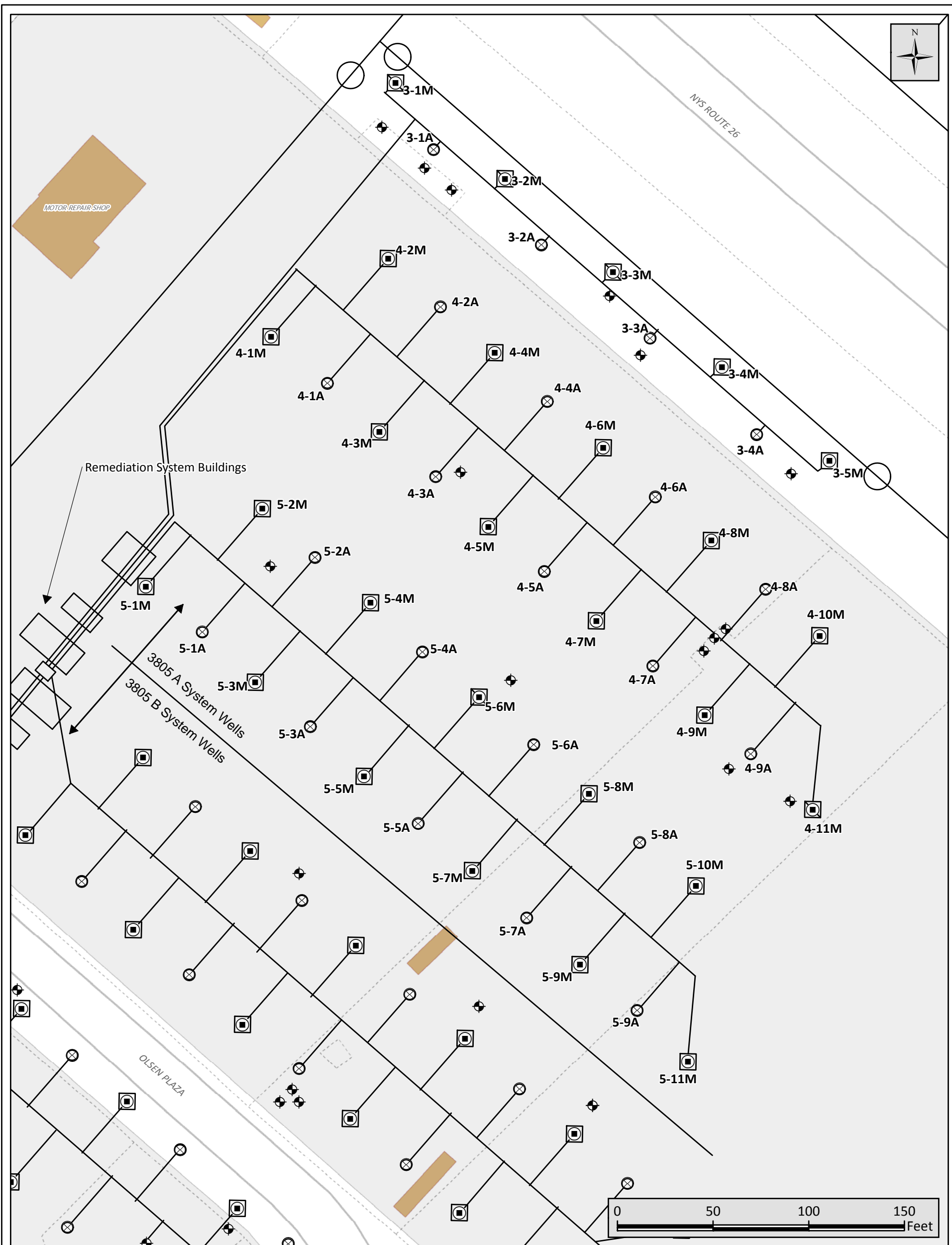
**FIGURE 2-5**

**Area 1795  
AAS (Systems A,B, and C)  
Gasoline Alley**

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**Legend**

- ⊗ Air Sparge Wells
- ⊠ Multi-phase Extraction Wells
- Soil-vapor Extraction Wells
- System Pipes & Structures
- ⊕ Monitoring Wells
- Former UST
- - - Fence Line
- Rail Road
- Paved Road
- Building
- Paved Area

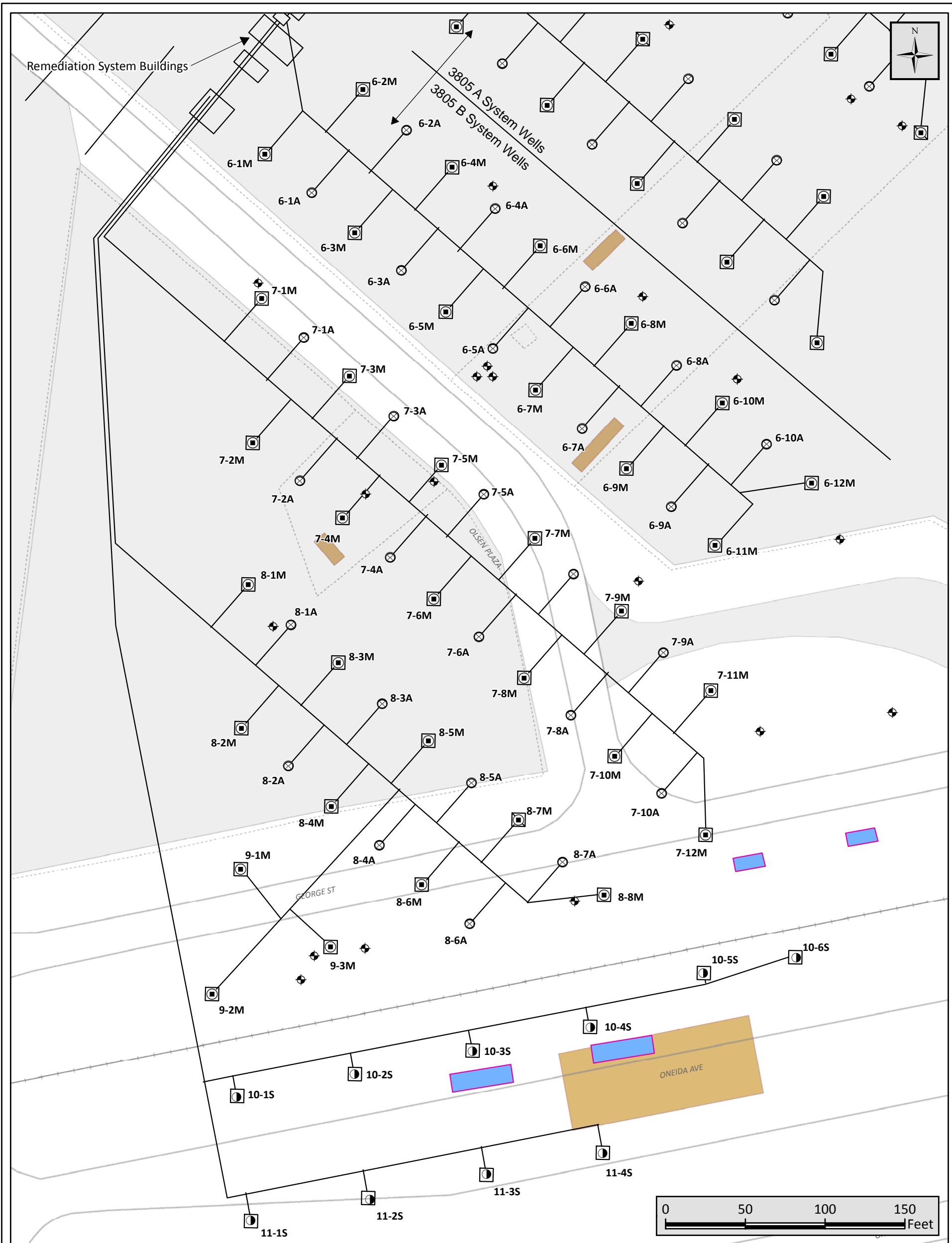

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**FIGURE 2-6**


**Area 3805 A, Gasoline Alley**

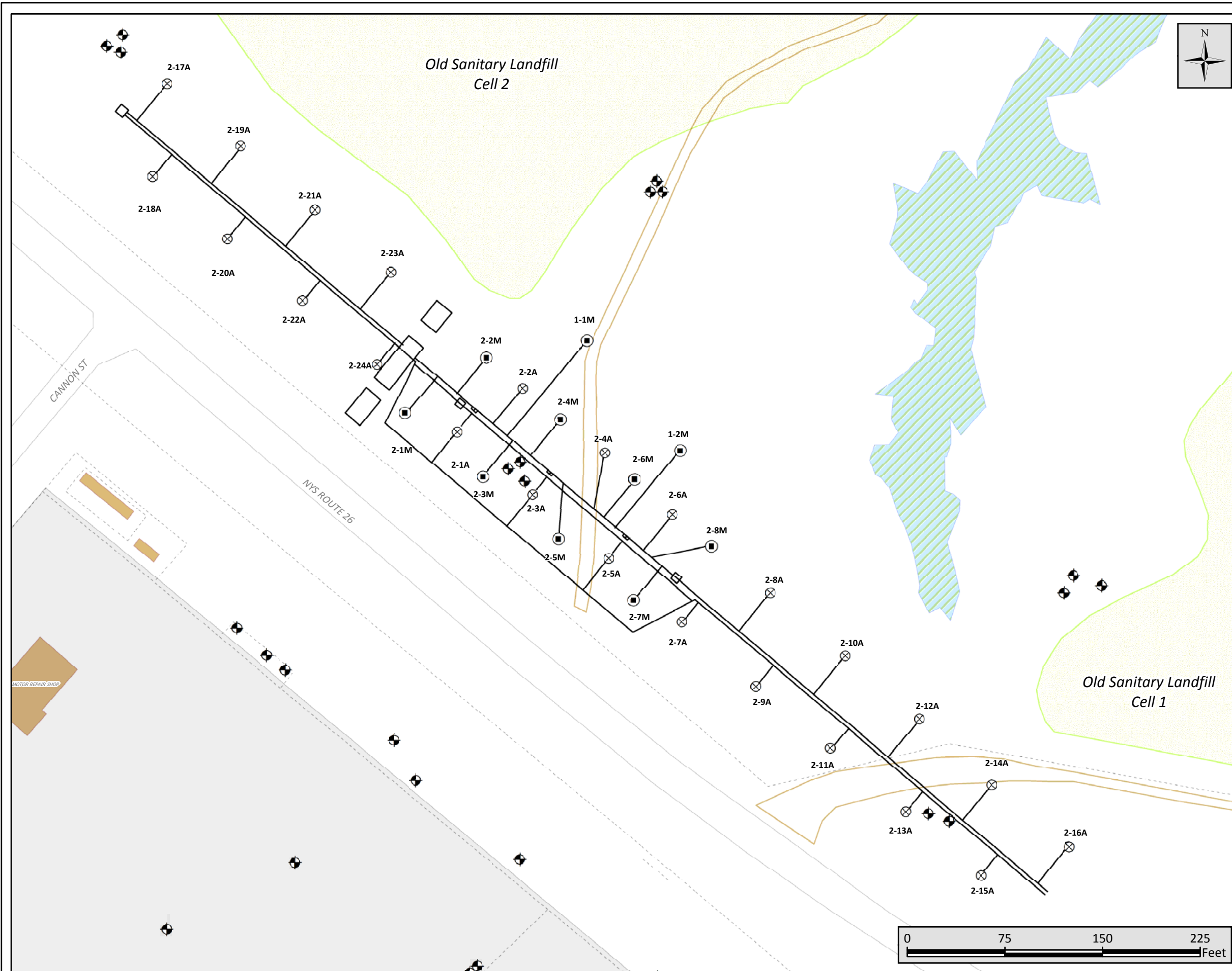
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 Fort Drum, New York



**Legend**

- ⊗ Air Sparge Wells
- ⊙ Multi-phase Extraction Wells
- Soil-vapor Extraction Wells
- System Pipes & Structures
- ◆ Monitoring Wells
- Former UST
- Fence Line
- Rail Road
- Paved Road
- Building
- Paved Area


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Created By: JRC Date: March 2011	<b>FIGURE 2-7</b>	
<b>Area 3805 B, Gasoline Alley</b>		
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**Legend**

- ⊗ Air-Sparge Wells
- ⊕ Multi-Phase Extraction Wells
- System Pipes & Structures
- ⊕ Monitoring Wells
- Former UST
- - - Fence Line
- Rail Road
- Paved Road
- Unpaved Road
- Landfill Site
- ▨ Wetlands
- Building
- Paved Area

Abbreviation Key:  
UST = Underground Storage Tank



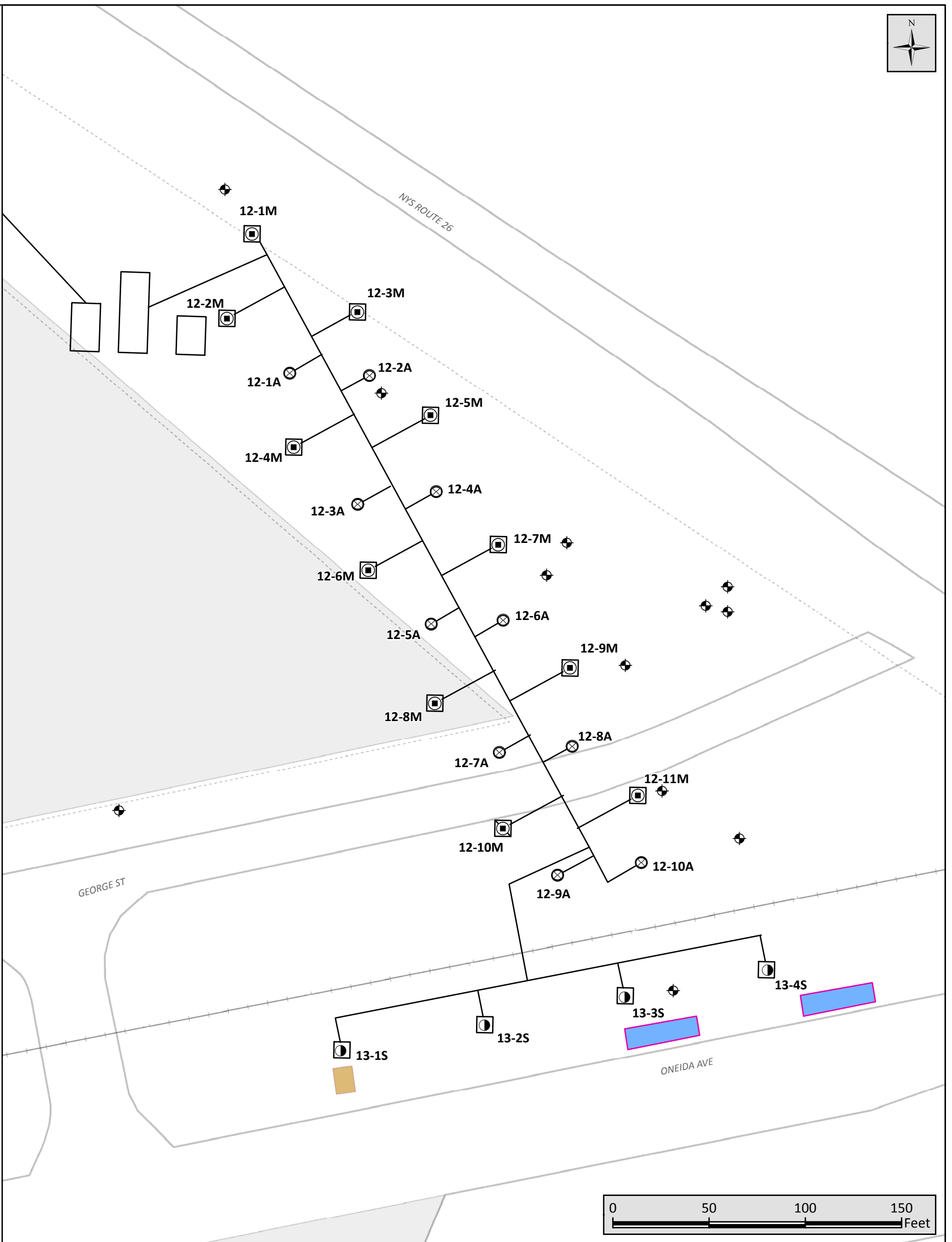
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**FIGURE 2-8**

**Area 3805 C, Gasoline Alley**

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**Legend**

- ⊗ Air Sparge Wells
- ◻ Multi-phase Extraction Wells
- ⊖ Soil-vapor Extraction Wells
- System Pipes & Structures
- ⊕ Monitoring Wells
- ▭ Former UST
- - - Fence Line
- +— Rail Road
- Paved Road
- ▭ Building
- ▭ Paved Area

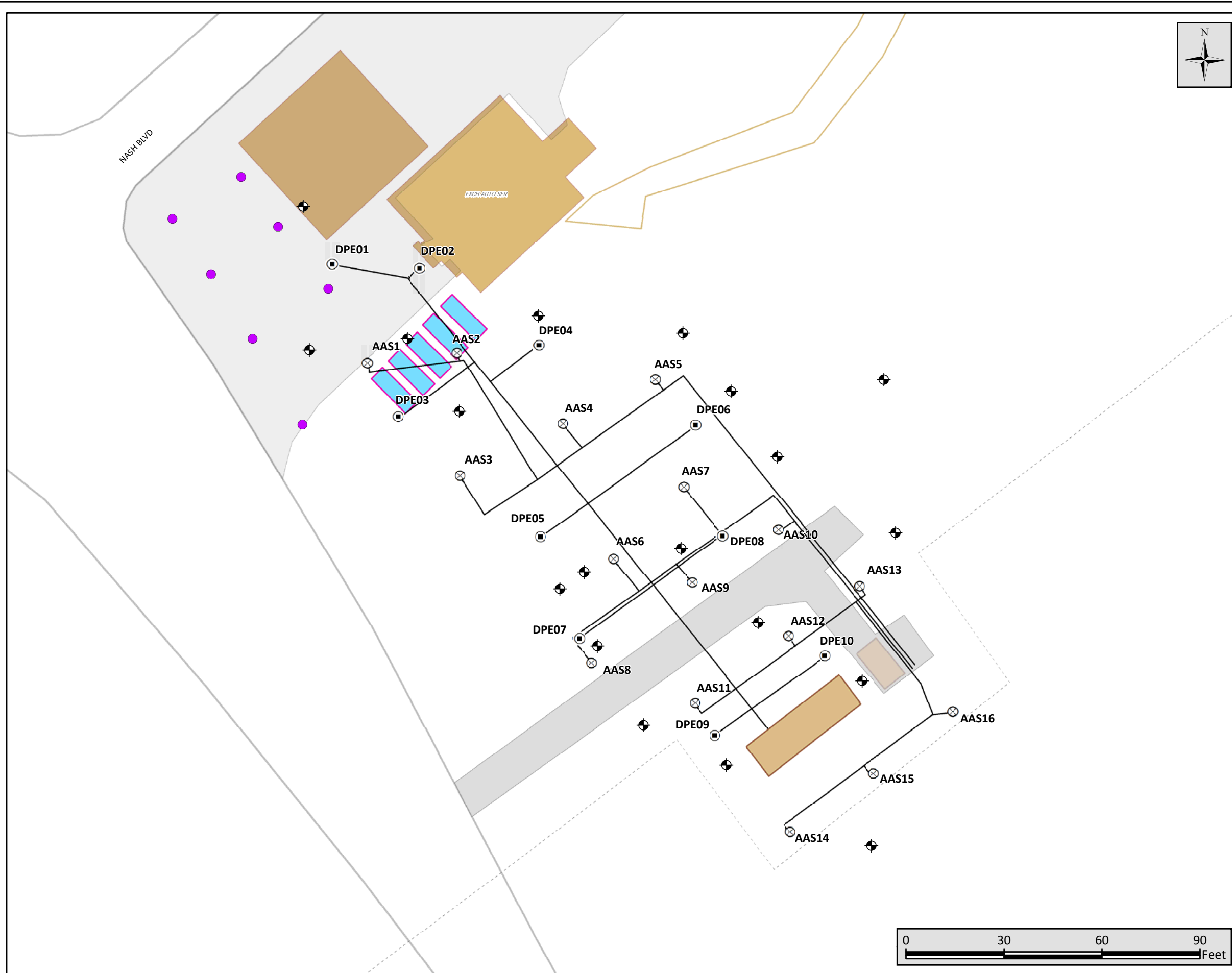

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**FIGURE 2-9**


**Area 3805 D/1995, Gasoline Alley**

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- Legend**
- Ozone Injection Points
  - ⊗ Air Sparge Wells
  - ⊕ Dual-Phase Extraction Wells
  - System Pipes
  - ⊕ Monitoring Wells
  - Former UST
  - - - Fence Line
  - Rail Road
  - Paved Road
  - Unpaved Road
  - Building
  - Paving

Abbreviation Key:  
 UST = Underground Storage Tank



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 (F) 703.845.8568

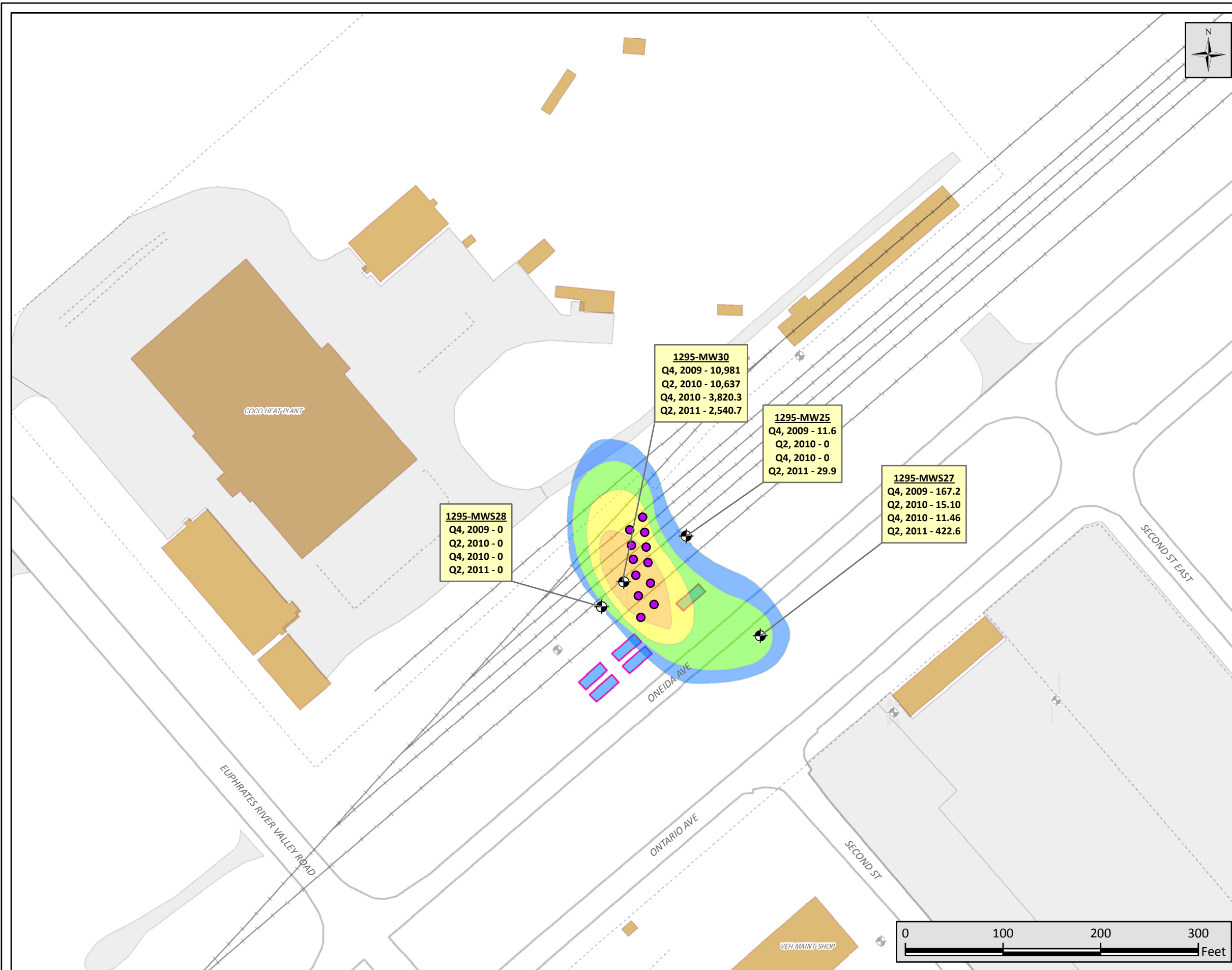
Created By: AES  
 Date: September 2011

**FIGURE 2-10**

**Building P-2140  
 AAFES Station  
 DPE and AAS Systems**

Quarterly Report of Progress (May 2011-July 2011)  
 Operations and Maintenance  
 Remediation Systems for Gasoline Alley  
 and Army Air Force Exchange Service Station  
 Fort Drum, New York





- Legend**
- Ozone Injection Points
  - ⊕ Sampled Wells
  - ⊕ Other Monitoring Wells
  - Former UST
  - - - Fence Line
  - Rail Road
  - Paved Road
  - Building
  - Paved Area

- BTEX Fall 2010 Plume**
- 1 µg/L
  - 10 µg/L
  - 100 µg/L
  - 1,000 µg/L

**1295-MWS28**  
 Q4, 2009 - 0  
 Q2, 2010 - 0  
 Q4, 2010 - 0  
 Q2, 2011 - 0

**1295-MW30**  
 Q4, 2009 - 10,981  
 Q2, 2010 - 10,637  
 Q4, 2010 - 3,820.3  
 Q2, 2011 - 2,540.7

**1295-MW25**  
 Q4, 2009 - 11.6  
 Q2, 2010 - 0  
 Q4, 2010 - 0  
 Q2, 2011 - 29.9

**1295-MWS27**  
 Q4, 2009 - 167.2  
 Q2, 2010 - 15.10  
 Q4, 2010 - 11.46  
 Q2, 2011 - 422.6

Historical Total BTEX Label Key:  
 Result values are expressed in units of  
 micrograms per liter (µg/L)

Location Well ID
Quarter, Year - Total BTEX (µg/L)
Q4, 2008 - 2,000

NS = Not Sampled

**PLEXUS**  
 scientific

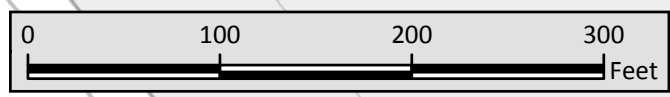
4501 Ford Ave.  
 Suite 1200  
 Alexandria, VA 22302  
 (P) 703.820.3339  
 (F) 703.845.8568

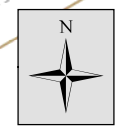
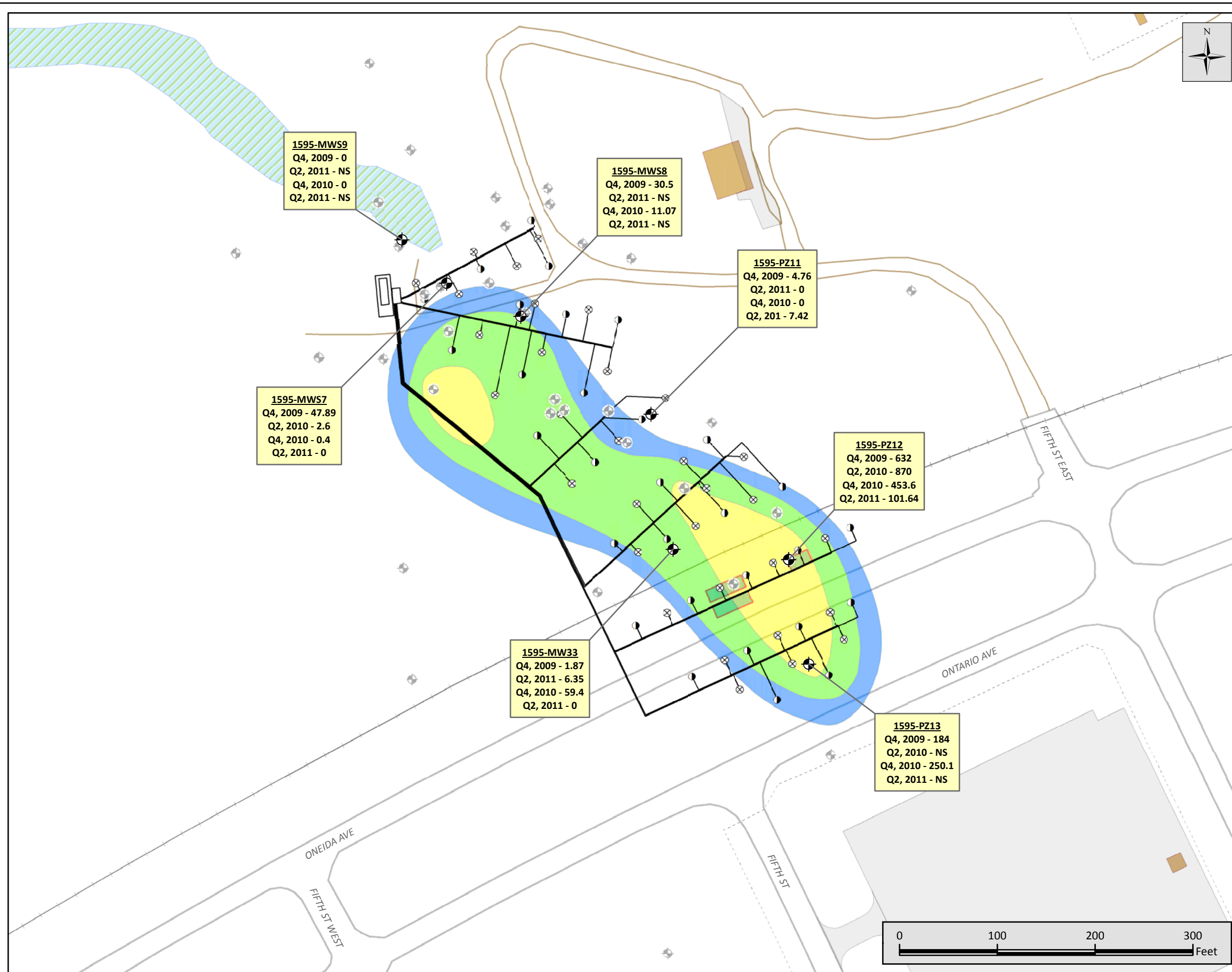
Created By: AES  
 Date: September 2011

**FIGURE 2-11**

**1295 BTEX Comparison**

Quarterly Report of Progress (May 2011-July 2011)  
 Operations and Maintenance  
 Remediation Systems for Gasoline Alley  
 and Army Air Force Exchange Service Station  
 Fort Drum, New York





- Legend**
- ⊕ Sampled Wells
  - ⊕ Other Monitoring Wells
  - ⊗ Air Sparge Wells
  - ⊙ Soil-Vapor Extraction Wells
  - System Pipes
  - █ Former UST
  - - - Fence Line
  - ⊕ Rail Road
  - Paved Road
  - Unpaved Road
  - ▨ Wetlands
  - Building
  - Paved Area
- BTEX Fall 2010 Plume**
- 1 µg/L
  - 10 µg/L
  - 100 µg/L

**1595-MWS9**  
 Q4, 2009 - 0  
 Q2, 2011 - NS  
 Q4, 2010 - 0  
 Q2, 2011 - NS

**1595-MWS8**  
 Q4, 2009 - 30.5  
 Q2, 2011 - NS  
 Q4, 2010 - 11.07  
 Q2, 2011 - NS

**1595-PZ11**  
 Q4, 2009 - 4.76  
 Q2, 2011 - 0  
 Q4, 2010 - 0  
 Q2, 2011 - 7.42

**1595-MWS7**  
 Q4, 2009 - 47.89  
 Q2, 2010 - 2.6  
 Q4, 2010 - 0.4  
 Q2, 2011 - 0

**1595-PZ12**  
 Q4, 2009 - 632  
 Q2, 2010 - 870  
 Q4, 2010 - 453.6  
 Q2, 2011 - 101.64

**1595-MW33**  
 Q4, 2009 - 1.87  
 Q2, 2011 - 6.35  
 Q4, 2010 - 59.4  
 Q2, 2011 - 0

**1595-PZ13**  
 Q4, 2009 - 184  
 Q2, 2010 - NS  
 Q4, 2010 - 250.1  
 Q2, 2011 - NS

Historical Total BTEX Label Key:  
 Result values are expressed in units of  
 micrograms per liter (µg/L)

Location Well ID  
 Quarter, Year - Total BTEX (µg/L)  
 Q4, 2008 - 2,000

NS = Not Sampled

**PLEXUS**  
 scientific

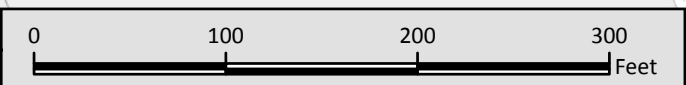
4501 Ford Ave.  
 Suite 1200  
 Alexandria, VA 22302  
 (P) 703.820.3339  
 (F) 703.845.8568

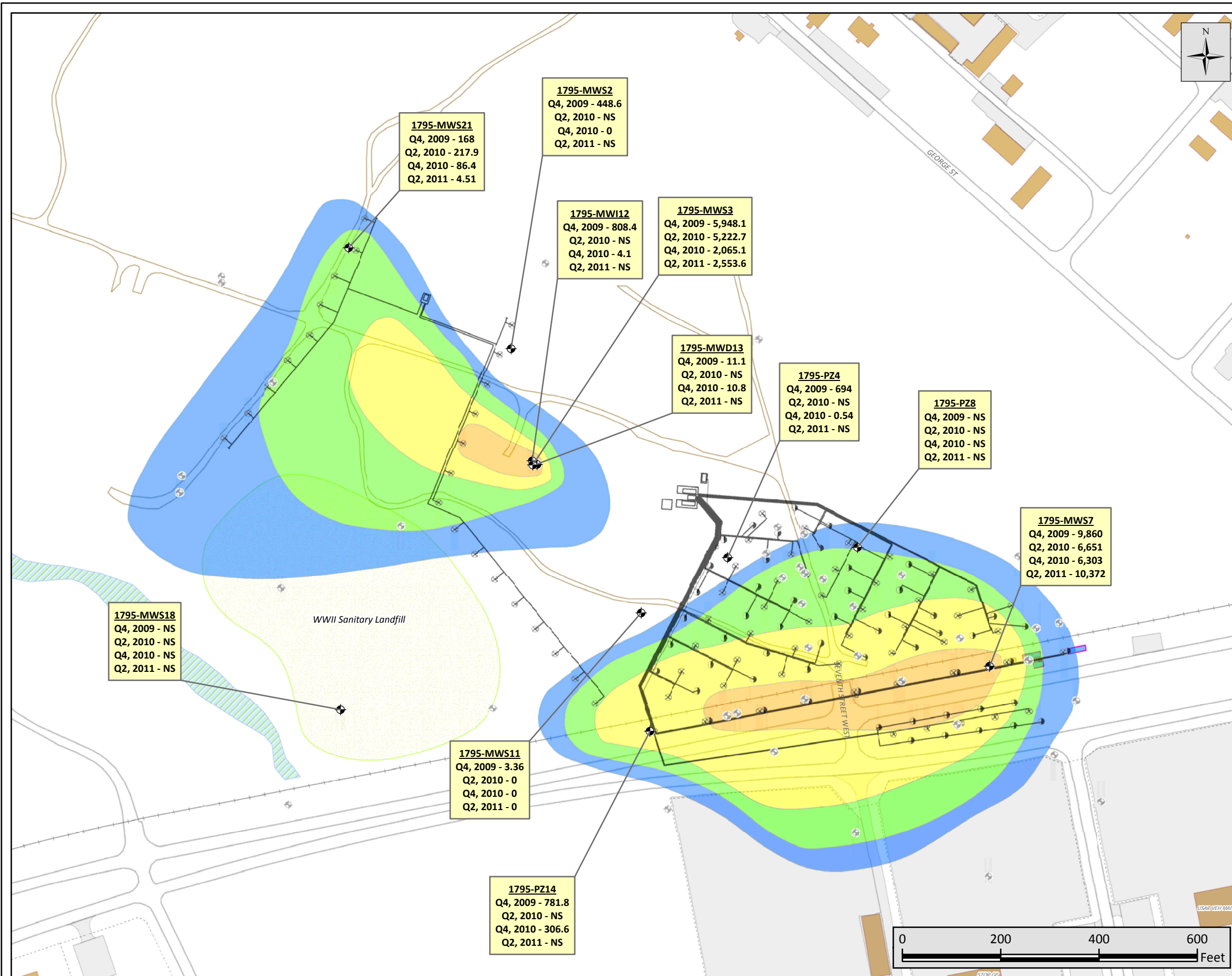
Created By: AES  
 Date: September 2011

**FIGURE 2-12**

**1595 BTEX Comparison**

Quarterly Report of Progress (May 2011-July 2011)  
 Operations and Maintenance  
 Remediation Systems for Gasoline Alley  
 and Army Air Force Exchange Service Station  
 Fort Drum, New York





### Legend

- ◆ Sample Locations
- ◇ Other Monitoring Wells
- ⊙ Airsparge Wells
- ⊙ Soil-Vapor Extraction
- System Pipes
- Former UST
- - - Fence Line
- Rail Road
- Paved Road
- Unpaved Road
- Landfill Site
- Wetlands
- Building
- Paved Area

**BTEX Fall 2010 Plume**

- 1 µg/L
- 10 µg/L
- 100 µg/L
- 1,000 µg/L

Historical Total BTEX Label Key:  
Result values are expressed in units of micrograms per liter (µg/L)

**Location Well ID**

Quarter, Year - Total BTEX (µg/L)

Q4, 2008 - 2,000

NS = Not Sampled

4501 Ford Ave.  
Suite 1200  
Alexandria, VA 22302  
(P) 703.820.3339  
(F) 703.845.8568

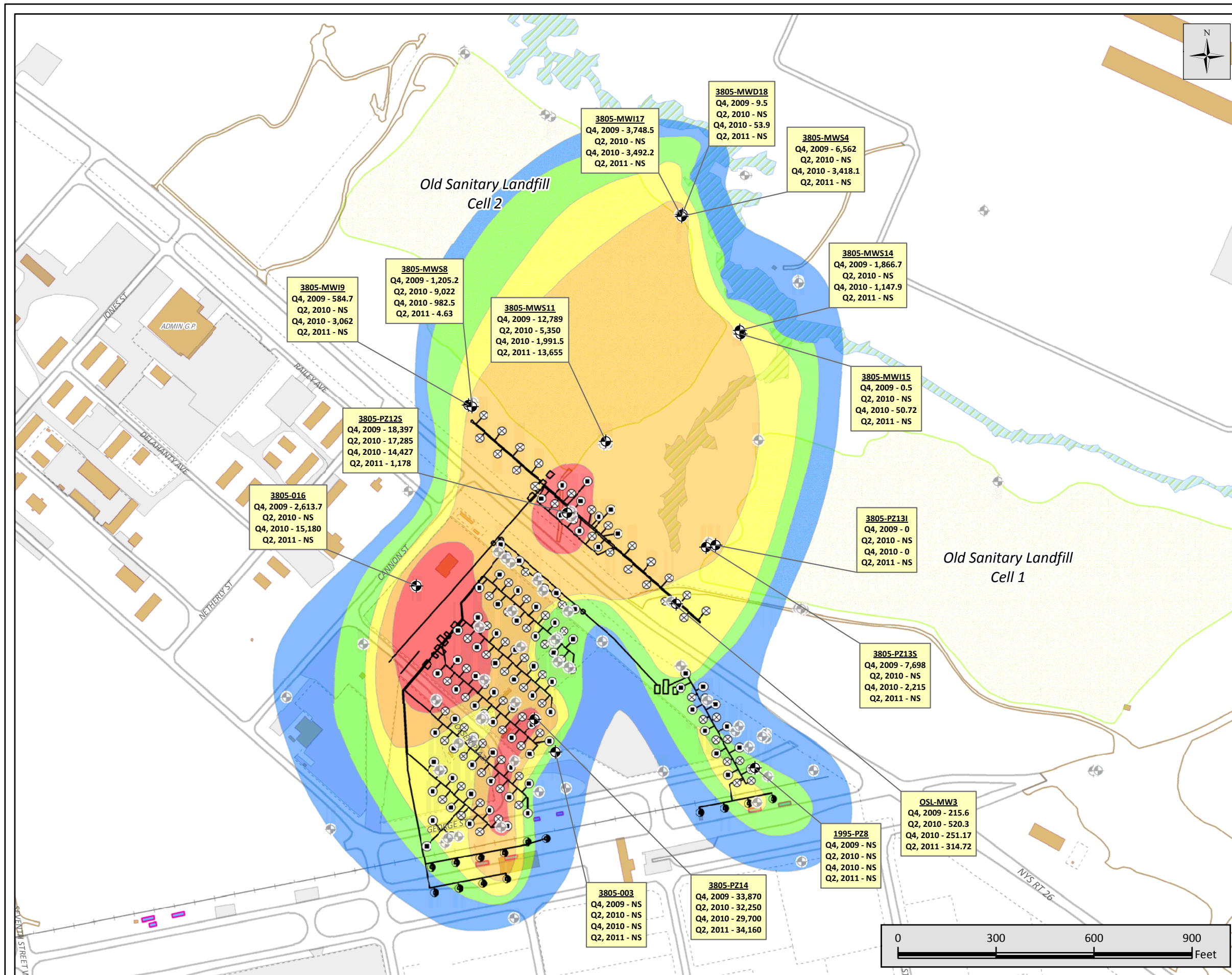
Created By: AES  
Date: September 2011

**FIGURE 2-13**

## 1795 BTEX Comparison

Quarterly Report of Progress (May 2011-July 2011)  
Operations and Maintenance  
Remediation Systems for Gasoline Alley  
and Army Air Force Exchange Service Station  
Fort Drum, New York





### Legend

- ⊕ Sampled Wells
- ⊕ Other Monitoring Wells
- System Pipes & Structures
- ⊗ Air Sparge Wells
- ⊙ Multi-Phase Extraction Wells
- ⊙ Soil-Vapor Extraction Wells

**BTEX Fall 2010 Plume**

- 1 µg/L
- 10 µg/L
- 100 µg/L
- 1,000 µg/L
- 10,000 µg/L

- Former UST
- Fence Line
- Rail Road
- Paved Road
- Unpaved Road
- Landfill
- Wetlands
- Building
- Paved Area

Historical Total BTEX Label Key:  
Result values are expressed in units of micrograms per liter (µg/L)

Location Well ID

Quarter, Year - Total BTEX (µg/L)

Q4, 2008 - 2,000

NS = Not Sampled

4501 Ford Ave.  
Suite 1200  
Alexandria, VA 22302  
(P) 703.820.3339  
(F) 703.845.8568

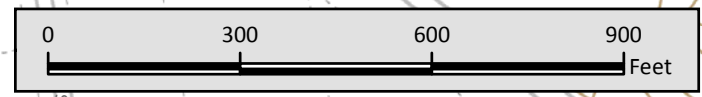
**PLEXUS**  
scientific

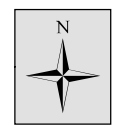
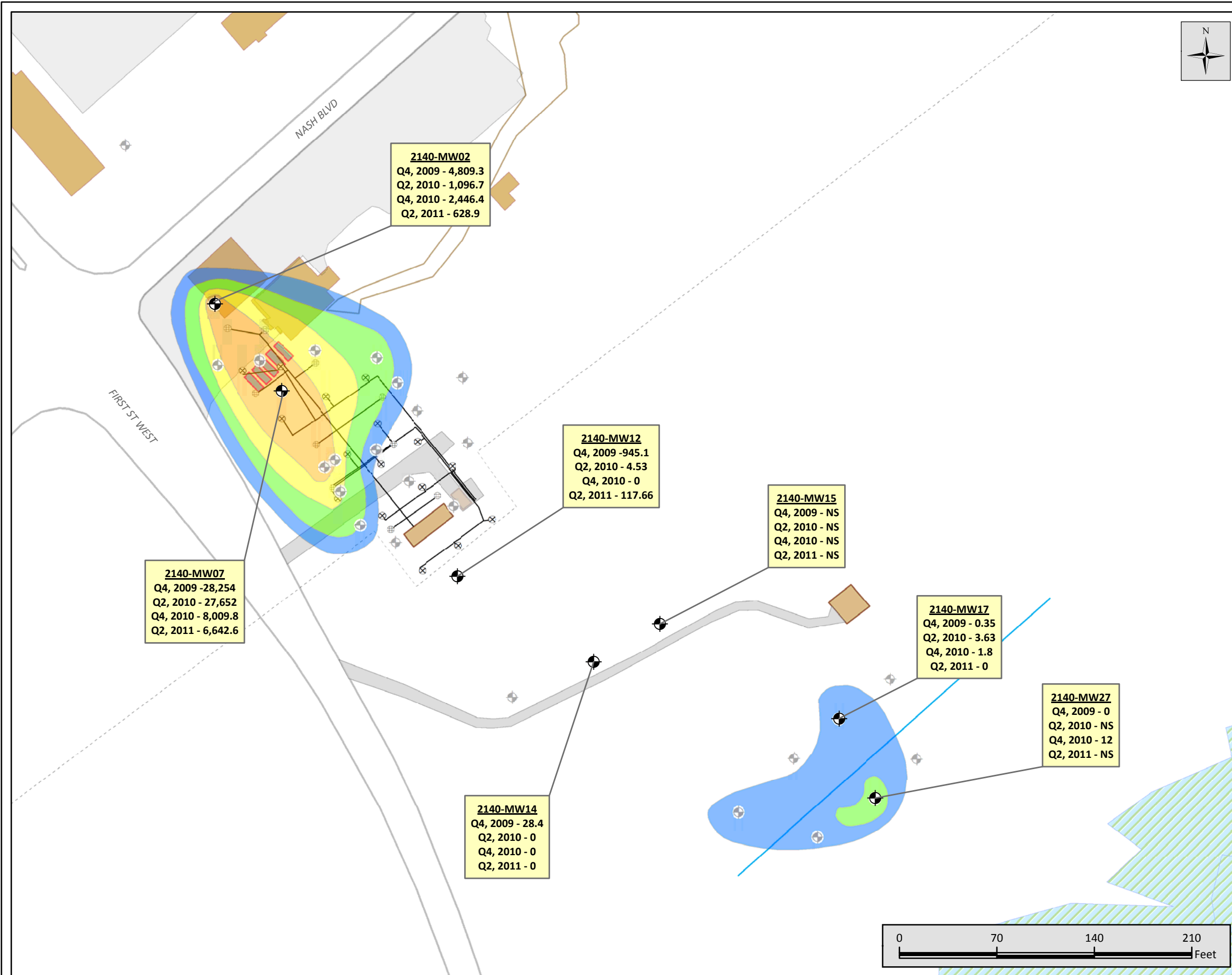
Created By: AES  
Date: September 2011

**FIGURE 2-14**

**3805/1995 BTEX Comparison**

Quarterly Report of Progress (May 2011-July 2011)  
Operations and Maintenance  
Remediation Systems for Gasoline Alley  
and Army Air Force Exchange Service Station  
Fort Drum, New York





**Legend**

- ⊕ Sampled Wells
  - ⊕ Other Monitoring Wells
  - ⊗ Airsparge Wells
  - ⊕ MPE Wells
  - System Pipes
  - Ozone Sparging Lines
  - █ Former UST
  - - - Fence Line
  - ⊕ Rail Road
  - Unpaved Road
  - Paved Road
  - ▨ Wetlands
  - █ Building
  - █ Paved Area
- BTEX Fall 2010 Plume**
- █ 1 µg/L
  - █ 10 µg/L
  - █ 100 µg/L
  - █ 1,000 µg/L

Historical Total BTEX Label Key:  
Result values are expressed in units of micrograms per liter (µg/L)

Location Well ID	Quarter, Year - Total BTEX (µg/L)
2140-MW02	Q4, 2009 - 4,809.3 Q2, 2010 - 1,096.7 Q4, 2010 - 2,446.4 Q2, 2011 - 628.9
2140-MW12	Q4, 2009 - 945.1 Q2, 2010 - 4.53 Q4, 2010 - 0 Q2, 2011 - 117.66
2140-MW15	Q4, 2009 - NS Q2, 2010 - NS Q4, 2010 - NS Q2, 2011 - NS
2140-MW17	Q4, 2009 - 0.35 Q2, 2010 - 3.63 Q4, 2010 - 1.8 Q2, 2011 - 0
2140-MW27	Q4, 2009 - 0 Q2, 2010 - NS Q4, 2010 - 12 Q2, 2011 - NS
2140-MW07	Q4, 2009 - 28,254 Q2, 2010 - 27,652 Q4, 2010 - 8,009.8 Q2, 2011 - 6,642.6
2140-MW14	Q4, 2009 - 28.4 Q2, 2010 - 0 Q4, 2010 - 0 Q2, 2011 - 0

NS = Not Sampled

4501 Ford Ave.  
Suite 1200  
Alexandria, VA 22302  
(P) 703.820.3339  
(F) 703.845.8568

Created By: AES  
Date: September 2011

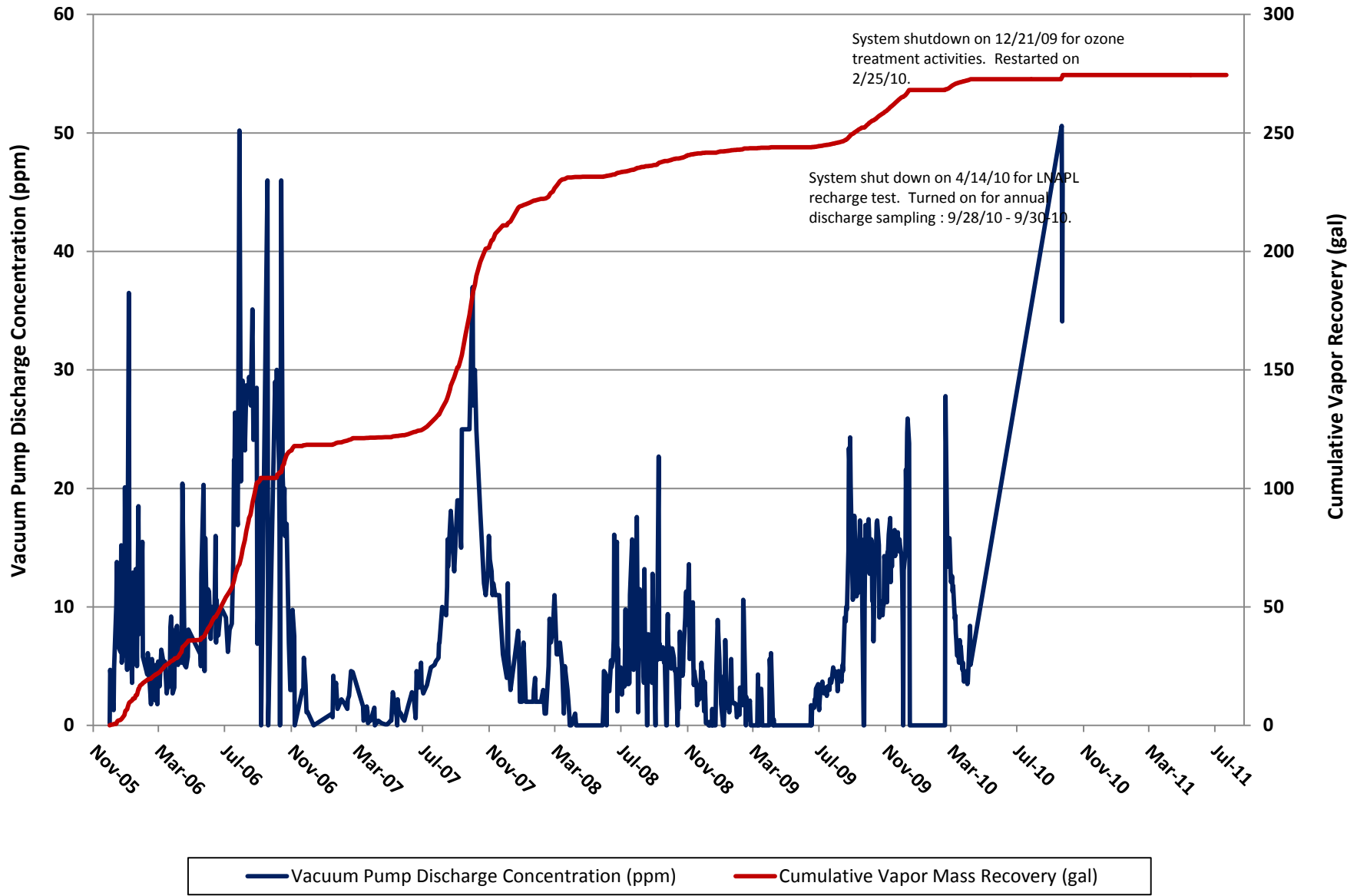
**FIGURE 2-15**

**2140 BTEX Comparison**

Quarterly Report of Progress (May 2011-July 2011)  
Operations and Maintenance  
Remediation Systems for Gasoline Alley  
and Army Air Force Exchange Service Station  
Fort Drum, New York

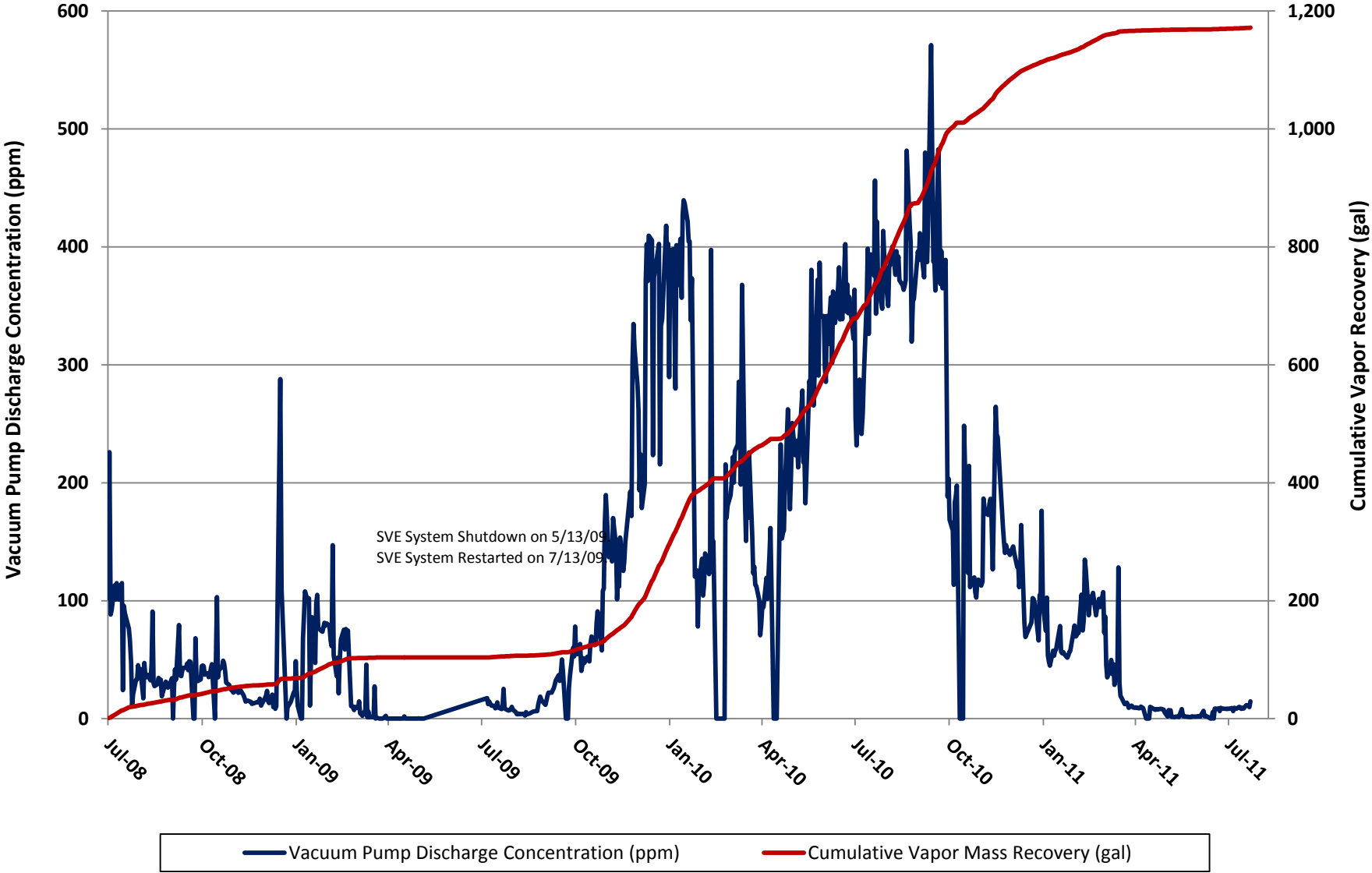
### Figure 3-1: Area 1595

#### Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery



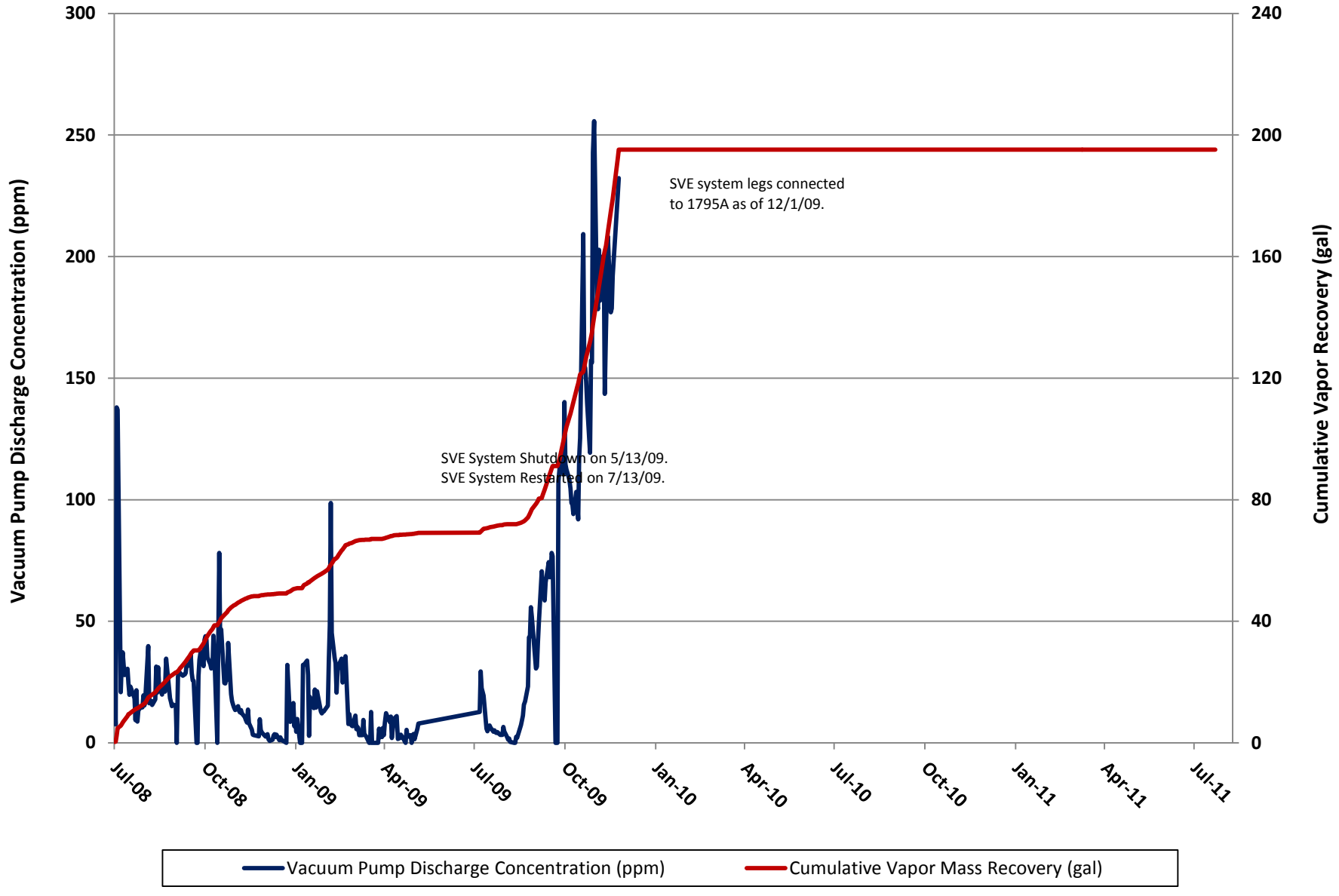
### Figure 3-2A: Area 1795 - System A

Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery



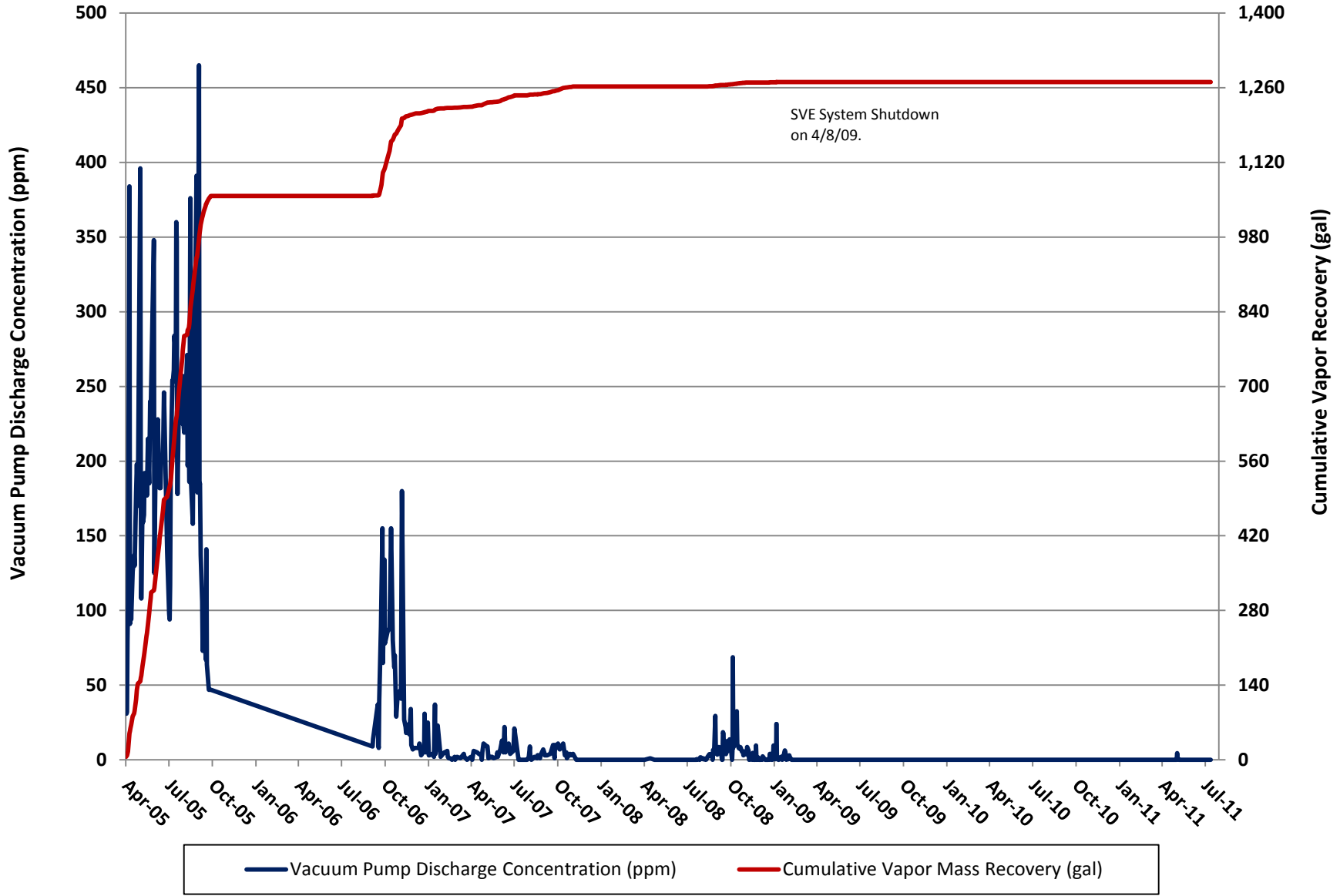
# Figure 3-2B: Area 1795 - System B

## Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery



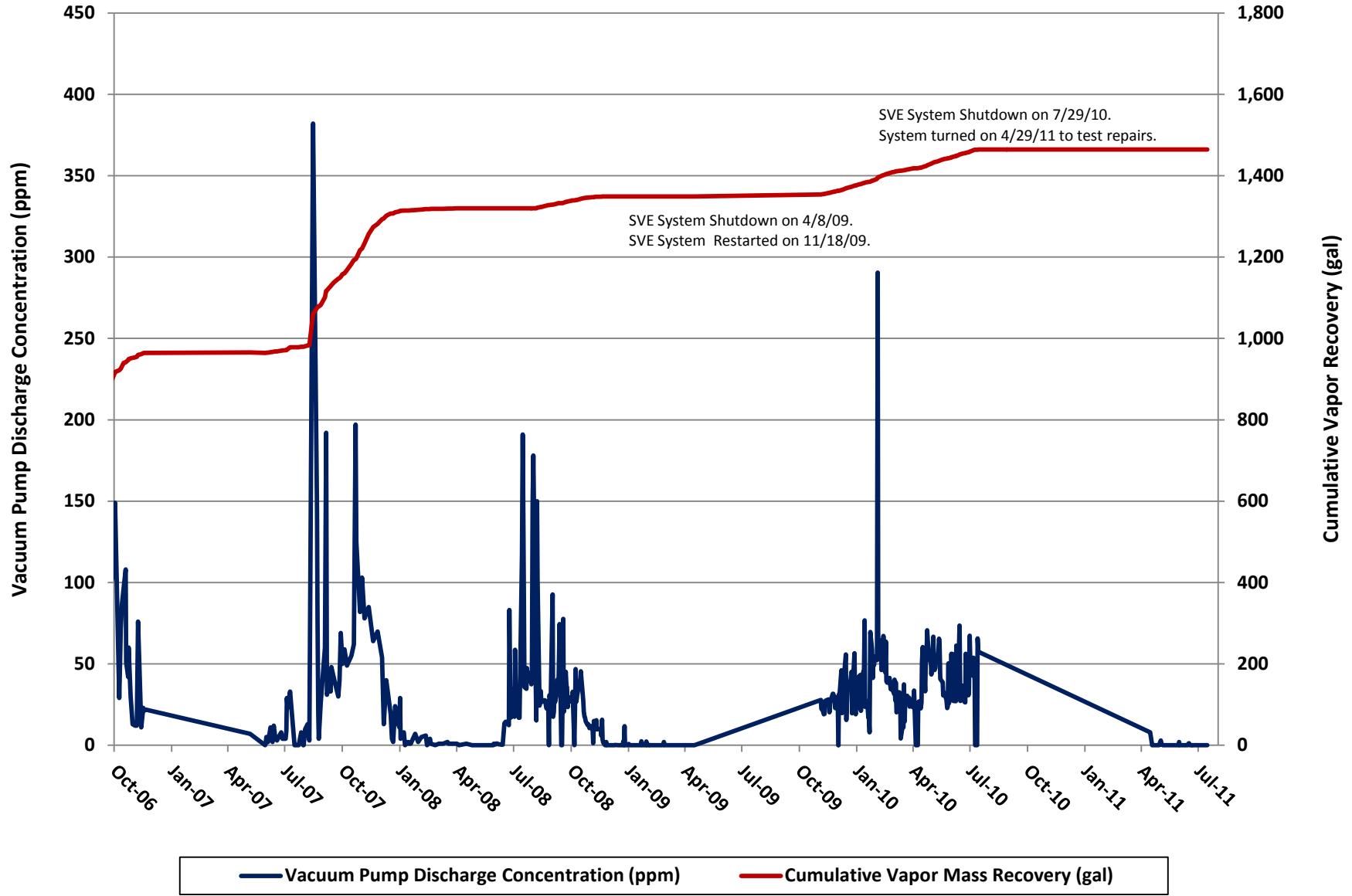
# Figure 3-3A: Area 3805 - System A

## Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery



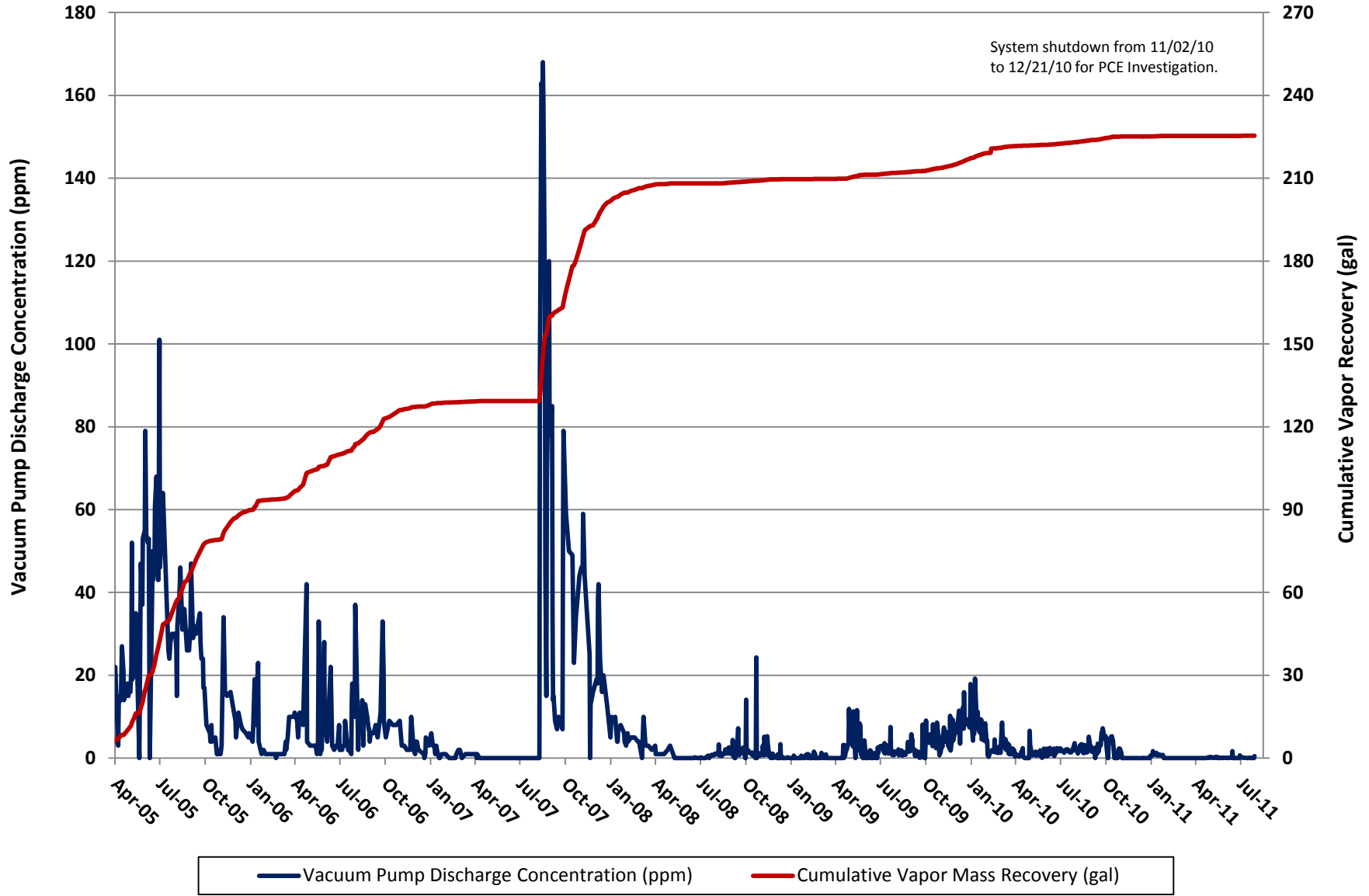
# Figure 3-3B: Area 3805 - System B

## Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery



### Figure 3-3C: Area 3805 - System C

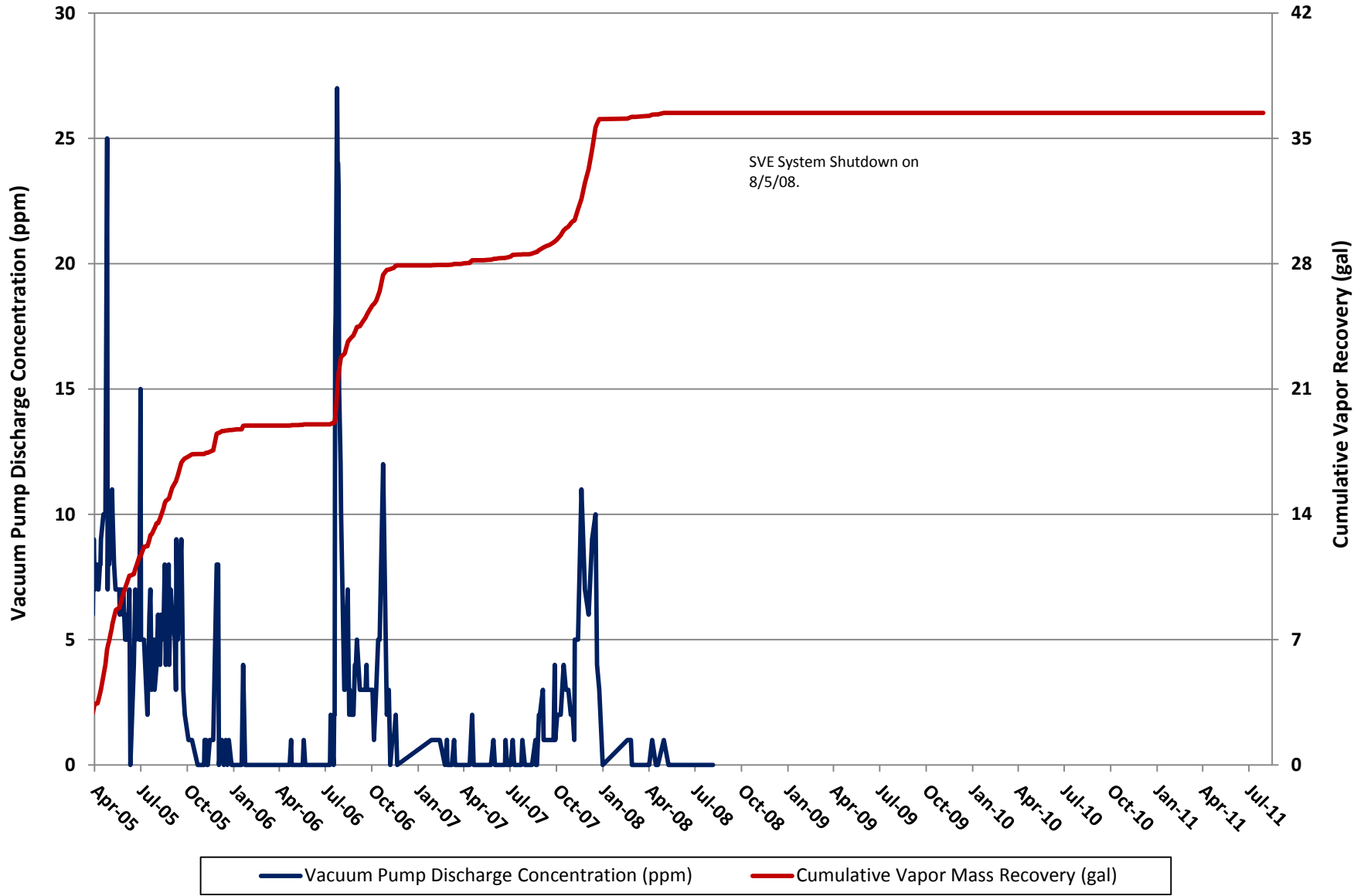
Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery





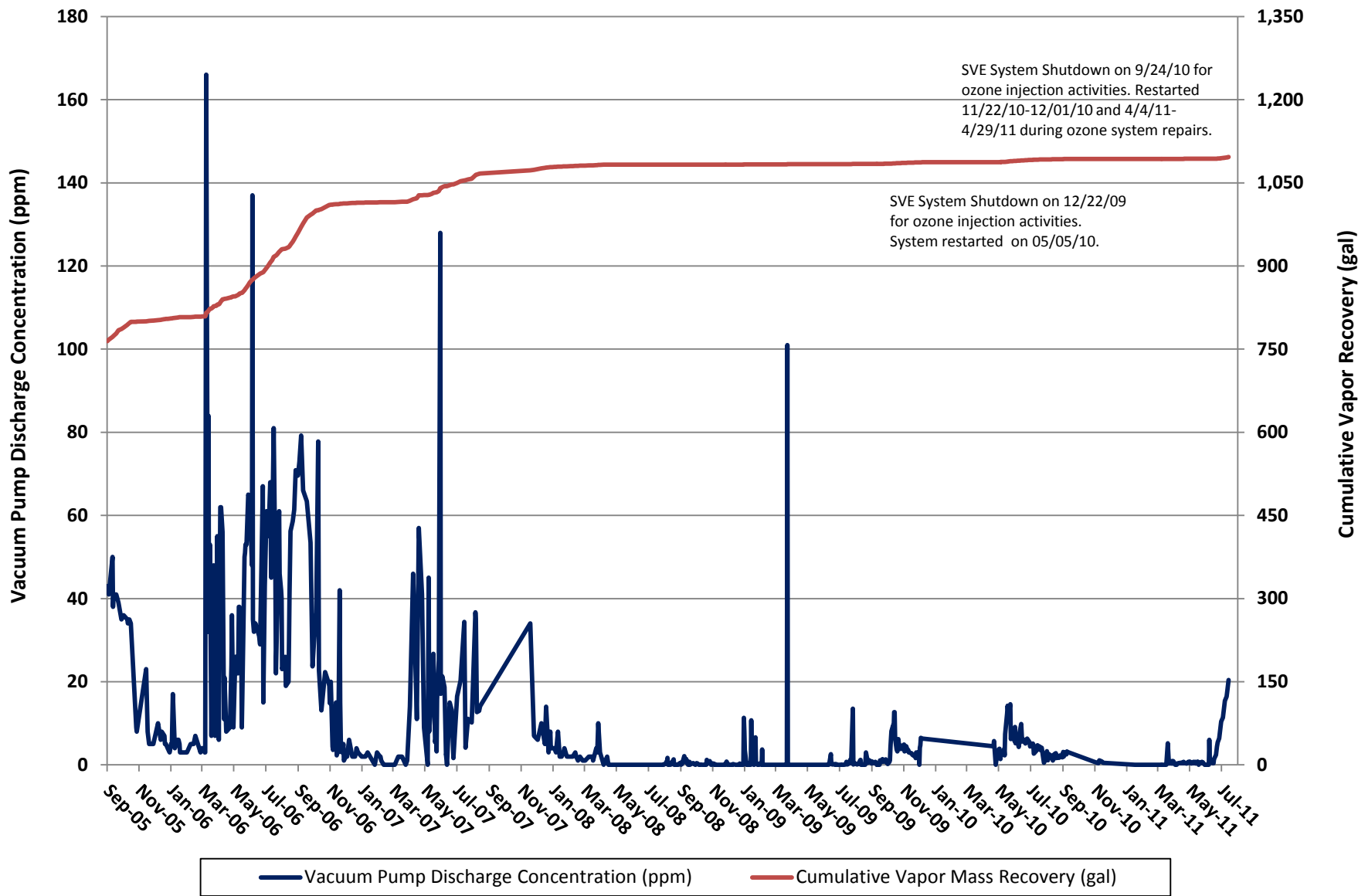
### Figure 3-3D: Area 3805 - System D

Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery



### Figure 3-4: AAFES (Building P-2140)

Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery



## TABLES

**TABLE 3-1  
SUMMARY OF DO/ORP/PID DATA  
AREA 1295**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
1295-MW30	3/15/2011	15:21	15:26	12.16	7.58	5.98	0.686	-119.0	1.36	3.1	
	4/14/2011	14:50	14:55	9.69	7.87	4.78	1.095	-363.0	1.85	195.3	AEC ozone trailer running
	5/18/2011	12:33	12:38	8.58	9.11	5.94	0.772	-182.4	2.54	46.2	
	6/15/2011	8:43	8:48	9.28	12.60	4.21	3.128	209.6	1.11	1.6	Trailer off at sample time
	7/11/2011	13:37	13:42	9.60	13.98	5.99	4.528	-320.5	2.65	1.9	

**Notes:**

NR = Not Recorded

DTW = Depth to Water (feet)

Temp = Temperature (degrees Fahrenheit)

ORP = Oxidation Reduction Potential

mV = Millivolts

DO = Dissolved Oxygen (milligrams per liter)

PID = Photoionization Detector

ppm = Parts Per Million

**TABLE 3-2  
SUMMARY OF ESTIMATED CONTAMINANT REMOVAL  
AREA 1595**

<b>Monitoring Date</b>	<b>Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)</b>	<b>Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)</b>	<b>LNAPL Recovery (gal)</b>
<b>May</b>	0.00	0.00	0
<b>June</b>	0.00	0.00	0
<b>July</b>	0.00	0.00	0
<b>Quarter Total</b>	0.00	0.00	0
<b>Total to Date</b>	1,768.37	281.59	156.06

Notes:

Area 1595 SVE system shutdown for LNAPL recharge test as of April 14, 2010.

lb = pounds

gal = gallons

**TABLE 3-3  
CUMULATIVE VOLUME OF TREATED GROUNDWATER  
AREA 1595**

<b>Description</b>	<b>May</b>	<b>June</b>	<b>July</b>	<b>Total/Average</b>
<b>Gallons</b>	0	0	0	NA
<b>Hours Operated</b>	0	0	0	NA
<b>Days Operated</b>	0	0	0	NA
<b>Average (gal/min)</b>	NA	NA	NA	NA

Note: Area 1595 SVE system shutdown for LNAPL recharge test as of April 14, 2010.

**TABLE 3-3  
SUMMARY OF DO/ORP/PID DATA  
AREA 1595**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
1595-MW33A	12/16/2008	NR	NR	NR	NR	NR	NR	70.2	10.64	0.0	
	1/13/2009	9:17	9:48	12.12	10.46	7.06	3.085	2.9	0.52	0.0	
	1/20/2009	10:18	10:29	12.36	8.30	7.80	0.430	-46.5	11.85	0.0	
	2/5/2009	10:46	11:03	13.12	9.24	7.17	1.167	-8.5	0.76	0.0	
	3/4/2009	9:13	9:53	12.69	8.74	7.42	0.400	53.7	8.19	0.0	
	3/25/2009	15:28	16:10	12.36	7.88	7.01	0.759	53.1	9.44	0.0	
	4/13/2009	13:43	13:48	12.12	8.36	8.06	0.326	169.0	9.83	0.00	
	5/19/2009	9:20	9:25	12.19	9.28	7.76	0.805	167.9	10.50	0.00	
	6/24/2009	12:37	12:42	12.64	12.40	6.84	0.822	166.4	1.96	0.00	
	7/30/2009	10:01	10:09	13.61	12.23	7.47	0.517	39.2	7.81	0.0	
	8/28/2009	10:11	10:16	11.09	12.34	6.35	1.775	17.5	1.49	0.0	
	9/16/2009	9:57	10:02	14.88	12.62	7.61	1.915	72.5	7.93	0.0	
	10/13/2009	10:11	10:16	15.16	11.93	7.58	0.755	122.1	8.39	0.0	
	11/11/2009	10:16	10:21	15.31	12.44	2.17	1.704	7.0	13.13	0.0	
	12/16/2009	11:36	11:41	15.61	10.74	7.43	2.005	-14.0	8.38	0.00	
	1/15/2010	9:50	9:55	15.82	10.28	7.37	2.333	56.4	7.47	0.0	
	2/8/2010	15:15	15:20	15.31	8.48	7.27	1.112	3.0	9.46	0.0	
	3/9/2010	13:29	13:34	15.88	9.51	7.70	0.722	-64.3	9.72	0.0	
	4/13/2010	14:16	14:21	15.18	9.22	7.34	2.115	71.9	10.33	0.0	
	5/11/2010	13:42	13:47	15.58	9.14	7.55	1.838	-8.6	9.21	0.0	
	6/15/2010	14:12	14:17	15.91	10.66	7.51	0.613	-43.2	10.95	0.0	
	7/13/2010	14:17	14:22	15.78	11.70	7.63	0.589	-3.7	11.23	0.0	
	8/10/2010	13:30	13:35	16.52	13.83	7.59	2.100	0.5	9.18	0.0	
	9/14/2010	11:15	11:20	15.86	12.85	6.74	2.391	9.9	7.78	2.0	
	10/12/2010	13:32	13:37	14.44	14.38	7.12	0.308	-30.1	9.12	0.0	
	11/15/2010	11:40	11:45	14.59	13.37	6.84	0.497	54.8	9.94	0.0	
	12/15/2010	9:45	9:50	13.67	11.00	7.02	0.269	-143.8	4.02	0.0	
1/14/2011	8:26	8:31	13.94	9.76	7.48	0.723	41.7	10.39	0.0		
2/14/2011	8:54	8:59	14.77	9.71	6.99	3.741	92.7	8.64	0.0		
3/15/2011	9:34	9:39	12.34	8.47	7.12	0.833	-149.3	8.08	0.0		
4/14/2011	14:01	14:06	12.73	8.54	7.03	2.984	-321.5	7.12	0.0		
5/18/2011	11:30	11:35	11.36	8.50	7.85	0.312	-217.7	12.01	0.0		
6/13/2011	10:40	10:45	11.71	9.89	7.14	0.330	-72.8	7.13	0.0		
7/11/2011	12:43	12:48	12.34	12.19	7.46	0.037	-299.2	6.05	0.0		
1595-MW35	12/16/2008	NR	NR	NR	NR	NR	NR	285.8	10.87	0.0	
	1/13/2009	10:06	10:37	11.25	9.65	6.91	0.481	33.7	0.83	0.0	
	1/20/2009	8:20	8:35	11.55	8.90	7.55	0.413	76.8	12.11	0.0	
	2/5/2009	11:50	12:21	12.18	9.76	6.98	0.382	8.8	1.00	0.3	
	3/4/2009	10:11	10:39	11.6	8.05	7.14	0.255	86.8	10.71	0.0	
	3/25/2009	15:12	15:49	11.27	7.42	6.56	0.282	26.5	10.79	0.0	
	4/13/2009	14:51	14:56	11.54	7.40	6.98	0.420	184.3	14.43	0.0	Well bubbling
	5/19/2009	10:55	11:00	11.14	8.38	7.44	0.194	142.7	16.07	0.0	
	6/24/2009	13:57	14:02	11.64	9.60	7.13	0.423	34.7	12.74	0.0	
	7/30/2009	10:23	10:28	12.62	10.58	7.08	0.756	36.1	10.33	0.0	
	8/28/2009	10:46	10:51	13.32	12.90	6.72	0.408	101.5	12.48	0.0	
	9/16/2009	10:14	10:19	13.95	12.44	7.22	0.727	15.7	10.48	0.0	
	10/13/2009	10:37	10:42	14.36	12.20	7.06	0.591	23.4	9.56	0.0	
	11/11/2009	10:41	10:46	14.56	12.13	6.94	0.517	-12.6	10.06	0.0	
	12/16/2009	11:10	11:15	14.71	10.94	7.26	0.467	14.7	12.12	0.00	Well bubbling
	1/15/2010	10:00	10:05	15.03	10.30	7.45	0.531	44.9	9.85	0.0	
	2/8/2010	14:53	14:58	14.67	9.50	6.90	0.463	-11.9	10.74	0.2	
	3/9/2010	13:16	13:21	14.99	9.40	6.99	0.565	-17.5	11.23	0.0	
	4/13/2010	14:07	14:12	14.42	8.76	6.96	0.659	79.5	11.70	0.0	
	5/11/2010	13:30	13:35	14.94	8.65	7.05	0.741	-16.9	10.80	0.0	
	6/15/2010	13:46	13:51	15.14	9.50	6.97	0.410	-6.5	11.44	0.0	
	7/13/2010	13:50	13:55	14.83	10.18	7.05	0.613	127.4	11.62	0.0	
	8/10/2010	11:00	11:05	14.49	11.13	7.20	0.638	167.0	11.50	0.0	
	9/14/2010	12:27	12:32	14.94	13.23	6.90	0.321	46.8	9.43	0.0	
	10/12/2010	13:04	13:09	13.18	13.24	7.15	0.508	73.0	9.93	0.0	
	11/15/2010	10:58	11:03	13.74	12.89	7.25	0.043	116.7	9.98	0.0	
	12/15/2010	9:00	9:05	12.71	11.62	7.11	0.391	-133.0	3.00	0.0	
1/14/2011	12:45	12:50	13.13	10.56	7.19	0.468	124.7	10.37	0.0		
2/14/2011	8:37	8:42	13.88	9.92	6.80	0.337	56.0	9.86	0.0		
3/15/2011	16:04	16:09	11.57	7.61	7.08	0.471	-129.7	11.85	0.0		
4/14/2011	13:53	13:58	11.75	7.37	6.91	0.407	-317.6	9.62	0.0		
5/18/2011	12:46	12:51	10.01	8.10	6.90	0.358	-206.6	13.21	0.0		
6/13/2011	10:26	10:31	10.34	9.01	6.85	0.514	-78.7	7.28	0.0		
7/11/2011	13:50	13:55	10.97	10.59	7.10	0.619	-295.7	9.89	0.0		
1595-MWS2	12/16/2008	NR	NR	NR	NR	NR	NR	-73.5	1.07	0.0	
	1/13/2009	9:25	9:43	12.2	10.52	6.88	1.384	-81.2	3.57	0.0	
	1/20/2009	8:40	9:00	11.45	8.46	7.02	0.000	6.9	4.53	0.0	
	2/5/2009	11:06	11:32	13.22	10.30	6.78	0.682	58.7	0.13	0.0	
	3/4/2009	9:18	9:37	12.63	9.48	6.68	0.348	-95.1	0.68	0.0	
	3/25/2009	15:40	16:21	12.35	8.42	6.27	0.570	-49.2	1.49	0.0	
4/13/2009	13:53	13:58	12.05	8.87	7.18	0.975	-85.6	2.64	0.0		

**TABLE 3-3  
SUMMARY OF DO/ORP/PID DATA  
AREA 1595**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
	5/19/2009	10:09	10:14	12.28	9.07	6.90	1.826	-130.3	1.64	0.0	
	6/24/2009	13:45	13:50	12.78	11.23	6.81	1.165	-91.4	0.51	1.6	
	7/30/2009	10:14	10:19	13.74	12.40	6.70	1.308	-83.6	1.48	0.0	
	8/28/2009	10:18	10:23	14.43	13.23	6.50	1.935	-70.5	3.96	0.0	
	9/16/2009	10:05	10:10	14.98	12.91	6.70	1.973	22	0.67	0.0	
	10/13/2009	10:23	10:28	15.26	13.72	6.73	1.822	-102.1	1.50	0.0	
	11/11/2009	10:28	10:33	15.34	14.01	6.65	1.673	-120.9	13.68	0.0	
	12/16/2009	11:23	11:28	15.43	12.65	7.06	0.612	-15.7	4.09	0.00	
	1/15/2010	10:12	10:17	15.81	11.44	6.74	0.953	49.1	0.99	1.3	
	2/8/2010	14:45	14:50	15.33	10.22	6.45	1.063	18.5	1.24	0.0	
	3/9/2010	13:02	13:07	15.84	10.22	6.52	2.035	-54.4	4.03	0.0	
	4/13/2010	13:55	14:00	15.25	10.06	6.96	1.682	53.5	3.48	0.0	
	5/11/2010	13:16	13:21	15.73	9.83	6.70	3.646	-57.2	0.44	0.0	
	6/15/2010	14:01	14:06	16.03	11.49	6.42	3.418	-66.8	0.77	0.0	
	7/13/2010	14:06	14:11	15.79	12.63	6.53	6.897	-88.1	2.04	0.9	
	8/10/2010	12:41	12:46	15.46	13.54	6.48	5.770	-86.8	1.36	0.0	
	9/14/2010	11:58	12:03	15.64	13.98	6.47	4.330	-28.1	0.80	3.2	
	10/12/2010	13:20	13:25	14.08	15.74	6.87	1.947	-62.4	0.92	0.2	
	11/15/2010	11:51	11:56	14.61	13.80	6.67	2.016	-72.2	1.34	0.0	
	12/15/2010	9:13	9:18	13.58	12.26	6.81	0.950	-193.3	0.38	0.0	
	1/14/2011	7:53	7:58	14.07	12.42	6.70	6.771	-195.8	0.62	0.0	
	2/14/2011	8:04	8:09	14.84	11.38	6.55	3.078	-135.2	0.44	0.0	
	3/15/2011	8:49	8:54	12.24	10.40	6.33	2.720	-140.7	0.60	0.3	
	4/14/2011	13:45	13:50	12.91	9.65	6.42	4.536	-357.4	-0.64	0.0	
	5/18/2011	12:23	12:28	11.25	9.37	6.89	2.295	-302.3	0.45	0.0	
	6/13/2011	10:18	10:23	11.83	10.68	6.65	3.088	-123.3	0.23	0.0	
	7/11/2011	13:26	13:31	12.32	11.91	6.56	2.403	-360.5	1.78	0.0	
1595-MWS8	12/16/2008	NR	NR	NR	NR	NR	NR	-29.5	0.93	0.0	
	1/13/2009	7:55	8:33	7.06	8.96	6.26	1.126	-39.9	0.17	0.0	
	1/20/2009	9:37	9:51	7.20	7.77	6.82	1.076	35.1	7.64	0.0	
	2/5/2009	9:53	10:39	7.70	9.93	6.64	1.599	2.5	0	0.0	
	3/4/2009	7:29	8:12	7.11	6.87	6.41	0.471	-28	0.73	0.0	
	3/25/2009	14:40	15:22	7.02	7.22	6.10	1.033	18.1	5.88	85.3	
	4/13/2009	14:34	14:39	6.89	8.13	6.78	0.443	-80.9	1.42	38.8	
	5/19/2009	10:23	10:28	7.13	10.28	6.45	0.858	-112.2	1.62	0.0	
	6/24/2009	13:03	13:08	7.51	14.51	6.20	1.093	-55.7	1.69	1.0	
	7/30/2009	9:15	9:20	8.08	16.40	6.29	0.745	-64.7	1.27	0.6	
	8/28/2009	9:56	10:01	8.64	17.33	6.08	0.785	-46.1	1.64	0.0	
	9/16/2009	NR	NR	NR	NR	NR	NR	NR	NR	NR	DTP 8.92 DTW 8.94, 0.02 of LNAPL, no sampling performed
	10/13/2009	NR	NR	NR	NR	NR	NR	NR	NR	NR	DTP 8.93 DTW 8.95, 0.02 of LNAPL, no sampling performed, LNAPL removed using system
	11/11/2009	NR	NR	NR	NR	NR	NR	NR	NR	NR	DTP 9.04 DTW 9.08, 0.02 of LNAPL, no sampling performed, LNAPL removed by bailer
	12/16/2009	NR	NR	NR	NR	NR	NR	NR	NR	NR	DTP 9.01 DTW 9.04, 0.03 of LNAPL, no sampling performed, LNAPL removed by bailer
	1/15/2010	NR	NR	NR	NR	NR	NR	NR	NR	NR	DTP 9.31, DTW 9.33, 0.02 of LNAPL, no sampling performed, LNAPL removed by bailer
	2/8/2010	NR	NR	8.98	NR	NR	NR	NR	NR	NR	DTP 8.86, DTW 8.98, 0.12 of LNAPL, no sampling performed, LNAPL removed by bailer
	3/9/2010	14:55	NR	9.31	NR	NR	NR	NR	NR	NR	DTP, 9.31, DTW 9.33, 0.02 of LNAPL, no sampling performed, LNAPL removed by bailer
	4/13/2010	15:00	NR	8.97	NR	NR	NR	NR	NR	52.80	DTP 8.86, DTW 8.97, 0.11 of LNAPL, no sampling performed, LNAPL removed by bailer
	5/11/2010	14:50	14:55	9.18	10.33	6.24	0.434	-34.3	0.38	212.8	
	6/15/2010	15:07	15:12	9.46	13.01	6.08	0.611	-40.3	1.27	241.80	
	7/13/2010	15:20	15:25	9.38	14.98	6.10	0.307	-10.2	0.92	418.80	
	8/10/2010	11:35	11:40	9.28	14.36	6.26	0.408	55.5	0.56	215.10	
	9/14/2010	14:50	14:55	9.63	15.21	6.31	0.749	15.1	3.50	348.80	Had reading on interface probe. Checked with bailer, no product found. Sampled after all other wells for the day.
	10/12/2010	-	-	8.78						333.40	DTP8.15, DTW 8.78 Not sampled
	11/15/2010	-	-	8.82						379.60	DTP=8.57 DTW =8.82 NOT SAMPLED
	12/15/2010	-	-	8.41						357.20	DTP=7.68 DTW= 8.41 Not sampled
	1/14/2011	-	-	8.27						88.80	DTP=8.24 DTW= 8.27 Not sampled
	2/14/2011	12:32	12:37	5.75	9.18	6.36	0.431	-39.00	1.69	74.70	
	3/15/2011	-	-	7.74							DTP=6.90 DTW=7.74 Not sampled
	4/14/2011	14:38	14:43	7.33	7.62	6.20	0.514	-371.10	2.48	376.20	
	5/18/2011	11:50	11:55	6.29	10.31	6.61	0.721	-274.30	0.95	223.90	
	6/13/2011	11:26	11:31	6.86	13.18	6.38	0.820	-57.50	4.29	284.30	
	7/11/2011	13:02	13:07	7.40	15.57	6.16	0.398	-350.50	2.02	236.60	
1595-MWS9	12/16/2008	NR	NR	NR	NR	NR	NR	251.6	8.03	0.0	
	1/13/2009	7:50	8:31	4.30	9.46	7.61	0.749	160.9	11.25	0.0	
	1/20/2009	9:18	9:34	4.00	8.83	7.86	0.656	4.6	13.18	0.1	
	2/5/2009	9:47	10:11	4.09	9.48	7.49	0.536	81.6	0.96	0.8	



**TABLE 3-3  
SUMMARY OF DO/ORP/PID DATA  
AREA 1595**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
	3/4/2009	7:35	8:20	3.91	9.89	7.44	0.435	61.0	11.92	0.0	
	3/25/2009	14:33	15:02	4.23	8.00	7.16	0.396	2.1	12.05	19.4	
	4/13/2009	14:41	14:46	3.78	8.41	7.84	0.261	8.1	12.43	4.8	
	5/19/2009	10:37	10:42	3.87	9.85	7.48	0.792	134.1	13.02	0.1	
	6/24/2009	13:16	13:21	4.06	15.65	6.81	0.689	19.4	1.95	2.6	
	7/30/2009	9:27	9:32	4.26	15.40	7.00	0.604	75.5	6.88	1.1	
	8/28/2009	9:05	9:10	4.45	16.34	6.83	0.820	119.1	2.36	0.0	
	9/16/2009	9:15	9:20	4.63	14.56	6.95	1.008	206.2	2.06	0.4	
	10/13/2009	9:20	9:25	4.53	12.61	6.94	0.590	127.3	3.92	0.1	
	11/11/2009	9:30	9:35	4.66	11.51	7.12	0.857	47.4	11.56	0.2	
	12/16/2009	13:10	13:15	4.58	10.69	6.96	0.697	45.9	10.83	0.00	
	1/15/2010	9:20	9:25	4.81	8.45	7.34	0.864	53.4	10.35	9.0	
	2/8/2010	13:25	13:30	4.54	7.48	7.17	0.583	9.7	11.85	0.8	
	3/9/2010	15:06	15:11	4.76	7.03	6.88	0.621	5.1	9.80	1.2	
	4/13/2010	15:07	15:12	4.61	8.85	7.19	0.803	106.9	13.51	3.4	
	5/11/2010	14:37	14:42	4.73	10.38	7.10	0.779	-23.9	11.73	3.3	
	6/15/2010	14:55	15:00	4.93	14.35	6.62	0.486	-59.0	7.50	60.0	
	7/13/2010	15:00	15:05	4.89	18.15	7.27	0.288	136.1	9.15	5.8	
	8/10/2010	11:59	12:04	4.87	17.71	7.26	0.322	26.2	8.98	0.9	
	9/14/2010	11:39	11:44	5.05	16.45	7.11	0.429	-25.1	8.86	1.3	
	10/12/2010	14:04	14:09	4.38	14.21	7.25	0.289	0.1	8.49	0.3	
	11/15/2010	11:18	11:23	4.51	11.87	7.47	1.355	139.10	10.89	0.0	
	12/15/2010	10:30	10:35	4.16	8.79	7.47	1.257	-119.90	0.51	1.3	
	1/14/2011	12:07	12:12	4.34	9.62	7.47	1.043	138.30	10.18	0.0	
	2/14/2011	12:24	12:29	4.53	8.89	7.33	0.962	100.20	8.09	0.0	
	3/15/2011	15:51	15:56	3.83	8.65	7.31	0.859	-130.80	10.01	0.3	
	4/14/2011	14:30	14:35	3.93	8.24	7.05	0.652	-342.90	10.86	0.0	
	5/18/2011	11:59	12:04	3.61	11.05	7.45	0.516	-198.30	11.22	1.0	
	6/13/2011	11:16	11:21	3.88	9.45	7.47	0.704	3.20	9.12	0.9	
	7/11/2011	13:10	13:15	4.09	16.01	7.68	0.418	-231.10	9.01	0.0	
1595-OBG2	12/16/2008	NR	NR	10.45	NR	NR	NR	NR	NR	123.0	DTP 10.20', 0.25' LNAPL detected in well. 1595-PZ-10 used as replacement for well.
	1/6/2009	NR	NR	NR	NR	NR	NR	NR	NR	NR	LNAPL detected in well, 2.5", bailer and absorbent pad used to collect LNAPL. 1595-PZ-10 used as replacement for well.
1595-OBG9	12/16/2008	NR	NR	NR	NR	NR	NR	167.4	11.97	0.0	
	1/13/2009	8:42	9:20	7.00	8.02	5.11	0.114	248.6	11.62	0.0	
	1/20/2009	10:38	11:00	6.24	7.83	5.43	0.337	-12.1	2.23	0.9	
	2/5/2009	10:48	11:27	7.89	8.36	6.21	0.109	131.7	0.01	0.1	
	3/4/2009	8:26	9:14	6.83	6.35	5.85	0.065	161.1	11.59	0.0	
	3/25/2009	16:21	17:32	7.04	5.70	5.72	0.073	203.2	11.21	0.0	
	4/13/2009	14:07	14:12	6.64	7.02	6.37	0.050	154.7	13.42	0.0	
	5/19/2009	9:45	9:50	6.96	8.64	6.80	0.104	151.7	13.21	0.0	
	6/24/2009	13:30	13:35	7.68	10.93	5.91	0.126	147.9	9.33	0.0	
	7/30/2009	9:53	9:58	8.58	11.66	5.47	0.497	135.3	7.45	0.0	
	8/28/2009	10:26	10:31	9.23	12.10	5.28	0.716	172.9	11.09	0.0	
	9/16/2009	9:40	9:45	9.86	11.74	5.52	0.742	128.0	6.78	0.0	
	10/13/2009	9:59	10:04	9.87	11.33	5.64	0.579	169.7	7.43	0.0	
	11/11/2009	10:06	10:11	9.96	11.13	5.47	0.393	105.5	8.48	0.0	
	12/16/2009	12:55	13:00	9.86	10.86	5.75	0.246	87.0	10.27	0.00	
	1/15/2010	10:25	10:30	10.36	9.20	6.13	0.272	60.4	8.74	0.9	
	2/8/2010	14:30	14:35	9.79	7.52	5.93	0.134	10.1	13.36	0.0	
	3/9/2010	13:56	14:01	10.24	8.57	5.18	0.138	138.7	12.08	0.6	
	4/13/2010	14:30	14:35	9.88	8.17	5.44	0.113	93.3	12.18	1.1	
	5/11/2010	14:03	14:08	10.24	8.60	5.46	0.148	112.9	10.74	0.0	
	6/15/2010	14:34	13:39	10.56	10.71	5.14	0.127	-3.0	11.94	0.3	
	7/13/2010	14:22	14:27	10.31	11.78	5.97	0.138	140.6	10.70	0.1	
	8/10/2010	12:54	12:59	10.16	12.89	6.44	0.165	124.8	10.67	0.0	
	9/14/2010	12:14	12:19	10.57	13.14	6.12	0.264	-15.5	8.75	0.0	
	10/12/2010	13:41	13:46	8.46	13.78	6.48	0.145	73.1	10.36	0.0	
	11/15/2010	12:01	12:06	9.17	13.14	6.11	0.137	145.80	8.53	0.0	
	12/15/2010	9:28	9:33	7.93	10.61	6.17	0.107	-131.00	5.21	0.3	
	1/14/2011	12:36	12:41	8.66	9.28	6.72	0.161	210.60	9.27	0.0	
	2/14/2011	8:25	8:30	9.45	9.46	6.27	0.159	58.20	7.71	0.0	
	3/15/2011	10:43	10:48	6.38	7.43	5.79	0.204	-130.60	11.27	0.1	
	4/14/2011	14:20	14:25	7.33	7.77	6.35	0.170	-316.30	12.01	0.0	
	5/18/2011	12:07	12:12	5.64	9.06	6.75	0.193	-207.90	10.89	0.3	
	6/13/2011	10:52	10:57	6.39	9.75	6.59	0.367	-5.70	7.36	0.2	
	7/11/2011	13:18	13:23	7.32	12.06	6.92	0.334	-270.20	9.10	0.1	

**TABLE 3-3  
SUMMARY OF DO/ORP/PID DATA  
AREA 1595**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
15915-PZ-10	1/13/2009	8:49	9:12	12.34	11.25	6.55	2.696	-17.6	0.05	0.0	Replacement for 1595-OBG2 (due to presence of LNAPL)
	1/20/2009	10:05	10:16	12.52	8.90	6.74	0.116	117.4	11.33	4.8	
	2/5/2009	10:17	10:43	13.26	9.31	6.35	0.393	11.5	0.29	0.0	
	3/4/2009	8:16	9:06	12.68	9.67	6.69	0.911	34.2	7.49	0.0	
	3/25/2009	15:09	15:36	12.51	8.12	6.00	0.676	-25.1	3.24	0.0	
	4/13/2009	14:21	14:26	12.24	8.36	6.77	0.141	0.7	3.78	0.0	
	5/19/2009	9:34	9:39	12.46	9.10	7.14	0.936	-37.8	4.37	0.0	
	6/24/2009	12:48	12:53	12.93	10.67	6.44	0.286	-77.6	0.38	15.9	
	7/30/2009	9:40	9:45	13.81	11.19	6.64	0.215	-65.5	0.91	2.4	
	8/28/2009	10:03	10:08	14.40	11.93	6.35	0.237	-61.2	6.16	1.7	
	9/16/2009	9:25	9:30	14.19	11.89	6.41	0.266	46.6	0.75	1.7	
	10/13/2009	9:45	9:50	15.17	11.39	6.95	2.055	-65.1	1.35	0.1	
	11/11/2009	9:57	10:02	15.24	11.74	6.76	1.098	-120.1	11.61	0.3	
	12/16/2009	11:50	11:55	15.39	11.37	7.14	1.287	-19.0	4.81	0.90	
	1/15/2010	9:30	9:35	15.64	10.60	6.56	0.188	52.4	3.14	4.0	
	2/10/2010	15:37	15:42	15.08	10.10	6.46	0.334	-15.1	1.43	1.2	
	3/9/2010	13:43	13:48	15.76	10.09	6.36	0.204	-25.8	1.43	2.4	
	4/13/2010	14:42	14:47	15.04	9.57	6.33	0.205	90.3	1.40	2.1	
	5/11/2010	14:16	14:21	15.51	9.37	6.33	0.232	-57.0	0.59	4.9	
	6/15/2010	14:24	14:29	15.85	10.63	6.41	0.351	-54.1	0.79	4.6	
	7/13/2010	14:38	14:43	15.77	10.73	6.84	1.062	131.2	12.02	14.9	
	8/10/2010	11:23	11:28	15.26	11.64	6.66	0.205	46.6	0.88	7.9	
	9/14/2010	11:03	11:08	15.87	12.68	6.20	0.234	-83.3	1.24	18.0	
	10/12/2010	13:52	13:57	14.26	13.29	6.94	1.313	7.0	3.31	36.4	
	11/15/2010	11:33	11:38	14.58	13.35	6.17	0.155	-92.8	0.74	28.2	
	12/15/2010	9:54	9:59	13.65	12.31	6.14	0.538	-195.5	0.02	19.3	
	1/14/2011	9:26	9:31	14.03	11.63	6.36	0.224	-123.2	0.95	10.7	
	2/14/2011	10:04	10:09	14.71	11.09	6.45	0.528	-52.2	1.48	24.4	
	3/15/2011	11:21	11:26	12.43	10.07	6.68	1.901	-129.4	11.19	0.0	
	4/14/2011	14:10	14:15	12.92	9.90	6.90	1.842	-310.6	9.74	7.4	
5/18/2011	11:40	11:45	11.55	9.37	7.33	2.361	227.2	9.12	3.8		
6/13/2011	11:02	11:07	12.08	9.81	6.32	0.234	-93	0.62	2.1		
7/11/2011	12:54	12:59	12.65	11.62	6.97	0.178	-343.9	2.33	0.1		

**Notes:**

- NR = Not Recorded
- DTW = Depth to Water (feet)
- Temp = Temperature (degrees Fahrenheit)
- ORP = Oxidation Reduction Potential
- mV = Millivolts
- DO = Dissolved Oxygen (milligrams per liter)
- PID = Photoionization Detector
- ppm = Parts Per Million

**TABLE 3-5  
SUMMARY OF ESTIMATED CONTAMINANT REMOVAL  
AREA 1795**

**System A**

<b>Monitoring Date</b>	<b>Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)</b>	<b>Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)</b>	<b>LNAPL Recovery (gal)</b>
<b>May</b>	6.89	1.10	0
<b>June</b>	5.48	0.87	0
<b>July</b>	13.99	2.23	0
<b>Quarter Total</b>	26.36	4.20	0
<b>Total to Date</b>	7,313.54	1,164.58	0.2

**System B**

<b>Monitoring Date</b>	<b>Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)</b>	<b>Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)</b>	<b>LNAPL Recovery (gal)</b>
<b>May</b>	0.00	0.00	0
<b>June</b>	0.00	0.00	0
<b>July</b>	0.00	0.00	0
<b>Quarter Total</b>	0.00	0.00	0
<b>Total to Date</b>	1,225.25	195.10	0

Note: Area 1795B SVE system legs connected to 1795A as of December 1, 2009.

lb = pounds

gal = gallons

**TABLE 3-6  
CUMULATIVE VOLUME OF TREATED GROUNDWATER  
AREA 1795**

**System A**

<b>Description</b>	<b>May</b>	<b>June</b>	<b>July</b>	<b>Total/Average</b>
<b>Gallons</b>	0	0	0	0
<b>Hours Operated</b>	690	623	576	1,888
<b>Days Operated</b>	29	26	24	79
<b>Average (gal/min)</b>	0.000	0.000	0.000	0.000

**System B**

<b>Description</b>	<b>May</b>	<b>June</b>	<b>July</b>	<b>Total/Average</b>
<b>Gallons</b>	0	0	0	NA
<b>Hours Operated</b>	0	0	0	NA
<b>Days Operated</b>	0	0	0	NA
<b>Average (gal/min)</b>	NA	NA	NA	NA

Note: Area 1795B SVE system legs connected to 1795A as of December 1, 2009.

**TABLE 3-7**  
**SUMMARY OF DO/ORP/PID DATA**  
**AREA 1795**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
1795-MW6	12/17/2008	NR	NR	NR	NR	NR	NR	158.30	5.38	0.00	
	1/13/2009	14:06	14:26	4.01	5.72	7.33	0.336	94.40	6.44	0.10	
	1/20/2009	14:37	14:43	4.22	5.64	7.20	0.321	83.70	4.71	0.00	
	2/3/2009	10:52	11:13	4.97	5.85	6.96	0.278	93.70	0.61	0.00	
	3/3/2009	15:33	15:54	3.71	5.15	7.08	0.246	8.20	4.68	0.00	
	3/26/2009	13:35	13:54	3.98	2.79	7.20	0.267	39.10	10.99	0.00	
	4/13/2009	16:01	16:06	3.58	4.70	7.61	0.378	221.60	13.86	0.00	
	5/18/2009	15:25	15:30	3.62	10.09	7.74	0.353	8.10	8.81	0.00	
	6/23/2009	14:35	14:40	4.74	12.25	7.36	0.384	18.50	0.83	0.00	
	7/30/2009	13:00	13:05	5.59	14.30	7.14	0.402	13.00	1.93	0.00	
	8/28/2009	11:31	11:36	6.80	14.39	6.77	0.392	-68.80	10.77	0.00	
	9/16/2009	13:07	13:12	8.27	13.02	7.05	0.506	23.80	1.37	0.0	
	10/13/2009	13:06	13:11	9.04	11.79	6.83	1.464	53.30	1.55	0.0	
	11/11/2009	14:16	14:21	9.12	10.97	6.79	1.032	45.00	7.55	0.2	
	12/16/2009	10:37	10:42	9.45	9.18	6.94	1.124	24.00	3.06	0.1	
	1/13/2010	10:07	10:12	9.91	7.86	7.24	1.064	-15.10	3.96	0.0	
	2/8/2010	12:50	12:55	9.03	5.22	7.03	0.471	-21.40	12.81	0.0	
	3/8/2010	14:09	14:14	9.82	6.31	6.80	0.550	59.30	11.96	0.0	
	4/12/2010	15:04	15:09	9.45	6.57	6.71	0.394	45.90	10.34	0.0	
	5/10/2010	15:00	15:05	10.09	7.20	7.02	0.472	24.60	8.72	0.0	
	6/14/2010	14:37	14:42	10.52	8.72	6.68	0.402	12.80	6.09	0.0	
	7/13/2010	13:08	13:13	10.58	9.57	7.16	0.370	53.70	6.60	0.0	
	8/11/2010	14:57	15:02	14.71	10.86	6.79	0.081	133.00	7.55	0.0	
	9/15/2010	12:20	12:25	10.81	11.63	7.01	0.630	65.40	9.79	0.0	
	10/11/2010	14:10	14:15	8.87	12.96	6.80	0.331	83.70	7.66	0.0	
	11/15/2010	13:35	13:40	9.73	11.31	6.34	0.492	137.70	6.58	0.0	
	12/13/2010	14:22	14:27	9.31	11.24	6.44	0.509	-128.60	7.30	0.0	
	1/18/2011	9:08	9:13	9.56	7.46	7.29	0.369	-36.30	8.33	0.0	
	2/15/2011	11:00	11:05	10.33	7.78	6.98	0.433	-17.60	6.31	0.0	
	3/16/2011	10:58	11:03	6.48	4.32	7.24	0.408	-121.30	11.79	0.0	
	4/14/2011	13:28	13:33	7.97	5.38	6.77	0.340	-326.90	11.25	0.0	
	5/18/2011	11:12	11:17	6.39	6.90	7.57	0.436	-219.10	11.37	0.0	
	6/13/2011	9:40	9:45	7.52	9.19	6.91	0.495	95.70	5.15	0.0	
7/11/2011	12:26	12:31	8.78	9.56	7.01	0.481	-311.40	4.98	0.0		
1795-MW38	12/17/2008	NR	NR	NR	NR	NR	NR	76.90	10.11	0.00	
	1/13/2009	11:45	12:23	4.15	5.22	7.01	0.343	78.50	0.96	1.50	
	1/20/2009	14:50	15:00	4.83	5.03	7.17	0.333	67.90	0.56	0.80	
	2/3/2009	15:28	15:50	5.38	7.02	7.36	0.239	124.40	0.10	754.00	
	3/3/2009	16:05	16:22	4.71	3.81	7.33	0.137	23.10	9.68	0.00	Well bubbling
	3/26/2009	14:07	14:32	4.54	1.74	7.78	0.183	15.10	8.88	0.00	Well bubbling
	4/13/2009	15:42	15:47	3.89	4.73	7.61	0.282	205.30	11.87	0.00	
	5/18/2009	15:47	15:52	4.11	9.15	7.82	0.266	137.30	11.19	0.00	
	6/23/2009	15:07	15:12	4.72	13.14	7.97	0.252	42.10	9.71	0.00	Well bubbling
	7/30/2009	13:30	13:35	5.33	16.34	7.39	0.263	7.70	8.17	0.00	
	8/28/2009	10:57	11:02	10.31	15.40	6.63	0.445	129.70	3.03	44.80	
	9/16/2009	10:55	11:00	10.92	15.49	7.12	0.466	43.00	1.66	1,082.0	
	10/13/2009	10:50	10:55	10.77	13.89	7.02	0.746	47.20	5.75	1,132.0	
	11/11/2009	12:52	12:57	10.77	13.71	6.94	1.400	92.10	11.95	653.0	
	12/16/2009	10:48	10:53	11.06	11.11	7.07	1.304	25.80	8.30	723.7	
	1/13/2010	10:52	10:57	11.28	10.46	7.19	2.050	34.10	6.45	471.4	
	2/8/2010	10:46	10:51	11.25	7.68	7.02	0.357	-16.40	1.36	337.2	
	3/8/2010	13:03	13:08	11.24	8.24	6.97	0.587	61.10	1.38	334.6	
	4/12/2010	13:35	13:40	11.16	8.17	7.17	0.586	15.90	1.80	302.6	
	5/10/2010	12:55	13:00	11.42	8.65	7.05	1.143	50.50	4.90	314.6	
	6/15/2010	13:04	13:09	11.46	10.47	6.47	2.748	31.50	8.26	326.4	
	7/13/2010	11:43	11:48	11.41	11.09	6.69	2.647	163.10	11.61	606.3	
	8/11/2010	15:33	15:38	11.48	12.57	6.92	1.136	15.80	6.37	176.5	
	9/14/2010	12:29	12:34	11.45	13.08	7.14	0.797	77.20	11.52	133.8	
	10/11/2010	12:54	12:59	10.82	14.85	6.99	0.554	56.80	1.13	278.3	
	11/15/2010	13:45	13:50	11.23	13.23	6.69	0.661	111.70	2.45	142.8	
	12/13/2010	14:00	14:05	10.82	11.31	6.57	3.175	-119.20	0.14	60.5	
	1/18/2011	8:33	8:38	11.28	10.47	6.92	2.824	125.40	5.65	68.4	
	2/15/2011	11:30	11:35	11.51	8.22	6.79	3.184	55.40	7.31	35.8	
	3/16/2011	11:09	11:14	10.41	6.89	6.97	3.252	-130.00	7.28	3.9	
4/14/2011	10:58	11:03	10.98	7.61	6.78	4.376	-342.10	10.57	7.1		
5/18/2011	11:20	11:25	10.16	8.90	7.09	3.884	-220.20	8.89	0.0		
6/13/2011	9:49	9:54	10.07	10.05	6.84	2.644	109.10	2.44	0.0		
7/11/2011	12:35	12:40	10.95	11.22	6.78	1.129	-365.40	1.13	5.4		
1795-MWS11	12/17/2008	NR	NR	11.02	NR	NR	NR	NR	NR	0.00	Sheen
	1/13/2009	13:15	13:43	10.08	11.20	6.75	0.335	-55.80	0.03	0.00	
	1/20/2009	14:00	14:13	9.56	11.36	7.83	0.381	-13.20	0.01	0.00	
	2/3/2009	10:14	10:39	11.91	9.54	6.48	0.204	117.60	0.39	0.00	
	3/3/2009	14:50	15:19	10.84	8.23	6.78	0.167	-30.20	0.75	6.50	
	3/26/2009	13:15	13:33	10.85	7.87	7.50	0.263	-96.90	0.87	0.00	

TABLE 3-7  
SUMMARY OF DO/ORP/PID DATA  
AREA 1795

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
	4/13/2009	16:12	16:17	10.34	7.16	7.25	0.503	11.90	5.54	97.70	
	5/18/2009	15:13	15:18	10.80	8.65	6.88	0.313	21.30	2.59	32.10	
	6/23/2009	13:32	13:37	11.23	11.20	5.89	0.315	109.50	3.08	1.30	
	7/30/2009	12:03	12:08	12.16	12.90	6.91	0.218	82.30	3.45	0.70	
	8/28/2009	12:44	12:49	13.40	11.40	6.00	0.392	29.40	1.36	0.00	
	9/16/2009	11:17	11:22	14.14	12.26	6.94	0.445	2.80	1.67	0.0	
	10/13/2009	11:17	11:22	14.74	11.64	6.79	0.416	-52.70	1.80	0.0	
	11/11/2009	13:17	13:22	14.74	11.85	6.67	0.414	-49.20	1.15	0.3	
	12/16/2009	9:47	9:52	15.06	10.41	6.74	0.357	39.50	2.69	0.8	
	1/13/2010	9:17	9:22	15.53	9.65	6.57	0.338	56.20	1.92	0.2	
	2/8/2010	11:13	11:18	14.96	9.91	7.10	0.212	-46.30	2.44	0.2	
	3/8/2010	13:37	13:42	15.51	9.65	6.75	0.216	3.70	4.42	0.0	
	4/12/2010	14:04	14:09	14.83	9.21	6.50	0.188	32.40	4.33	0.0	
	5/10/2010	13:36	13:41	15.46	9.24	6.77	0.225	10.00	5.84	0.0	
	6/15/2010	13:36	13:41	15.94	10.55	6.57	0.179	32.70	3.92	0.0	
	7/13/2010	12:21	12:26	15.89	11.64	6.37	0.168	70.40	1.17	0.1	
	8/11/2010	14:43	14:48	15.84	12.16	6.46	0.162	132.30	6.14	0.0	
	9/15/2010	11:55	12:00	15.84	11.96	5.95	0.147	83.20	3.94	0.0	
	10/11/2010	13:16	13:21	15.21	12.33	6.89	0.197	-21.50	0.49	0.0	
	11/15/2010	12:41	12:46	15.37	12.38	5.52	0.144	185.40	8.23	0.0	
	12/13/2010	13:25	13:30	14.63	10.88	6.41	0.159	-112.80	1.82	0.0	
	1/18/2011	7:57	8:02	14.61	10.23	6.73	0.240	116.00	3.34	0.0	
	2/15/2011	10:20	10:25	15.39	10.28	6.38	0.182	10.40	2.74	0.0	
	3/16/2011	10:35	10:40	13.37	8.51	6.77	0.312	-120.40	5.10	0.0	
	4/14/2011	13:08	13:13	13.93	8.77	6.52	0.172	-367.10	2.16	0.0	
	5/18/2011	10:29	10:34	12.55	8.76	7.01	0.181	-217.30	1.16	0.0	
	6/13/2011	8:55	9:00	13.04	9.40	6.67	0.191	6.80	1.31	0.0	
	7/11/2011	12:03	12:08	13.75	10.15	6.66	0.159	-372.90	1.00	0.0	
1795-MWS16	12/17/2008	NR	NR	NR	NR	NR	NR	233.80	12.04	0.00	
	1/13/2009	12:58	13:34	14.45	6.73	7.18	0.002	187.20	12.80	0.00	
	1/20/2009	13:38	13:53	14.56	7.89	6.21	0.013	198.10	11.37	0.00	
	2/3/2009	10:23	10:44	15.34	8.82	6.08	0.540	131.20	0.25	0.00	
	3/3/2009	14:58	15:22	15.25	7.88	6.14	0.030	124.50	11.45	0.00	
	3/26/2009	12:44	13:16	14.59	6.87	6.58	0.041	78.50	12.25	0.00	
	4/13/2009	16:21	16:26	14.46	6.84	7.76	0.117	201.00	13.63	0.00	
	5/18/2009	15:02	15:07	14.92	7.53	7.09	0.055	172.90	12.65	0.00	
	6/23/2009	13:46	13:51	15.11	10.34	6.48	0.074	207.00	13.26	0.00	
	7/30/2009	12:16	12:21	16.23	10.13	7.00	0.055	92.90	8.34	98.20	
	8/28/2009	12:31	12:36	17.21	10.11	6.21	0.079	162.10	14.82	230.60	
	9/16/2009	11:27	11:32	17.84	10.51	7.19	0.088	9.60	9.00	85.4	
	10/13/2009	11:32	11:37	18.64	10.68	6.89	0.067	48.10	9.73	0.0	
	11/11/2009	13:29	13:34	19.01	11.13	6.81	0.060	20.80	10.03	0.5	
	12/16/2009	9:58	10:03	19.13	10.06	7.49	0.059	-0.90	11.55	0.4	
	1/13/2010	9:00	9:05	19.34	8.65	6.88	0.073	18.30	10.39	0.7	
	2/8/2010	11:24	11:29	18.83	8.85	7.20	0.051	-35.00	11.03	0.0	
	3/8/2010	13:52	13:57	19.36	8.97	6.44	0.068	65.20	12.45	0.0	
	4/12/2010	14:20	14:25	18.39	9.43	6.81	0.051	28.30	12.79	0.0	
	5/10/2010	13:55	14:00	18.89	8.46	6.72	0.070	39.60	11.52	30.1	
	6/14/2010	13:48	13:53	19.58	9.59	6.31	0.066	18.80	12.85	36.7	
	7/13/2010	12:31	12:36	19.91	10.21	6.49	0.057	105.70	11.58	7.2	
	8/11/2010	14:32	14:37	20.01	10.82	6.92	0.075	61.00	24.36	33.7	Only well that had a high DO
	9/15/2010	11:45	11:50	20.26	9.98	6.83	0.068	77.60	10.48	1.2	
	10/11/2010	13:31	13:36	19.64	11.30	6.05	0.110	96.90	6.88	28.1	
	11/15/2010	12:30	12:35	19.06	11.51	6.40	0.051	109.40	10.01	9.6	
	12/13/2010	13:39	13:44	18.60	10.46	6.64	0.055	-96.70	6.61	0.0	
	1/18/2011	7:47	7:52	18.07	9.06	7.12	0.118	76.80	10.66	0.0	
	2/15/2011	10:03	10:08	18.84	9.62	6.45	0.059	78.10	11.11	0.0	
	3/16/2011	10:27	10:32	17.53	7.96	6.82	0.158	-118.90	11.18	0.0	
	4/14/2011	12:58	13:03	16.98	8.23	7.01	0.049	-338.10	10.56	0.0	
	5/18/2011	10:38	10:43	15.83	8.42	8.10	0.040	-212.70	11.62	5.9	
	6/13/2011	9:06	9:11	15.99	8.87	6.71	0.043	74.20	8.69	2.6	
	7/11/2011	11:55	12:00	16.87	9.41	7.51	0.049	-319.40	10.62	0.0	
1795-MWS3	12/17/2008	NR	NR	NR	NR	NR	NR	192.70	8.38	1.60	
	1/13/2009	12:35	13:11	9.85	7.95	5.75	0.153	78.60	0.06	0.80	
	1/20/2009	13:10	13:26	10.15	6.53	6.12	0.136	87.10	2.60	2.30	
	2/3/2009	10:00	10:18	10.64	7.47	5.60	0.106	148.10	0.06	0.00	
	3/3/2009	14:10	14:53	10.23	6.90	5.36	0.266	99.60	0.42	0.00	
	3/26/2009	12:22	12:39	9.85	5.59	6.10	0.337	129.70	0.83	0.00	
	4/13/2009	16:31	16:36	9.47	5.51	7.33	0.205	213.00	10.64	0.00	
	5/18/2009	14:49	14:54	10.02	6.83	6.33	0.152	192.10	5.59	0.00	
	6/23/2009	14:07	14:12	10.41	9.12	6.67	0.054	197.30	12.21	3.30	
	7/30/2009	12:28	12:33	11.44	10.20	6.72	0.050	140.20	9.14	0.80	
	8/28/2009	12:19	12:24	12.65	10.86	5.65	0.060	191.20	8.47	0.00	
	9/16/2009	11:40	11:45	13.28	10.47	5.60	0.137	95.90	1.71	0.0	

**TABLE 3-7  
SUMMARY OF DO/ORP/PID DATA  
AREA 1795**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
	10/13/2009	10:46	10:51	14.86	9.54	6.57	0.402	-63.70	1.36	0.7	
	11/11/2009	13:40	13:45	14.21	10.02	6.53	0.431	-86.50	1.57	0.4	
	12/16/2009	10:10	10:15	14.36	8.86	6.68	0.385	6.10	1.45	0.2	
	1/13/2010	8:40	8:45	14.74	7.96	6.71	0.549	-30.40	3.50	0.4	
	2/8/2010	11:44	11:49	14.28	7.73	6.56	0.419	-24.40	1.52	0.0	
	3/8/2010	14:58	15:03	14.84	7.08	6.16	0.394	-15.90	2.30	0.0	
	4/12/2010	14:31	14:36	13.96	7.87	6.55	0.436	29.60	1.41	0.1	
	5/10/2010	14:11	14:16	14.47	7.46	6.69	0.420	-70.40	4.27	0.3	
	6/14/2010	14:02	14:07	15.12	8.96	5.61	0.308	-11.20	0.91	0.0	
	7/13/2010	12:44	12:49	15.29	9.90	6.31	0.343	-26.40	1.17	0.1	
	8/11/2010	14:18	14:23	15.33	11.38	6.67	0.378	-70.30	1.95	0.0	
	9/15/2010	11:35	11:40	15.61	10.89	6.31	0.302	87.10	7.88	0.0	
	10/11/2010	14:23	14:28	15.17	13.16	6.68	0.054	107.00	11.29	16.3	
	11/15/2010	12:20	12:25	15.66	10.67	5.90	0.152	68.20	4.36	0.0	
	12/13/2010	13:50	13:55	14.30	9.28	6.31	0.227	-158.40	2.30	0.4	
	1/18/2011	7:32	7:37	13.64	8.05	6.74	0.220	61.40	4.27	0.0	
	2/15/2011	9:41	9:46	14.42	8.57	4.42	14.160	138.50	0.77	0.0	
	3/16/2011	10:19	10:24	13.13	6.88	6.93	0.485	-131.40	6.20	10.3	
	4/14/2011	12:49	12:54	12.64	7.06	6.22	0.089	-379.60	0.90	0.0	
	5/18/2011	10:48	10:53	11.36	7.69	6.80	0.082	-201.60	3.94	0.0	
	6/13/2011	9:16	9:21	11.66	8.01	6.44	0.033	39.90	8.19	0.0	
	7/11/2011	11:44	11:49	12.50	9.07	6.08	0.048	-287.30	9.98	0.0	
1795-MWS4	12/17/2008	NR	NR	NR	NR	NR	NR	279.20	10.54	0.00	
	1/13/2009	12:14	12:40	8.50	6.36	5.96	0.046	168.20	10.56	0.00	
	1/20/2009	12:33	13:00	8.73	5.86	5.99	0.030	110.20	0.02	0.00	
	2/3/2009	9:45	10:08	9.21	6.51	6.01	0.035	146.80	0.69	0.00	
	3/3/2009	14:00	14:26	8.45	5.04	5.63	0.027	222.70	7.91	0.00	
	3/26/2009	11:55	12:17	7.72	4.51	7.31	0.025	92.50	12.80	0.00	
	4/13/2009	18:12	18:17	7.28	4.88	6.51	0.030	195.10	12.76	0.00	
	5/18/2009	15:35	15:40	8.16	7.29	7.63	0.048	150.50	13.06	0.00	
	6/23/2009	14:21	14:26	9.77	9.85	6.41	0.034	222.90	9.91	0.00	
	7/30/2009	12:50	12:55	10.02	11.13	6.54	0.033	170.10	7.72	0.0	
	8/28/2009	11:44	11:49	11.06	11.63	5.76	0.035	160.80	12.56	0.00	
	9/16/2009	13:20	13:25	11.86	11.32	6.50	0.040	73.60	7.70	0.0	
	10/13/2009	13:16	13:21	12.64	9.57	6.24	0.039	148.10	7.52	0.0	
	11/11/2009	13:55	14:00	12.91	10.07	5.70	0.046	144.60	7.70	0.3	
	12/16/2009	10:23	10:28	13.13	8.60	6.22	0.032	53.00	10.40	0.8	
	1/13/2010	10:30	10:35	13.49	8.11	7.00	0.385	17.70	7.25	0.0	
	2/8/2010	13:06	13:11	12.91	6.27	6.93	0.032	-26.10	10.16	0.0	
	3/8/2010	14:37	14:42	13.61	6.86	6.06	0.048	103.70	10.74	0.0	
	4/12/2010	14:50	14:55	12.58	8.73	7.18	0.028	67.90	12.18	0.0	
	5/10/2010	14:33	14:38	13.37	6.89	5.82	0.042	72.10	2.50	0.0	
	6/14/2010	14:20	14:25	14.03	8.66	5.83	0.052	31.90	8.07	0.0	
	7/13/2010	12:53	12:58	14.51	9.73	6.48	0.359	45.70	2.39	0.0	
	8/11/2010	15:10	15:15	10.87	11.76	6.96	0.787	40.60	8.90	0.0	
	9/15/2010	12:10	12:15	14.93	9.64	6.65	0.962	73.10	2.85	0.0	
	10/11/2010	13:54	13:59	14.18	11.67	5.89	0.970	135.60	11.60	0.0	
	11/15/2010	12:52	12:57	13.51	10.65	5.75	0.034	189.90	10.03	0.0	
	12/13/2010	14:31	14:36	12.74	10.44	5.97	0.071	-143.60	8.64	0.0	
	1/18/2011	8:09	8:14	12.73	7.41	6.93	0.195	152.50	11.48	0.0	
	2/14/2011	10:39	10:44	13.51	8.08	6.67	0.610	-37.70	3.84	0.0	
	3/16/2011	10:46	10:51	12.20	6.22	6.70	0.109	-118.50	10.65	0.1	
	4/14/2011	13:19	13:24	11.05	6.19	6.43	0.034	-336.10	10.84	0.0	
	5/18/2011	10:58	11:03	9.76	6.86	7.03	0.026	-190.80	11.92	0.0	
	6/13/2011	9:30	9:35	10.38	7.94	6.17	0.027	180.20	8.84	0.0	
	7/11/2011	12:14	12:19	12.14	9.34	7.03	0.038	-294.40	10.58	0.0	
1795-MWS7	12/17/2008	NR	NR	NR	NR	NR	NR	-79.90	3.44	95.70	
	1/13/2009	14:03	14:32	6.40	10.14	6.67	1.698	-80.30	0.01	14.20	
	1/20/2009	14:20	14:35	7.03	9.76	6.58	0.734	-42.30	13.05	0.30	
	2/3/2009	11:03	11:28	5.37	6.05	6.29	0.168	126.50	0.06	0.00	
	3/3/2009	15:29	15:51	6.80	5.78	6.74	1.659	-80.20	1.87	106.00	
	3/26/2009	13:40	13:57	7.98	5.18	7.21	1.633	-85.00	2.19	83.60	
	4/13/2009	15:51	15:56	6.45	6.38	6.99	2.378	-16.80	6.58	109.00	
	5/18/2009	15:57	16:02	6.61	11.11	7.22	3.325	-39.80	0.82	40.80	
	6/23/2009	14:55	15:00	7.36	14.17	7.49	3.290	-98.70	0.61	266.00	
	7/30/2009	13:17	13:22	8.11	16.04	6.73	3.727	-90.70	0.96	26.80	
	8/28/2009	11:19	11:24	10.50	17.10	6.67	2.020	-95.50	0.67	24.80	
	9/16/2009	11:06	11:11	11.89	15.78	7.21	2.508	2.10	0.63	3.4	
	10/13/2009	11:06	11:11	11.98	14.90	7.02	2.873	-110.70	0.68	51.3	
	11/11/2009	13:06	13:11	12.01	14.51	7.05	1.847	-124.70	8.05	1,452.0	
	12/16/2009	9:35	9:40	12.57	12.51	7.15	1.098	54.10	1.42	996.2	
	1/13/2010	9:47	9:52	13.08	10.10	7.07	3.031	-39.70	0.34	1,852.1	
	2/8/2010	11:00	11:05	12.58	9.75	6.77	0.750	-36.40	1.20	779.40	
	3/8/2010	13:20	13:25	12.61	9.58	6.67	1.045	-57.90	1.33	731.7	

**TABLE 3-7  
SUMMARY OF DO/ORP/PID DATA  
AREA 1795**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
	4/12/2010	13:48	13:53	12.64	9.46	6.71	1.318	17.50	1.79	700.2	
	5/10/2010	13:11	13:16	13.26	9.80	6.73	3.640	-86.50	0.52	942.2	
	6/15/2010	13:24	13:29	13.46	13.03	6.29	3.340	-21.20	0.80	892.2	
	7/13/2010	12:10	12:15	13.41	13.53	6.79	8.150	-66.00	2.12	4,573.0	
	8/11/2010	15:21	15:26	13.55	15.44	6.51	2.990	36.80	2.13	21.7	Leg 2 was hooked up
	9/15/2010	12:37	12:42	13.29	13.96	6.69	3.110	73.30	5.85	12.3	
	10/11/2010	13:06	13:11	11.86	17.18	6.38	0.860	-49.60	1.18	8.2	
	11/15/2010	13:54	13:59	12.83	15.07	6.39	0.966	-92.80	0.07	301.8	
	12/13/2010	14:11	14:16	12.01	12.78	6.69	0.900	-208.00	0.03	450.3	
	1/18/2011	8:42	8:47	12.85	10.50	6.70	0.641	-103.10	0.99	1.8	
	2/15/2011	11:48	11:53	13.34	10.50	7.03	2.643	-112.30	1.53	1.1	
	3/16/2011	11:17	11:22	10.68	7.72	6.89	0.886	-124.00	4.82	1.0	
	4/14/2011	13:36	13:41	11.92	8.15	6.38	0.082	-362.40	-0.33	1.9	
	5/18/2011	10:18	10:23	10.45	9.93	7.00	0.709	-284.00	1.07	2.4	
	6/13/2011	8:43	8:48	11.59	10.60	6.51	1.335	-127.60	0.48	0.7	
	7/11/2011	11:37	11:42	12.21	12.47	6.49	1.256	-379.40	1.34	1.0	

**Notes:**

- NR = Not Recorded
- DTW = Depth to Water (feet)
- Temp = Temperature (degrees Fahrenheit)
- ORP = Oxidation Reduction Potential
- mV = Millivolts
- DO = Dissolved Oxygen (milligrams per liter)
- PID = Photoionization Detector
- ppm = Parts Per Million



**TABLE 3-8  
SUMMARY OF ESTIMATED CONTAMINANT REMOVAL  
AREAS 1995 AND 3805**

**System A**

<b>Monitoring Date</b>	<b>Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)</b>	<b>Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)</b>	<b>LNAPL Recovery (gal)</b>
May	0.13	0.02	0
June	0.00	0.00	0
July	0.00	0.00	0
<b>Quarter Total</b>	0.13	0.02	0
<b>Total to Date</b>	16,143.35	2,570.60	<1

**System B**

<b>Monitoring Date</b>	<b>Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)</b>	<b>Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)</b>	<b>LNAPL Recovery (gal)</b>
May	0.13	0.02	0.117
June	0.06	0.01	0.423
July	0.13	0.02	0.219
<b>Quarter Total</b>	0.32	0.05	0.759
<b>Total to Date</b>	14,191.85	2,259.85	23.13

**System C**

<b>Monitoring Date</b>	<b>Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)</b>	<b>Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)</b>	<b>LNAPL Recovery (gal)</b>
May	0.00	0.00	0
June	0.10	0.02	0
July	0.02	0.00	0
<b>Quarter Total</b>	0.12	0.02	0
<b>Total to Date</b>	4,055.11	645.72	2

**System D**

<b>Monitoring Date</b>	<b>Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)</b>	<b>Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)</b>	<b>LNAPL Recovery (gal)</b>
February	0.00	0.00	0
March	0.00	0.00	0
April	0.00	0.00	0
<b>Quarter Total</b>	0.00	0.00	0
<b>Total to Date</b>	1,161.00	184.87	<1

Note: Area 3805A System shut down as of April 8, 2009.  
Area 3805D System shut down as of August 6, 2008.

**TABLE 3-9  
CUMULATIVE VOLUME OF TREATED GROUNDWATER  
AREAS 1995 AND 3805**

**System A**

<b>Description</b>	<b>May</b>	<b>June</b>	<b>July</b>	<b>Total/Average</b>
<b>Gallons</b>	586	0	0	586
<b>Hours Operated</b>	27	0	0	27
<b>Days Operated</b>	1	0	0	1
<b>Average (gal/min)</b>	0.36	NA	NA	0.36

**System B**

<b>Description</b>	<b>May</b>	<b>June</b>	<b>July</b>	<b>Total/Average</b>
<b>Gallons</b>	1,295	1,707	530	3,532
<b>Hours Operated</b>	47	48	25	120
<b>Days Operated</b>	2	2	1	5
<b>Average (gal/min)</b>	0.47	0.59	0.35	0.47

**System C**

<b>Description</b>	<b>May</b>	<b>June</b>	<b>July</b>	<b>Total/Average</b>
<b>Gallons</b>	0	993	509	1,502
<b>Hours Operated</b>	690	350	687	1,727
<b>Days Operated</b>	29	15	29	72
<b>Average (gal/min)</b>	NA	0.05	0.01	0.03

**System D**

<b>Description</b>	<b>May</b>	<b>June</b>	<b>July</b>	<b>Total/Average</b>
<b>Gallons</b>	0	0	0	NA
<b>Hours Operated</b>	0	0	0	NA
<b>Days Operated</b>	0	0	0	NA
<b>Average (gal/min)</b>	NA	NA	NA	NA

Note: Area 3805A System shut down as of April 8, 2009.  
Area 3805D System shut down as of August 6, 2008.

**TABLE 3-10**  
**SUMMARY OF DO/ORP/PID DATA**  
**AREAS 1995 AND 3805**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
<b>Systems A &amp; B</b>											
3805-MW16	12/19/2008	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	1/12/2009	14:34	15:01	12.58	10.93	7.96	0.837	21.30	0.15	5.50	
	1/19/2009	13:10	13:30	19.90	10.63	8.15	0.850	32.70	3.65	4.40	
	2/4/2009	14:11	14:48	14.04	11.57	7.46	0.670	154.20	0.02	3.90	
	3/4/2009	15:33	16:03	13.87	11.19	7.70	0.575	31.40	4.64	0.00	
	3/27/2009	13:30	13:56	14.03	10.43	7.65	0.674	-45.70	5.61	0.00	
	4/14/2009	12:37	13:02	13.83	9.48	7.85	0.884	177.20	3.23	0.00	
	5/18/2009	13:50	13:55	14.02	10.07	8.11	0.940	187.30	5.25	0.00	
	6/24/2009	11:27	11:32	13.53	11.47	7.36	0.789	136.80	3.62	1.00	
	7/29/2009	11:39	11:44	14.71	13.41	9.61	0.759	150.60	5.09	9.10	
	8/27/2009	13:20	13:25	15.20	13.17	8.46	0.808	41.60	4.06	1.10	
	9/15/2009	13:50	13:55	15.73	13.14	9.57	0.757	-61.20	0.55	0.10	
	10/12/2009	11:34	11:39	15.99	13.38	8.92	0.911	33.40	2.06	1.40	
	11/12/2009	13:53	13:58	16.86	13.55	9.51	0.878	14.90	4.29	0.40	
	12/15/2009	13:21	13:26	17.49	12.57	10.31	0.701	105.90	6.08	0.20	
	1/12/2010	11:26	11:31	17.64	11.70	8.09	0.967	143.30	5.53	52.30	
	2/9/2010	11:44	11:49	17.61	11.29	7.49	0.615	97.00	3.12	216.40	
	3/9/2010	11:11	11:16	18.38	11.36	7.60	0.684	83.80	4.98	2.80	
	4/13/2010	12:51	12:56	17.83	12.11	7.61	0.704	-209.10	6.23	56.20	
	5/11/2010	11:26	11:31	18.46	10.88	7.55	0.756	28.40	2.98	3.50	
	6/15/2010	11:50	11:55	18.83	11.60	7.21	7.130	-46.80	52.00	0.80	
	7/13/2010	8:54	8:59	18.97	12.14	7.49	0.690	-27.10	6.89	3.70	
	8/11/2010	10:44	10:49	18.67	13.80	7.50	0.700	4.60	4.04	0.20	
	9/15/2010	10:28	10:33	18.57	13.59	8.75	0.913	56.10	8.07	0.00	
	10/12/2010	11:37	11:42	17.18	14.49	8.56	0.709	-96.60	8.81	0.00	
	11/16/2010	12:09	12:14	17.31	14.69	8.20	0.832	20.50	2.38	0.00	
	12/14/2010	12:18	12:23	16.76	13.48	8.64	0.816	-158.50	1.73	0.00	System Off
	1/17/2011	9:46	9:51	16.84	12.18	7.78	0.885	-22.90	5.92	0.00	
	2/16/2011	8:52	8:57	17.81	12.19	7.70	0.861	-73.10	7.43	0.00	
	3/16/2011	8:43	8:48	16.54	10.85	7.66	9.890	-128.70	8.41	0.00	
	4/14/2011	9:56	10:01	16.47	10.10	7.70	0.981	-326.30	8.42	0.00	
	5/18/2011	8:40	8:45	15.25	10.20	7.59	1.281	-234.60	1.13	0.10	
	6/15/2011	10:52	10:57	15.25	10.90	7.58	1.353	93.30	5.31	0.00	
	7/11/2011	9:47	9:52	15.75	11.39	7.41	1.367	-350.90	1.08	0.00	
3805-MW41	12/19/2008	NR	NR	NR	NR	NR	NR	194.30	13.07	0.00	
	1/12/2009	9:30	8:50	12.72	10.43	7.18	0.935	164.50	0.78	0.00	
	1/19/2009	11:50	12:00	13.01	9.46	7.66	0.770	24.40	11.93	0.00	
	2/4/2009	9:14	9:40	13.78	10.20	7.05	0.639	113.40	0.77	0.00	
	3/4/2009	13:10	13:44	12.09	9.29	7.15	0.530	59.70	9.71	0.00	
	3/27/2009	11:00	11:30	13.22	8.61	7.29	0.517	16.00	11.40	0.00	
	4/14/2009	10:02	10:57	12.71	8.48	7.41	0.70	188.60	9.23	0.00	
	5/18/2009	12:12	12:17	12.74	8.66	7.58	0.54	182.70	13.34	0.00	Well bubbling
	6/24/2009	10:37	10:42	12.73	10.04	7.03	0.60	125.60	12.89	7.10	
	7/29/2009	11:53	11:58	13.23	11.48	9.09	0.648	136.60	10.27	3.70	
	8/27/2009	11:24	11:29	13.61	12.43	7.00	0.639	90.80	13.12	2.00	
	9/15/2009	11:55	12:00	15.38	12.73	7.32	0.551	-31.30	12.06	0.00	
	10/12/2009	10:22	10:27	16.12	11.80	7.21	0.710	112.20	9.31	0.00	
	11/12/2009	13:10	13:15	16.63	12.03	7.08	0.642	91.30	10.40	0.00	
	12/15/2009	10:45	10:50	16.86	11.09	7.32	0.515	-8.21	11.13	0.00	
	1/12/2010	11:42	11:47	17.21	10.65	7.22	0.819	157.70	9.61	0.00	
	2/9/2010	10:42	10:47	17.36	10.23	7.02	0.614	83.60	9.64	0.00	
	3/9/2010	10:16	10:21	17.21	10.02	6.89	0.655	65.90	9.98	0.00	
	4/13/2010	10:37	10:42	17.34	9.51	7.03	0.655	25.50	11.18	0.00	
	5/11/2010	10:03	10:08	17.48	9.15	6.98	0.601	55.70	4.43	0.40	
	6/15/2010	9:23	9:28	17.74	9.39	6.90	0.564	-9.90	12.44	1.30	
	7/13/2010	7:48	7:53	17.83	9.67	6.96	0.485	51.60	11.62	1.70	
	8/11/2010	13:14	13:19	18.91	13.44	6.95	0.481	73.70	9.41	2.40	
	9/15/2010	9:16	9:21	17.85	11.15	7.12	0.503	61.90	11.40	0.00	
	10/12/2010	10:16	10:21	16.61	12.61	7.21	0.486	11.90	8.94	0.00	
	11/16/2010	11:05	11:10	17.05	12.72	6.92	0.048	105.90	9.09	0.00	
	12/14/2010	10:48	10:53	16.23	11.88	7.19	0.436	-129.50	4.25	0.00	System Off
	1/17/2011	12:03	12:08	16.48	11.14	7.26	0.544	-167.40	10.17	0.00	
	2/16/2011	11:20	11:25	17.49	10.88	7.40	0.535	55.70	10.30	0.00	
	3/16/2011	7:40	7:45	16.11	9.64	6.87	0.563	-124.60	10.42	0.00	
	4/14/2011	11:06	11:11	16.51	9.24	6.85	0.565	-358.00	10.67	0.00	
	5/18/2011	9:55	10:00	15.42	8.78	7.25	0.744	-194.40	9.59	0.00	
	6/15/2011	0:09	9:14	15.76	8.59	6.96	2.100	135.80	12.44	0.00	
	7/11/2011	11:30	11:35	16.25	9.42	7.10	0.657	-299.60	9.22	0.00	
3805-016	12/19/2008	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	1/12/2009	14:29	14:57	12.81	11.09	6.98	0.408	35.90	8.73	0.0	
	1/19/2009	9:35	9:45	13.05	9.49	9.61	0.362	187.80	11.40	0.0	
	2/4/2009	14:18	14:38	13.61	9.53	6.97	0.252	-7.10	0.88	0.4	
	3/4/2009	15:54	16:24	13.18	10.28	6.96	0.212	23.00	9.04	4.5	
	3/27/2009	14:02	14:35	13.52	9.02	7.23	0.180	-13.40	9.30	0.0	
	4/14/2009	12:23	12:28	13.21	9.27	7.14	0.301	177.90	9.13	1.20	
	5/18/2009	14:01	14:06	13.63	8.69	7.55	0.484	191.40	10.83	0.00	
	6/24/2009	11:14	11:19	13.59	10.34	6.87	0.965	144.00	11.58	3.60	
	7/29/2009	11:27	11:32	14.38	12.06	8.49	0.397	157.70	9.51	1.20	
	8/27/2009	13:30	13:38	15.04	12.88	7.37	0.309	82.90	19.52	1.60	
	9/15/2009	13:59	14:04	15.57	12.96	7.92	0.280	-53.50	9.89	0.90	
	10/12/2009	11:47	11:52	16.23	12.64	7.13	0.502	117.20	6.39	0.60	
	11/11/2009	13:51	13:56	16.64	12.64	6.98	0.504	110.30	7.03	0.70	
	12/15/2009	13:26	13:31	17.05	11.52	7.25	0.452	108.10	4.69	1.6	
	1/12/2010	11:08	11:13	17.23	10.42	7.03	0.600	134.20	3.59	0.00	
	2/9/2010	11:28	11:33	16.96	10.00	7.18	0.393	91.00	2.59	0.20	
	3/9/2010	10:59	11:04	17.78	9.91	6.81	0.428	93.30	1.62	0.00	
	4/13/2010	11:46	11:51	17.32	9.76	6.76	0.354	28.70	2.39	0.00	
	5/11/2010	11:42	11:47	17.89	9.78	6.74	0.340	49.80	2.47	0.00	
	6/15/2010	11:39	11:44	18.30	10.93	6.50	0.384	-42.30	1.61	0.10	

**TABLE 3-10  
SUMMARY OF DO/ORP/PID DATA  
AREAS 1995 AND 3805**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
	7/13/2010	8:40	8:45	18.45	11.45	6.70	0.503	-71.90	2.36	0.00	
	8/11/2010	14:03	14:08	18.45	12.98	6.87	0.328	-79.50	1.81	0.20	
	9/15/2010	10:38	10:43	18.63	12.19	7.71	0.350	46.00	3.90	0.00	
	10/12/2010	11:48	11:53	17.13	14.12	7.29	0.617	-82.40	1.44	0.00	
	11/16/2010	12:53	12:58	16.93	13.38	6.64	0.714	92.70	8.68	0.70	
	12/14/2010	11:52	11:57	16.49	11.38	6.88	0.709	-125.10	2.11	0.60	System Off
	1/17/2011	9:33	9:38	16.58	10.38	6.96	0.731	17.10	6.59	0.00	
	2/16/2011	10:30	10:35	17.41	10.73	7.09	0.680	12.00	3.65	0.00	
	3/16/2011	9:33	9:38	14.61	9.36	6.93	0.573	-124.70	2.77	70.40	
	4/14/2011	9:45	9:50	15.39	9.08	6.75	1.030	-319.90	10.26	0.00	
	5/18/2011	9:28	9:33	14.28	8.99	7.48	0.390	-192.80	9.59	0.00	
	6/15/2011	10:41	10:46	14.51	9.95	6.93	0.970	110.20	12.11	0.00	
	7/11/2011	10:50	10:55	15.05	11.34	7.03	1.017	-278.40	8.81	0.00	
3805-MWS2	12/19/2008	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	1/12/2009	13:56	14:23	7.33	7.98	7.08	0.445	6.50	11.38	0.4	
	1/19/2009	12:05	12:15	7.53	6.74	7.79	0.418	26.00	12.44	0.0	
	2/4/2009	15:03	15:18	8.14	8.02	7.04	0.318	139.50	0.03	0.4	
	3/4/2009	14:07	14:44	6.91	3.76	7.18	0.421	77.60	13.49	0.0	
	3/27/2009	14:42	15:18	6.65	3.06	7.50	0.189	-25.40	12.69	0.0	
	4/14/2009	12:46	12:51	6.54	5.13	7.58	0.310	175.70	9.98	0.00	
	5/18/2009	14:12	14:17	6.94	8.93	7.76	0.285	161.80	4.70	0.00	
	6/24/2009	10:40	10:54	7.58	12.40	7.20	0.313	152.10	3.68	1.10	
	7/29/2009	11:07	11:12	8.49	16.09	8.29	0.490	216.40	7.10	0.30	
	8/27/2009	11:51	11:56	9.31	15.67	7.08	0.359	24.40	11.06	0.00	
	9/15/2009	14:06	14:11	10.23	10.67	7.67	0.680	-30.90	10.98	0.00	
	10/12/2009	12:58	13:03	10.83	14.83	7.44	0.268	122.30	9.23	0.40	
	11/12/2009	13:22	13:27	11.34	13.09	7.14	0.303	90.80	9.02	0.30	
	12/15/2009	12:56	13:01	11.69	11.03	7.66	0.260	102.70	10.08	0.0	
	1/12/2010	10:30	10:35	12.18	9.65	7.28	0.419	143.30	9.45	0.40	
	2/9/2010	11:00	11:05	11.82	7.59	7.27	0.350	84.30	10.42	0.10	
	3/9/2010	10:32	10:37	12.54	7.94	7.15	0.897	68.30	10.60	0.00	
	4/13/2010	11:11	11:16	12.07	7.92	6.80	2.214	27.00	12.29	0.00	
	5/11/2010	12:45	12:50	12.67	9.44	7.13	0.767	97.10	8.16	0.10	
	6/15/2010	11:16	11:21	13.16	10.73	6.81	0.527	-18.60	11.34	0.40	
	7/13/2010	8:16	8:21	13.19	12.38	7.10	0.546	105.10	11.52	0.10	
	8/11/2010	13:42	13:47	13.45	14.37	7.14	0.420	-8.00	10.79	0.20	
	9/15/2010	10:59	11:04	13.75	12.14	7.34	0.419	58.50	10.12	0.00	
	10/12/2010	12:07	12:12	11.68	15.38	7.25	0.469	-8.10	9.78	0.10	
	11/16/2010	13:05	13:10	12.09	14.03	7.02	0.230	115.80	9.71	0.80	
	12/14/2010	11:20	11:25	11.03	11.04	7.13	0.318	-139.20	3.51	0.00	System Off
	1/17/2011	9:06	9:11	11.74	8.93	7.18	0.333	24.90	10.46	0.00	
	2/16/2011	11:06	11:11	12.61	9.90	7.14	0.969	56.20	7.41	0.00	
	3/16/2011	10:06	10:11	9.21	5.53	7.45	0.329	-121.60	12.41	0.00	
	4/14/2011	12:30	12:35	9.76	4.28	7.39	0.251	-339.60	11.80	0.00	
	5/18/2011	9:46	9:51	8.36	7.51	7.71	0.331	-195.10	9.98	0.00	
	6/15/2011	10:30	10:35	9.34	11.37	7.34	0.270	67.80	10.61	0.00	
	7/11/2011	10:57	11:02	10.26	13.27	7.18	0.371	-296.10	9.50	0.00	
3805-MWS3	12/19/2008	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	1/12/2009	13:55	14:19	14.28	9.22	7.18	0.144	31.60	0.86	0.0	
	1/19/2009	13:36	13:46	14.55	8.28	8.26	0.149	22.50	12.81	0.0	
	2/4/2009	14:39	15:05	15.29	7.49	7.08	0.145	27.40	1.01	0.1	
	3/4/2009	16:08	16:35	14.72	7.88	6.98	0.081	76.50	10.18	0.0	
	3/27/2009	14:32	15:02	15.02	8.02	7.02	0.125	71.40	7.91	0.0	
	4/14/2009	12:35	12:40	14.81	7.69	6.89	0.123	178.40	11.31	0.0	
	5/18/2009	14:23	14:28	15.38	8.20	7.64	0.104	155.20	11.93	0.0	
	6/24/2009	11:00	11:05	15.31	9.98	7.05	0.093	136.90	13.21	1.0	
	7/29/2009	11:16	11:21	16.11	11.75	8.81	0.116	176.00	10.76	0.5	
	8/27/2009	13:46	13:51	16.75	11.16	7.39	0.494	96.10	10.74	0.0	
	9/15/2009	14:15	14:20	10.14	15.35	7.41	0.276	-27.70	9.36	0.0	
	10/12/2009	13:10	13:15	17.84	10.93	7.27	1.786	138.50	9.63	0.0	
	11/12/2009	13:37	13:42	18.19	11.79	7.02	2.287	106.30	12.87	0.2	
	12/15/2009	13:11	13:16	18.48	10.40	7.16	2.528	150.90	11.63	0.0	
	1/12/2010	10:50	10:55	18.57	9.52	7.03	3.196	164.40	9.53	0.0	
	2/9/2010	11:13	11:18	17.21	9.28	7.22	1.186	111.20	9.22	0.0	
	3/9/2010	10:46	10:51	18.94	9.34	7.17	0.754	79.20	9.70	0.0	
	4/13/2010	11:33	11:38	18.46	9.33	7.09	0.884	-25.10	10.62	0.1	
	5/11/2010	13:00	13:05	19.06	8.75	7.15	0.600	94.90	9.88	0.00	
	6/15/2010	11:28	11:33	19.54	9.70	6.63	0.674	-7.80	12.09	0.3	
	7/13/2010	8:27	8:32	19.82	10.31	6.75	0.997	131.80	12.01	0.0	
	8/11/2010	13:52	13:57	19.88	11.36	6.95	0.625	45.90	10.61	0.1	
	9/15/2010	10:47	10:52	20.01	11.15	7.26	0.617	57.60	10.75	0.0	
	10/12/2010	11:58	12:03	18.71	12.01	7.11	0.573	-19.20	7.37	0.0	
	11/16/2010	13:45	13:50	18.04	11.96	6.74	0.513	63.10	8.02	0.9	
	12/14/2010	11:36	11:41	17.86	11.23	6.84	0.658	-129.90	1.75	0.0	System Off
	1/17/2011	9:18	9:23	17.76	9.42	7.39	0.188	-4.00	10.94	0.0	
	2/16/2011	10:46	10:51	18.54	9.93	6.72	3.999	65.30	8.68	0.0	
	3/16/2011	9:52	9:57	10.93	8.24	7.10	0.429	-120.40	11.73	0.1	
	4/14/2011	12:38	12:43	16.54	8.07	6.93	1.001	-332.10	9.83	0.0	
	5/18/2011	9:37	9:42	15.57	8.55	7.61	0.502	-197.40	10.41	6.9	
	6/15/2011	10:18	10:23	15.21	9.61	7.35	0.346	56.60	11.99	2.1	
	7/11/2011	10:34	10:39	16.36	11.07	7.15	0.813	-251.90	8.74	0.0	
<b>System C</b>											
OSL-MW3	12/18/2008	NR	NR	NR	NR	NR	NR	177.60	15.82	0.0	
	1/12/2009	9:15	10:00	19.96	11.26	6.92	0.338	149.10	0.66	0.4	
	1/19/2009	11:30	11:45	19.14	11.06	7.33	1.036	25.70	10.76	0.3	Well bubbling
	2/4/2009	10:25	10:43	20.63	10.43	7.08	0.382	100.30	0.43	6.4	
	3/4/2009	10:48	11:26	20.52	10.20	6.73	0.231	96.60	5.29	0.0	
	3/26/2009	14:40	15:01	20.21	10.19	6.96	0.442	118.20	6.29	13.3	Well bubbling
	4/14/2009	8:37	8:42	20.76	8.96	7.34	1.030	144.10	10.61	0.0	

**TABLE 3-10  
SUMMARY OF DO/ORP/PID DATA  
AREAS 1995 AND 3805**

<b>Monitoring Well</b>	<b>Date</b>	<b>Start Time</b>	<b>End Time</b>	<b>DTW</b>	<b>Temp</b>	<b>pH</b>	<b>Conductivity</b>	<b>ORP (mV)</b>	<b>DO</b>	<b>PID (ppm)</b>	<b>Notes</b>
	5/18/2009	11:15	11:20	21.31	9.61	7.28	1.093	195.70	8.76	0.0	
	6/24/2009	8:27	8:32	20.74	10.04	6.70	3.362	72.90	1.68	2.6	
	7/29/2009	12:44	12:49	21.32	11.70	8.96	0.538	-42.90	0.53	0.1	
	8/27/2009	10:14	10:20	21.75	11.36	7.52	0.324	-82.20	0.32	15.7	
	9/15/2009	10:43	10:48	22.03	11.32	6.89	0.250	-6.10	4.09	24.9	
	10/12/2009	9:48	9:53	21.78	10.57	6.85	0.844	20.20	6.86	163.7	
	11/12/2009	9:17	9:22	22.74	10.72	6.75	0.187	-51.10	4.30	5.4	
	12/15/2009	9:30	9:35	22.94	10.66	6.97	0.228	-18.90	1.25	11.3	
	1/12/2010	14:35	14:40	23.06	9.77	6.83	0.935	-26.80	1.55	35.8	
	2/9/2010	9:36	9:41	22.86	9.88	6.85	0.703	139.60	2.33	5.9	
	3/9/2010	7:36	7:41	23.16	10.61	6.68	0.456	167.10	5.45	3.7	
	4/13/2010	8:22	8:27	23.11	9.80	6.79	0.453	36.70	7.21	0.6	
	5/11/2010	7:44	7:49	23.64	9.87	6.20	0.601	82.10	2.24	10.60	
	6/15/2010	7:53	7:58	24.02	10.84	6.15	1.791	-19.80	3.95	1.4	
	7/13/2010	7:08	7:13	24.26	10.67	6.54	1.521	-62.10	12.31	0.2	
	8/11/2010	9:56	10:01	24.26	12.03	6.39	0.599	24.20	4.21	0.2	
	9/15/2010	8:14	8:19	24.18	11.04	6.60	0.797	92.70	1.98	0.0	
	10/12/2010	9:16	9:21	23.23	11.57	6.68	0.823	74.70	2.56	0.7	
	11/16/2010	11:33	11:38	22.93	12.40	7.22	0.262	-49.10	2.33	0.0	
	12/14/2010	9:22	9:27	22.32	11.16	6.74	0.992	-121.10	0.40	0.0	System off
	1/17/2011	8:26	8:31	22.30	10.60	7.09	0.584	97.00	8.02	2.8	
	2/16/2011	8:14	8:19	22.94	11.30	7.01	1.107	104.20	6.27	8.4	
	3/16/2011	8:05	8:10	21.73	10.10	7.22	0.527	-130.00	10.97	0.0	
	4/14/2011	9:08	9:13	21.76	9.83	7.00	0.338	-329.40	9.18	0.4	
	5/18/2011	7:35	7:40	21.19	10.67	6.86	1.038	-149.80	7.00	5.4	
	6/15/2011	9:40	9:45	21.38	10.84	6.52	2.240	27.30	1.91	0.0	
	7/11/2011	9:14	9:19	21.59	11.10	6.80	2.500	-289.90	8.91	0.0	
3805-MWS8	12/18/2008	NR	NR	NR	NR	NR	NR	-41.20	2.51	0.0	
	1/12/2009	10:23	10:46	22.80	10.58	7.09	0.446	85.30	8.96	0.0	
	1/19/2009	9:15	9:30	23.15	8.65	7.46	0.003	179.40	12.20	0.0	
	2/4/2009	10:30	10:47	23.80	9.76	6.77	0.244	146.10	0.04	0.0	
	3/4/2009	10:54	11:36	23.35	10.45	6.86	0.331	41.50	6.32	0.0	
	3/26/2009	15:13	15:30	23.48	9.52	7.17	0.228	143.20	8.29	0.0	
	4/14/2009	9:40	9:45	23.62	8.83	7.68	0.393	70.90	8.74	0.0	
	5/18/2009	11:04	11:09	24.14	9.16	7.42	0.194	208.50	11.38	0.0	
	6/24/2009	7:52	7:57	24.13	9.93	6.36	2.212	35.60	0.78	4.7	
	7/29/2009	13:13	13:18	24.81	10.46	7.75	1.189	43.90	1.23	0.0	
	8/28/2009	10:41	10:46	25.38	9.39	6.45	3.460	-34.40	1.02	0.0	
	9/15/2009	11:16	11:21	25.76	9.68	6.75	0.793	-39.40	11.26	0.0	
	10/12/2009	9:29	9:34	26.21	9.43	6.54	1.505	24.80	1.72	0.0	
	11/12/2009	9:53	9:58	26.58	10.02	6.63	0.521	-32.00	2.59	0.3	
	12/15/2009	9:56	10:01	26.31	10.24	6.99	0.954	-66.40	1.29	0.0	
	1/12/2010	14:54	14:59	26.85	10.09	6.69	1.027	-47.80	1.62	0.7	
	2/9/2010	10:06	10:11	26.52	9.95	6.80	0.530	78.90	1.59	0.0	
	3/9/2010	8:00	8:05	27.12	9.83	6.75	0.520	-57.50	1.25	0.0	
	4/13/2010	8:47	8:52	26.67	10.18	6.70	0.560	-0.10	1.44	0.0	
	5/11/2010	8:08	8:13	27.21	9.41	6.77	0.609	-48.50	0.74	0.00	
	6/15/2010	8:38	8:43	27.69	9.91	6.42	1.126	-52.00	1.03	0.0	
	7/13/2010	7:35	7:40	27.97	10.11	6.70	1.468	-77.00	11.83	0.0	
	8/11/2010	10:22	10:27	28.17	10.13	6.53	1.892	-84.00	2.32	0.0	
	9/15/2010	8:42	8:47	28.21	9.71	6.53	2.063	65.10	1.58	0.0	
	10/12/2010	9:41	9:46	27.28	10.61	6.77	1.162	-59.50	1.93	0.0	
	11/16/2010	11:51	11:56	26.61	11.17	6.73	0.539	-45.80	2.37	0.0	
	12/14/2010	10:03	10:08	26.29	10.69	6.70	0.715	-151.90	0.11	0.0	System off
	1/17/2011	8:51	8:56	25.92	10.13	7.07	0.491	-55.80	5.28	0.0	
	2/16/2011	8:39	8:44	26.48	10.99	6.85	1.016	-125.50	1.06	0.0	
	3/16/2011	8:27	8:32	25.21	10.25	6.91	0.489	-127.50	1.04	0.1	
	4/14/2011	9:31	9:36	24.81	10.29	6.74	0.680	-320.70	6.55	0.0	
	5/18/2011	8:26	8:31	24.20	10.13	6.95	0.438	-186.70	2.07	0.2	
	6/15/2011	10:02	10:07	24.41	10.21	6.56	2.822	-73.10	0.42	0.0	
	7/11/2011	9:35	9:40	24.90	10.18	6.69	3.312	-352.10	2.15	0.0	
3805-MWS11	12/18/2008	NR	NR	NR	NR	NR	NR	201.70	11.78	0.0	
	1/12/2009	10:10	10:38	26.90	11.61	6.63	1.603	-58.80	0.17	0.0	
	1/19/2009	8:50	9:10	27.00	10.08	6.92	0.002	201.10	7.30	0.0	
	2/4/2009	10:50	11:12	27.39	11.44	6.48	1.373	-34.50	0.34	16.2	
	3/4/2009	11:34	12:14	27.15	12.56	6.72	0.772	-17.70	1.12	0.0	
	3/26/2009	14:58	15:27	27.34	8.48	6.86	0.006	-6.20	10.41	0.0	
	4/13/2009	9:28	9:33	27.46	11.47	6.95	1.860	-111.00	2.95	0.0	
	5/18/2009	10:25	10:30	27.66	12.65	6.69	1.130	-15.60	3.89	0.0	
	6/24/2009	8:07	8:12	27.72	12.32	6.73	1.079	-120.80	0.83	36.3	
	7/29/2009	13:02	13:07	28.30	13.27	7.94	1.326	-89.80	1.27	130.2	
	8/27/2009	10:29	10:34	28.35	11.81	6.50	1.697	-114.20	0.36	207.1	
	9/15/2009	10:55	11:00	28.59	11.88	6.43	1.674	-78.10	9.41	0.1	
	10/12/2009	9:05	9:10	28.93	11.25	6.58	1.425	-95.90	0.51	11.5	
	11/12/2009	9:32	9:37	29.12	10.95	6.82	1.441	-111.50	13.40	48.9	
	12/15/2009	9:40	9:45	29.23	11.18	7.16	0.728	-77.60	1.05	0.0	
	1/12/2010	14:47	14:52	29.28	10.93	7.09	0.687	-62.60	0.99	1.1	
	2/9/2010	9:54	9:59	29.07	11.01	6.98	0.434	100.40	1.30	0.6	
	3/9/2010	7:47	7:52	29.39	11.00	6.77	0.305	-84.30	1.08	0.0	
	4/13/2010	8:34	8:39	29.18	11.34	6.82	0.337	-4.10	0.98	0.0	
	5/11/2010	7:56	8:01	29.46	10.86	6.68	0.278	-46.50	0.89	0.20	
	6/15/2010	8:25	8:30	29.77	11.64	6.48	0.293	-43.70	1.01	0.2	
	7/13/2010	7:23	7:28	29.99	11.27	6.77	0.432	-112.20	1.76	0.4	
	8/11/2010	10:09	10:14	30.12	11.02	6.79	0.366	-122.00	0.68	0.4	
	9/15/2010	8:30	8:35	30.14	10.39	6.55	0.359	63.40	1.34	0.0	
	10/12/2010	9:30	9:35	29.62	10.88	6.63	0.379	-78.00	1.00	0.0	
	11/16/2010	13:31	13:36	29.18	11.14	6.55	0.396	-82.60	0.82	0.6	
	12/14/2010	9:45	9:50	28.91	10.47	6.75	0.444	-147.20	0.04	0.0	System off
	1/17/2011	8:40	8:45	28.64	11.16	6.62	0.697	-135.20	0.78	0.1	
	2/16/2011	8:29	8:34	28.97	11.46	6.81	0.729	-115.70	1.29	17.7	

TABLE 3-10  
SUMMARY OF DO/ORP/PID DATA  
AREAS 1995 AND 3805

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
	3/16/2011	8:17	8:22	28.29	11.18	6.66	0.991	-127.70	0.89	0.5	
	4/14/2011	9:20	9:25	28.09	10.87	6.71	0.841	-365.70	1.55	0.0	
	5/18/2011	0:43	7:48	27.78	11.58	7.12	1.022	-291.50	0.59	0.5	
	6/15/2011	9:52	9:57	27.88	11.89	6.54	1.408	-99.00	0.05	4.4	
	7/11/2011	9:25	9:30	28.06	11.70	6.74	1.243	-363.80	2.13	0.4	
<b>System D</b>											
1995-MW44	12/19/2008	NR	NR	NR	NR	NR	NR	167.3	12.45	0.0	
	12/31/2008	NR	NR	NR	NR	NR	NR	146.6	42.00	0.0	
	1/12/2009	8:00	8:15	23.56	11.50	7.25	0.285	146.1	8.00	0.0	
	1/19/2009	8:08	8:35	23.45	11.66	7.53	0.239	162.3	11.67	0.0	
	2/4/2009	9:30	9:45	24.00	11.53	6.74	0.256	141.2	0.06	0.0	
	3/4/2009	13:18	13:40	23.62	11.62	6.98	0.241	74.2	10.69	0.0	
	3/27/2009	10:50	11:23	23.95	11.21	7.33	0.306	166.9	9.11	0.0	
	4/14/2009	10:19	10:24	24.17	9.98	7.32	0.003	204.50	9.49	0.00	
	5/18/2009	11:53	11:58	24.03	10.56	7.38	0.295	153.40	12.17	0.00	
	6/24/2009	9:04	9:09	23.44	10.40	6.97	0.309	150.10	12.71	0.00	
	7/29/2009	13:30	13:35	24.19	10.68	8.62	0.265	69.80	10.87	0.00	
	8/27/2009	11:06	11:11	24.76	10.84	6.85	0.292	76.80	12.04	0.00	
	9/15/2009	11:36	11:41	25.14	11.08	7.08	0.339	-18.30	12.67	0.00	
	10/12/2009	10:05	10:10	25.54	10.97	7.02	1.043	108.60	9.88	0.00	
	11/12/2009	10:08	10:13	26.02	11.26	7.00	0.432	9.20	10.95	0.00	
	12/15/2009	10:25	10:30	26.34	10.54	7.43	0.375	-39.80	11.93	0.0	
	1/12/2010	14:11	14:16	26.69	10.40	7.11	0.629	-18.40	10.58	0.00	
	2/9/2010	10:30	10:35	26.64	10.51	7.01	0.738	81.60	10.10	0.00	
	3/9/2010	10:00	10:05	27.26	10.62	6.96	0.308	47.20	10.34	0.00	
	4/13/2010	10:20	10:25	27.06	10.57	7.08	0.363	2.10	10.78	0.00	
	5/11/2010	9:45	9:50	27.31	10.30	7.02	0.336	39.90	11.03	0.00	
	6/15/2010	9:07	9:12	27.64	10.31	6.79	0.268	0.40	12.31	0.10	
	7/13/2010	8:00	8:05	27.78	10.30	6.96	0.455	92.20	11.92	0.00	
	8/11/2010	13:00	13:05	27.88	10.60	7.02	1.260	65.70	12.87	0.00	
	9/15/2010	9:03	9:08	27.94	10.33	6.92	0.997	66.50	10.61	0.00	
	10/12/2010	10:06	10:11	26.11	11.28	6.78	3.111	15.50	8.84	0.00	
	11/16/2010	11:19	11:24	26.42	11.78	7.24	0.391	93.70	12.83	0.00	
	12/14/2010	10:34	10:39	26.02	11.14	7.22	0.521	-110.20	4.19	0.00	System off
	1/17/2011	11:50	11:55	26.24	10.95	7.53	0.649	-181.40	10.13	0.00	
	2/16/2011	11:35	11:40	26.86	11.19	7.71	0.368	62.90	10.63	0.00	
	3/16/2011	7:52	7:57	25.33	10.48	6.90	2.041	-127.40	10.70	0.00	
	4/14/2011	12:20	12:25	25.13	10.49	7.01	0.563	-307.20	9.90	0.00	DO membrane replaced and recalibrated.
	5/18/2011	10:05	10:10	23.99	10.29	7.47	0.291	-195.50	9.92	0.00	
	6/15/2011	9:24	9:29	23.81	10.08	7.02	2.910	144.10	13.85	0.00	
	7/11/2011	11:17	11:22	24.51	10.53	7.25	0.295	-306.70	10.52	0.00	
1995-MWS1	12/19/2008	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	12/31/2008	NR	NR	NR	NR	NR	NR	117.7	10.66	0.0	
	1/12/2009	12:47	13:09	18.10	10.28	7.20	0.186	117.8	11.26	1.1	
	1/19/2009	10:15	10:30	18.35	9.30	7.79	0.269	187.7	13.33	1.8	
	2/4/2009	13:18	13:37	18.89	10.46	7.00	1.084	168.7	0.02	0.0	
	3/4/2009	14:53	15:26	18.73	9.41	7.84	0.090	6.6	10.57	0.0	
	3/27/2009	12:30	13:16	19.00	8.63	7.61	0.553	145.7	10.19	0.0	
	4/14/2009	11:29	11:34	19.07	8.24	7.41	0.813	159.6	9.54	0.0	
	5/18/2009	13:38	13:43	19.09	13.10	6.44	0.002	252.0	11.31	0.0	
	6/24/2009	9:51	9:56	18.48	10.07	7.41	0.808	87.6	12.64	0.9	
	7/29/2009	14:05	14:10	19.31	11.30	8.79	0.424	61.9	10.53	0.9	
	8/27/2009	13:08	13:14	19.81	11.54	6.56	0.787	88.7	12.91	1.4	
	9/15/2009	13:36	13:41	20.19	11.51	6.68	0.515	-12.6	10.60	0.6	
	10/12/2009	11:21	11:26	20.84	11.41	6.77	1.046	109.10	9.56	0.4	
	11/12/2009	11:32	11:37	20.21	11.78	7.02	1.224	72.1	12.63	0.0	
	12/15/2009	11:47	11:52	21.59	11.05	7.44	0.685	75.00	10.78	7.4	
	1/12/2010	13:29	13:34	23.79	10.25	7.13	1.026	40.1	9.41	4.1	
	2/9/2010	13:02	13:07	21.73	9.64	8.03	0.407	99.7	9.84	2.4	
	3/9/2010	11:26	11:31	22.34	10.51	7.47	0.372	96.8	9.70	3.5	
	4/13/2010	13:24	13:29	22.16	10.12	7.56	0.240	77.5	12.61	1.9	
	5/11/2010	11:10	11:15	22.24	10.03	7.31	0.661	27.20	10.80	2.60	
	6/15/2010	13:16	13:21	22.96	10.65	6.75	1.834	-2.4	12.42	2.3	
	7/13/2010	9:28	9:33	23.21	9.73	7.03	2.631	132.0	11.63	2.4	
	8/11/2010	11:14	11:19	23.05	11.33	7.24	1.550	79.2	10.21	0.5	
	9/15/2010	10:15	10:20	22.96	10.79	7.34	1.109	41.7	10.92	0.0	
	10/12/2010	10:48	10:53	21.60	12.61	6.89	0.253	-3.3	9.71	0.3	
	11/16/2010	12:36	12:41	21.51	12.89	7.31	0.149	75.1	10.16	0.0	
	12/14/2010	13:36	13:41	21.14	11.83	7.14	0.158	-129.8	8.01	0.2	System off
	1/17/2011	10:00	10:05	21.17	11.24	7.72	0.181	26.4	10.08	0.0	
	2/16/2011	9:57	10:02	21.94	11.39	7.65	1.091	-9.8	10.52	0.0	
	3/16/2011	9:11	9:16	20.61	9.94	7.25	0.234	-126.5	11.32	0.1	
	4/14/2011	10:24	10:29	20.63	10.06	7.39	0.429	-330.2	11.72	0.0	
	5/18/2011	9:08	9:13	19.65	9.91	7.11	1.831	-187.9	10.35	0.0	
	6/15/2011	11:03	11:08	19.41	9.75	7.34	0.206	115.40	13.01	0.30	
	7/11/2011	10:10	10:15	19.89	10.54	6.88	3.268	-269.6	10.76	0.0	
1995-MWS10	12/19/2008	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	12/31/2008	NR	NR	NR	NR	NR	NR	121.7	5.22	0.0	
	1/12/2009	13:14	13:46	20.55	11.71	6.79	0.380	-84.1	0.41	0.0	
	1/19/2009	10:35	10:50	20.60	11.53	7.29	-0.311	-67.7	0.67	0.0	
	2/4/2009	13:38	13:52	21.21	10.88	6.73	0.312	-41.1	0.21	102.6	
	3/4/2009	15:21	15:48	19.97	9.73	7.16	0.002	-1.7	11.51	50.9	
	3/27/2009	13:24	13:49	21.17	10.49	7.03	0.262	-143.7	0.21	1.9	
	4/14/2009	11:06	11:11	21.31	10.14	6.98	0.292	-122.2	0.92	63.4	
	5/18/2009	13:00	13:05	22.08	10.16	7.41	0.311	13.6	14.41	27.7	
	6/24/2009	9:25	9:30	20.89	10.84	5.86	0.002	228.9	10.98	40.5	
	7/29/2009	14:28	14:33	21.63	10.51	8.18	0.314	-72.4	1.69	21.4	
	8/27/2009	12:45	12:50	22.11	10.42	6.49	0.284	-53.4	1.79	34.3	
	9/15/2009	13:12	13:17	22.49	11.16	6.26	0.152	-15.1	12.83	80.1	

TABLE 3-10  
SUMMARY OF DO/ORP/PID DATA  
AREAS 1995 AND 3805

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
	10/12/2009	10:58	11:03	27.18	11.43	7.57	1.868	7.1	11.04	37.8	
	11/12/2009	10:42	10:47	22.98	12.61	8.27	0.756	-17.2	11.61	7.8	
	12/15/2009	11:25	11:30	23.76	10.47	7.94	1.264	94.00	4.25	24.2	
	1/12/2010	13:02	13:07	23.49	11.50	6.96	0.440	-17.0	1.37	161.3	
	2/9/2010	13:26	13:31	23.57	12.78	8.19	0.777	101.2	11.08	9.6	
	3/9/2010	11:47	11:52	23.96	11.15	7.55	1.805	125.0	11.23	53.6	Well bubbling, possible direct pathway from 12-2A
	4/13/2010	13:06	13:11	23.82	11.72	7.50	2.340	66.1	11.27	4.2	Well bubbling
	5/11/2010	10:38	10:43	24.11	11.56	7.42	2.600	-12.60	10.14	38.70	
	6/15/2010	12:46	12:51	24.38	11.57	7.52	2.021	-0.4	12.03	39.1	Well bubbling
	7/13/2010	9:07	9:12	26.82	11.34	7.76	1.187	56.9	10.54	11.4	
	8/11/2010	11:35	11:40	24.72	12.68	8.38	0.910	52.6	14.83	5.1	Well bubbling
	9/15/2010	9:53	9:58	24.60	12.97	8.49	0.951	71.3	12.50	10.3	Well bubbling
	10/12/2010	11:16	11:21	23.62	11.43	7.30	2.217	-12.1	2.55	13.8	Well bubbling
	11/16/2010	12:19	12:24	23.68	14.26	7.07	0.230	5.7	1.06	7.9	
	12/14/2010	14:07	14:12	23.38	13.43	6.57	0.172	-172.8	0.81	3.5	System off
	1/17/2011	10:27	10:32	22.39	11.46	7.30	2.037	-275.1	0.30	5.8	Well bubbling
	2/16/2011	9:30	9:35	23.23	12.67	7.50	1.623	-85.0	8.73	0.4	Well bubbling
	3/16/2011	8:54	8:59	22.21	12.44	8.17	1.785	-130.2	11.82	2.3	Well bubbling
	4/14/2011	10:10	10:15	22.48	17.35	6.97	1.156	-321.2	8.33	25.5	
	5/18/2011	8:52	8:57	21.41	12.06	8.14	0.901	-185.2	12.10	3.9	Well bubbling
	6/15/2011	11:26	11:31	21.47	11.52	6.88	0.759	130.50	10.55	4.40	
	7/11/2011	9:55	10:00	21.97	11.18	7.10	0.614	-366.0	8.98	3.3	
1995-MWS6	12/19/2008	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	12/31/2008	NR	NR	NR	NR	NR	NR	110.1	6.10	0.0	
	1/12/2009	12:52	13:20	21.35	10.96	7.10	1.062	-3.5	0.39	0.0	
	1/19/2009	9:55	10:10	21.30	9.52	7.74	0.465	195.7	10.77	0.0	
	2/4/2009	13:10	13:33	21.80	10.57	6.98	0.677	23.6	0.24	0.0	
	3/4/2009	14:50	15:16	21.47	10.56	6.63	1.507	89.6	1.26	0.0	
	3/27/2009	12:24	13:10	21.68	10.37	6.73	1.642	-30.1	1.62	0.0	
	4/14/2009	11:18	11:23	21.84	10.24	7.27	0.644	73.40	4.16	0.00	
	5/18/2009	13:12	13:17	21.94	9.98	7.68	0.299	151.70	12.21	0.00	
	6/24/2009	9:37	9:42	21.46	10.68	7.03	0.551	148.50	8.81	0.10	
	7/29/2009	14:15	14:20	22.14	10.38	8.40	0.674	69.70	7.47	0.10	
	8/27/2009	12:56	13:02	22.65	11.08	6.81	1.240	0.60	8.06	0.00	
	9/15/2009	13:22	13:27	23.02	11.35	7.17	0.574	-35.60	7.80	0.10	
	10/12/2009	11:11	11:16	23.53	10.77	7.53	0.325	73.80	9.62	0.00	
	11/12/2009	11:05	11:10	23.86	10.71	7.32	0.313	50.00	9.69	0.00	
	12/15/2009	11:36	11:41	24.33	10.41	7.94	0.261	59.70	10.58	0.0	
	1/12/2010	13:16	13:21	24.47	10.41	7.15	0.562	18.00	8.80	0.40	Temperature not a copy of above
	2/9/2010	13:15	13:20	24.26	10.60	7.19	0.942	106.10	7.54	0.00	
	3/9/2010	11:37	11:42	24.76	10.55	6.71	1.321	136.90	6.34	0.00	
	4/13/2010	13:17	13:19	24.63	10.60	7.20	0.463	63.40	11.04	0.00	
	5/11/2010	10:54	10:59	25.00	10.31	7.20	0.441	-1.60	10.01	0.00	
	6/15/2010	13:02	13:07	25.46	10.43	6.93	0.737	-5.70	8.32	0.10	
	7/13/2010	9:16	9:21	25.74	10.72	7.00	0.847	102.60	10.74	0.00	
	8/11/2010	11:25	11:30	25.67	11.17	6.87	1.120	87.70	9.35	0.00	
	9/15/2010	10:05	10:10	25.60	10.52	7.44	1.665	52.60	9.25	0.00	
	10/12/2010	11:25	11:30	24.54	11.60	7.08	1.237	21.90	3.44	0.00	
	11/16/2010	12:27	12:32	24.26	12.18	7.15	1.692	50.10	2.90	0.00	
	12/14/2010	13:53	13:58	23.96	11.17	7.12	1.504	-174.90	0.25	0.30	System off
	1/17/2011	10:12	10:17	23.77	11.13	6.91	2.070	4.10	2.03	0.00	
	2/16/2011	9:43	9:48	24.37	11.13	7.64	0.489	-42.80	4.97	0.10	
	3/16/2011	9:03	9:08	23.17	10.68	7.35	0.785	-124.30	8.57	0.60	
	4/14/2011	10:17	10:22	22.88	10.66	6.83	1.520	-329.50	6.48	0.00	
	5/18/2011	9:00	9:05	22.17	12.06	8.14	0.793	-196.60	8.86	0.00	
	6/15/2011	11:16	11:21	21.92	10.14	6.94	0.601	130.40	11.63	0.00	
	7/11/2011	10:02	10:07	22.37	10.63	7.08	0.517	-301.70	5.20	0.00	
1995-MWS9	12/19/2008	NR	NR	NR	NR	NR	NR	194.0	12.95	0.0	
	12/31/2008	NR	NR	NR	NR	NR	NR	108.7	35.90	0.0	
	1/12/2009	11:15	11:32	20.50	11.51	6.15	1.995	6.1	0.06	0.4	
	1/19/2009	11:10	11:25	20.14	10.74	6.65	1.176	14.0	2.95	0.2	
	2/4/2009	11:23	11:54	29.50	11.56	6.05	3.711	29.5	0.97	0.0	
	3/4/2009	14:00	14:31	20.61	10.85	6.69	2.959	-19.8	1.25	0.0	
	3/27/2009	11:45	12:09	20.88	10.25	6.79	3.889	-94.3	3.52	0.0	
	4/14/2009	10:00	10:05	21.02	9.62	7.27	4.789	-61.30	2.20	2.60	
	5/18/2009	11:34	11:39	21.08	9.17	6.75	6.215	-54.80	1.80	2.20	
	6/24/2009	8:45	8:50	20.48	9.32	6.46	1.789	124.00	1.25	9.10	
	7/29/2009	13:50	13:55	21.21	9.75	8.00	3.491	-86.90	1.34	4.10	
	8/27/2009	11:38	11:43	21.72	10.40	6.63	2.699	-96.70	1.50	4.60	
	9/15/2009	12:56	13:01	22.09	11.10	6.61	2.689	-56.60	2.05	7.10	
	10/12/2009	10:38	10:43	22.58	10.43	6.56	2.679	-84.90	0.58	0.90	
	11/12/2009	10:22	NR	NR	NR	NR	NR	NR	NR	NR	DTP 22.98, DTW 23.00, LNAPL confirmed with bailer, product removed with bailer.
	12/15/2009	11:43	11:45	23.30	NR	NR	NR	NR	NR	NR	DTP 23.29, DTW 23.30, LNAPL confirmed with bailer, product removed with bailer.
	1/12/2010	13:47	13:52	23.59	10.85	6.87	2.293	-64.80	1.61	106.30	
	2/9/2010	13:47	13:52	23.51	10.99	7.07	0.979	86.60	1.37	358.40	
	3/9/2010	12:03	12:08	24.08	11.14	6.71	2.039	-67.40	1.28	238.40	
	4/13/2010	10:56	11:01	23.97	10.81	6.53	1.815	-19.70	1.00	159.60	
	5/11/2010	10:21	10:26	24.27	10.17	6.43	3.161	-46.90	0.21	102.00	
	6/15/2010	11:05	11:10	24.66	10.60	6.30	4.814	-41.90	0.84	124.90	
	7/13/2010	9:42	9:47	24.84	10.50	6.47	3.890	-60.80	1.25	174.30	
	8/11/2010	13:30	13:35	24.81	10.28	6.63	4.530	88.90	1.32	99.30	
	9/15/2010	11:10	11:15	24.87	10.50	6.80	3.448	54.20	1.68	41.40	
	10/12/2010	10:31	10:36	23.24	10.69	6.63	1.986	-62.30	0.35	110.80	

**TABLE 3-10  
SUMMARY OF DO/ORP/PID DATA  
AREAS 1995 AND 3805**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
	11/16/2010	13:16	13:21	23.33	12.28	6.63	1.067	-108.30	6.76	10.80	
	12/14/2010	14:20	14:25	22.98	11.72	6.63	1.226	-212.50	0.01	9.40	System off
	1/17/2011	12:19	12:24	23.06	11.41	6.77	0.940	-221.30	1.25	22.70	
	2/16/2011	9:10	9:15	23.74	11.30	6.65	2.564	-101.80	1.47	9.80	
	3/16/2011	9:23	9:28	22.24	11.09	6.58	2.789	-131.80	1.05	6.70	
	4/14/2011	10:33	10:38	22.18	10.57	6.28	3.808	-369.30	0.92	9.10	
	5/18/2011	9:19	9:24	21.19	10.56	6.37	6.808	-271.10	1.24	14.30	
	6/15/2011	11:41	11:46	20.91	10.30	6.31	5.439	-32.50	0.46	45.60	
	7/11/2011	10:43	10:48	21.50	9.89	6.69	4.382	-347.30	3.30	41.30	

**Notes:**

NR = Not Recorded  
DTW = Depth to Water (feet)  
Temp = Temperature (degrees Fahrenheit)  
ORP = Oxidation Reduction Potential  
mV = Millivolts  
DO = Dissolved Oxygen (milligrams per liter)  
PID = Photoionization Detector  
ppm = Parts Per Million



**TABLE 3-11  
SUMMARY OF ESTIMATED CONTAMINANT REMOVAL  
AAFES STATION**

<b>Monitoring Date</b>	<b>Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)</b>	<b>Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)</b>	<b>LNAPL Recovery (gal)</b>
<b>May</b>	1.13	0.18	0
<b>June</b>	0.60	0.10	0
<b>July</b>	0.03	0.00	0
<b>Quarter Total</b>	1.75	0.28	0
<b>Total to Date<sup>(a)</sup></b>	15,072.69	2,400.11	0

<sup>(a)</sup> = Total includes contaminant removed during operation of the dual-phase extraction system only. An additional 1,426 gallons of gasoline equivalent was removed during operation of the pump and treat system (March 1996-December 2001).

Note: The system was deactivated on September 24, 2010, as the Ozone injection system is now running the site.

**TABLE 3-12  
CUMULATIVE VOLUME OF TREATED GROUNDWATER  
AAFES STATION**

<b>Description</b>	<b>May</b>	<b>June</b>	<b>July</b>	<b>Total/Average</b>
<b>Gallons</b>	0	0	0	0
<b>Hours Operated</b>	730	346	691	1,767
<b>Days Operated</b>	30	14	29	74
<b>Average (gal/min)</b>	0.00	0.00	0.00	0.00

Note: The system was deactivated on September 24, 2010. The Ozone injection system is now running the site.  
The system was reactivated on April 4, 2011, while the ozone system undergoes repairs.

**TABLE 3-13  
SUMMARY OF DO/ORP/PID DATA  
AAFES STATION (BUILDING P-2140)**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
2140-MW01	12/16/2008	NR	NR	NR	NR	NR	NR	275.20	10.23	0.00	
	1/12/2009	17:09	17:31	20.67	11.71	6.90	0.164	66.60	10.98	0.00	
	1/19/2009	14:40	14:50	21.34	11.36	7.22	0.389	63.17	11.08	0.00	
	2/2/2009	14:57	15:17	21.42	12.00	6.82	0.211	128.70	0.38	0.70	Detectable fumes present before opening well
	3/5/2009	8:35	9:02	21.61	11.53	7.02	0.613	134.90	9.02	0.00	
	3/26/2009	11:07	11:20	21.71	10.20	7.32	0.452	25.60	10.75	0.00	
	4/13/2009	13:25	13:30	21.74	10.82	6.51	2.229	227.90	11.37	0.00	
	5/19/2009	13:04	13:09	21.66	10.00	6.29	7.754	220.80	12.80	0.00	
	6/24/2009	14:54	14:59	21.98	11.42	6.33	4.081	115.90	13.11	0.00	
	7/29/2009	15:30	15:35	22.36	11.00	7.89	3.080	93.60	10.97	0.00	
	8/27/2009	9:52	9:57	22.90	10.77	6.45	8.377	195.30	12.04	0.00	
	9/15/2009	15:32	15:37	23.34	11.19	6.63	6.470	10.10	10.67	0.00	
	10/12/2009	14:48	14:53	23.62	11.09	6.41	8.926	79.30	9.10	0.00	
	11/11/2009	10:57	11:02	24.02	11.51	6.32	6.367	82.00	10.91	0.00	
	12/14/2009	15:12	15:17	24.48	11.55	6.61	6.159	-14.50	9.16	0.70	
	1/14/2010	13:13	13:18	24.79	10.90	6.78	7.041	-13.80	7.20	2.20	
	2/8/2010	10:26	10:31	24.48	10.59	6.44	4.104	11.90	14.16	0.00	
	3/8/2010	11:46	11:51	24.72	11.11	6.66	2.523	18.20	9.84	0.00	
	4/12/2010	11:12	11:17	24.03	11.09	6.65	2.088	23.80	12.51	0.00	
	5/10/2010	11:10	11:15	24.18	10.26	6.65	2.480	13.80	10.19	0.00	
	6/14/2010	11:20	11:25	24.57	11.04	6.53	3.353	38.80	11.51	0.00	
	7/13/2010	11:18	11:23	24.42	10.55	6.58	3.545	158.40	13.29	0.00	
	8/10/2010	9:46	9:51	24.39	11.50	7.34	1.690	150.20	10.40	0.00	
	9/14/2010	14:02	14:07	24.37	11.47	7.22	1.968	32.60	10.52	0.00	
	10/11/2010	10:55	11:00	23.28	13.29	6.73	0.329	140.90	10.32	0.00	AS/SVE turned off ozone on
	11/15/2010	10:40	10:45	24.58	12.48	7.32	0.901	131.60	9.74	0.00	
	12/13/2010	13:04	13:09	23.24	12.46	7.40	0.667	-114.00	1.35	0.00	
	1/17/2011	13:24	13:29	23.54	11.99	7.68	0.535	-121.20	10.36	0.00	
	2/15/2011	8:00	8:05	24.26	12.36	6.99	1.651	137.30	9.78	0.00	
	3/16/2011	13:32	13:37	22.78	11.60	7.10	1.151	-150.00	10.51	0.00	
	4/14/2011	8:37	8:42	22.68	11.10	6.92	1.692	-294.20	9.87	0.00	
5/17/2011	11:38	11:43	21.68	11.04	6.80	5.339	-162.70	9.29	0.30		
6/15/2011	8:23	8:28	21.62	10.51	6.88	8.020	149.10	12.36	0.00		
7/11/2011	8:53	8:58	22.23	10.95	7.24	0.852	-290.80	10.52	0.00		
2140-MW05D	12/16/2008	NR	NR	NR	NR	NR	NR	NR	NR	NR	Well damaged: frost heave, can not put probe down
	1/12/2009	16:10	16:32	24.48	11.40	6.86	0.434	75.00	0.42	0.00	
	1/19/2009	14:15	14:20	25.56	11.40	8.00	2.249	47.80	12.19	28.30	
	2/2/2009	14:00	14:17	26.46	11.86	7.57	1.916	167.30	1.04	6.70	
	3/5/2009	7:55	8:22	26.16	11.77	7.87	1.293	26.00	12.05	0.00	
	3/26/2009	10:26	10:59	26.32	11.21	7.82	1.513	-9.70	11.20	0.00	
	4/13/2009	12:52	12:57	26.42	11.49	8.40	0.945	277.10	11.05	0.00	
	5/19/2009	14:01	14:05	26.62	11.12	8.06	1.628	206.00	11.08	0.00	
	6/24/2009	15:12	15:17	26.61	12.31	7.76	1.720	258.50	12.54	0.40	
	7/29/2009	15:23	15:28	27.17	11.03	8.77	1.566	-41.80	1.46	0.60	
	8/27/2009	9:30	9:35	27.82	11.75	7.55	1.657	148.40	3.82	4.90	
	9/16/2009	15:03	15:08	28.08	11.31	7.63	1.517	-99.80	1.07	0.10	
	10/13/2009	14:20	14:25	28.08	11.08	7.67	1.071	-148.50	1.19	0.00	
	11/11/2009	11:20	11:25	28.21	11.74	7.55	0.876	-86.10	4.47	0.10	
	12/14/2009	14:36	14:41	28.42	11.47	8.15	0.798	-96.70	2.16	0.30	
	1/14/2010	10:06	10:11	28.84	11.10	8.61	1.161	80.60	4.81	1.10	
	2/8/2010	9:16	9:21	28.54	11.24	7.59	0.870	115.70	6.38	0.00	
	3/8/2010	10:33	10:38	28.93	11.25	7.83	0.968	154.10	8.40	0.00	
	4/12/2010	10:46	10:51	28.43	11.46	7.77	0.966	18.80	9.45	0.20	
	5/10/2010	10:44	10:49	28.77	10.87	7.85	1.173	118.00	8.25	0.00	
	6/14/2010	10:47	10:52	28.61	11.98	7.30	3.552	33.60	12.29	0.20	
	7/13/2010	10:56	11:01	28.83	12.40	7.26	3.071	127.60	9.46	1.10	
	8/10/2010	9:09	9:14	28.69	12.12	7.41	3.090	38.60	5.28	0.00	
	9/14/2010	13:41	13:46	27.16	11.58	7.22	3.125	53.60	5.92	0.00	
	10/11/2010	10:33	10:38	28.21	12.27	7.59	2.011	89.70	9.96	0.10	AS/SVE turned off ozone on
	11/15/2010	10:24	10:29	27.97	12.31	7.51	2.198	132.70	8.63	0.00	
	12/13/2010	10:41	10:46	27.83	12.02	7.69	2.312	-78.70	0.19	0.00	
	1/17/2011	12:48	12:53	27.88	12.13	7.73	1.690	-169.60	3.88	0.00	
	2/15/2011	8:50	8:55	20.58	11.83	7.42	4.358	102.10	10.70	0.00	
	3/16/2011	13:05	13:10	27.18	11.61	7.83	1.631	-149.50	5.98	0.00	
	4/14/2011	7:59	8:04	26.71	11.54	7.52	1.704	-282.50	7.58	0.00	
5/17/2011	7:48	7:53	26.23	11.49	7.24	5.265	-122.40	10.53	0.10		
6/15/2011	7:51	7:56	26.88	11.05	7.65	1.892	132.90	10.91	0.00		
7/11/2011	8:25	8:30	27.14	11.27	7.64	1.933	-306.80	9.27	0.00		
2140-MW07	12/16/2008	NR	NR	NR	NR	NR	NR	160.10	4.66	12.10	
	1/12/2009	16:05	16:28	25.68	11.61	7.04	0.555	3.40	1.48	0.00	
	1/19/2009	14:00	14:10	24.65	10.95	7.20	0.916	51.00	6.92	6.51	
	2/2/2009	14:05	14:20	25.82	11.84	6.36	0.464	143.60	0.10	521.00	
	3/5/2009	9:03	9:36	26.33	11.92	6.65	0.543	41.60	0.67	58.70	
	3/26/2009	8:40	9:05	26.32	11.19	6.77	0.747	195.40	2.22	203.00	
	4/13/2009	12:50	13:04	26.61	10.98	7.09	0.736	204.90	1.74	135.00	
5/19/2009	13:35	13:40	26.62	11.37	6.80	2.123	188.30	3.40	106.10		
6/24/2009	15:38	15:42	26.47	11.64	6.83	1.197	82.00	1.07	50.30		

**TABLE 3-13  
SUMMARY OF DO/ORP/PID DATA  
AAFES STATION (BUILDING P-2140)**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
	7/29/2009	14:57	15:02	27.18	12.31	8.13	0.931	71.70	6.45	39.10	
	8/27/2009	9:38	9:44	28.04	10.71	6.74	6.642	11.50	2.37	2.90	
	9/15/2009	14:55	15:00	28.42	11.09	6.69	6.100	10.30	0.46	0.60	
	10/12/2009	14:33	14:38	28.77	10.81	7.04	5.431	-110.60	0.91	0.80	
	11/11/2009	11:09	11:14	28.53	11.20	6.67	4.961	-71.40	3.60	1,876.00	
	12/14/2009	14:44	14:49	29.04	11.09	7.32	4.036	-114.70	1.30	8.60	
	1/14/2010	12:36	12:41	20.59	11.01	7.27	5.966	-77.3	0.59	13.60	
	2/8/2010	9:42	9:47	29.41	10.93	6.66	5.1	79.8	3.82	3.60	
	3/8/2010	11:20	11:25	29.74	11.33	6.8	5.028	-102.5	1.19	2.50	
	4/12/2010	10:56	11:01	29.06	11.55	6.78	4.286	3.2	5.51	1.30	
	5/10/2010	10:56	11:01	29.46	10.98	6.84	4.626	-75.50	0.88	2.20	
	6/14/2010	11:02	11:07	29.62	11.92	7.14	3.230	-27.9	10.47	756.40	
	7/13/2010	11:07	11:12	29.97	11.41	7.18	2.551	83.7	9.06	1.50	
	8/10/2010	8:56	9:01	29.41	12.67	7.3	2.590	86.1	1.59	0.00	
	9/14/2010	13:52	13:57	27.96	11.73	7.81	2.692	40.4	10.38	159.3	
	10/11/2010	11:42	11:47	28.74	12.74	6.73	1.904	-126.6	0.44	1.6	AS/SVE turned off ozone on
	11/15/2010	10:31	10:36	28.46	11.68	7.34	2.091	76.6	8.01	0	
	12/13/2010	12:51	12:56	28.36	11.07	6.76	0.545	-111.3	1.21	7.1	Tubing down well
	1/17/2011	13:12	13:17	28.44	11.97	6.9	0.474	-138.3	1.25	0	
	2/15/2011	9:18	9:23	29.35	11.75	6.85	1.104	-100.4	1.12	0	
	3/16/2011	13:11	13:16	27.77	11.88	6.91	0.715	-145.3	1.67	0	
	4/14/2011	8:07	8:12	25.91	11.61	7.25	0.740	-267.7	10.52	361.1	
	5/17/2011	7:57	8:02	25.03	10.89	8.04	0.792	-149.8	10.73	0	Drop tube hooked to well
	6/15/2011	8:03	8:08	26.84	11.12	6.62	0.449	87.3	3.02	12.6	
	7/11/2011	8:32	8:37	27.21	11.26	7.27	1.197	-283.9	9.58	99.6	
2140-MW08	12/16/2008	NR	NR	NR	NR	NR	NR	246.90	12.72	0.00	
	1/12/2009	16:40	16:55	24.98	11.81	7.70	3.612	96.10	0.82	0.00	
	1/19/2009	14:22	14:32	27.50	11.90	8.74	0.616	52.70	12.02	0.00	
	2/2/2009	14:25	14:50	27.49	11.86	7.94	0.407	175.90	1.28	0.11	
	3/5/2009	7:50	8:31	26.71	11.70	8.05	0.646	136.10	11.10	0.00	Well bubbling
	3/26/2009	9:33	9:55	26.22	11.10	7.80	2.901	5.30	12.76	0.00	
	4/13/2009	12:43	12:48	26.34	11.62	8.17	2.018	193.80	14.14	0.00	
	5/19/2009	13:40	13:45	26.40	11.45	7.76	3.504	213.40	12.99	0.00	
	6/24/2009	16:02	16:07	27.01	11.40	7.55	3.453	137.20	12.72	0.00	
	7/29/2009	15:15	15:20	27.54	11.26	8.37	2.902	85.90	11.25	0.00	
	8/27/2009	9:09	9:14	28.05	11.44	7.34	3.220	215.90	12.35	0.00	
	9/16/2009	15:24	15:29	28.28	11.18	7.29	2.830	20.50	11.52	0.00	
	10/12/2009	13:58	14:03	28.03	11.10	7.79	3.873	112.70	11.81	0.00	
	11/11/2009	11:37	11:42	29.08	11.26	8.26	1.400	-18.50	11.15	0.00	
	12/14/2009	14:26	14:31	28.11	10.98	8.28	2.116	-108.60	12.14	0.00	
	1/14/2010	9:53	9:58	28.26	10.78	8.38	3.901	100.20	5.02	0.80	
	2/8/2010	9:06	9:11	27.83	10.28	7.14	3.616	145.80	11.27	0.20	
	3/8/2010	10:23	10:28	28.18	10.68	7.48	4.185	153.70	11.46	0.00	
	4/12/2010	10:18	10:23	27.62	11.31	7.37	4.590	-4.90	11.55	0.10	
	5/10/2010	10:20	10:25	27.97	11.02	7.37	5.563	168.50	10.78	0.00	
	6/14/2010	10:24	10:29	28.31	12.14	6.12	0.021	47.50	11.78	0.00	
	7/13/2010	10:31	10:36	28.53	11.18	7.99	3.803	91.30	12.61	0.00	
	8/10/2010	9:33	9:38	28.28	11.19	7.87	3.750	158.00	11.80	0.00	
	9/14/2010	13:17	13:22	28.08	10.86	7.84	2.140	53.30	10.21	0.00	
	10/11/2010	11:07	11:12	27.54	11.71	7.26	3.404	177.50	11.56	0.00	AS/SVE turned off ozone on
	11/15/2010	10:05	10:10	25.63	11.38	7.20	2.523	67.60	10.18	0.00	
	12/13/2010	10:28	10:33	27.28	10.98	7.53	4.973	-45.10	0.09	0.00	
	1/17/2011	12:40	12:45	27.56	11.17	7.41	4.501	-142.90	9.86	0.00	
	2/15/2011	8:43	8:48	27.99	11.52	7.24	6.425	98.70	10.20	0.00	
	3/16/2011	12:58	13:03	26.81	11.53	7.45	4.956	-158.10	9.28	0.00	
	4/14/2011	7:52	7:57	26.49	11.53	7.51	4.801	-256.20	11.14	0.00	
	5/17/2011	7:39	7:44	26.11	11.40	7.83	5.102	-97.00	10.08	0.00	
	6/15/2011	7:31	7:36	26.81	11.15	7.43	5.286	201.40	9.95	2.10	
	7/11/2011	8:19	8:24	27.34	11.21	7.27	5.074	-287.70	10.80	0.00	
2140-MW10	12/16/2008	NR	NR	NR	NR	NR	NR	297.20	10.32	0.00	
	1/12/2009	16:30	16:50	21.69	11.34	6.86	2.069	46.70	4.88	0.00	
	1/19/2009	14:36	14:42	21.75	11.29	8.11	2.071	62.30	11.69	14.20	
	2/2/2009	14:29	14:45	22.14	11.05	6.89	0.351	133.10	0.36	2.60	
	3/5/2009	9:39	10:06	21.93	10.70	6.64	0.183	150.20	8.74	3.20	
	3/26/2009	9:58	10:14	22.09	10.48	6.99	0.301	49.90	9.79	0.00	
	4/13/2009	13:08	13:13	22.33	10.92	7.16	0.190	209.40	6.26	0.00	
	5/19/2009	13:47	13:52	22.54	11.07	7.10	0.303	182.00	9.56	0.00	
	6/24/2009	15:50	15:55	22.71	10.94	6.51	1.431	111.30	4.26	0.00	
	7/29/2009	15:05	15:07	23.04	11.82	7.98	0.561	88.60	5.57	0.00	
	8/27/2009	9:20	9:25	23.40	11.76	7.79	0.001	194.40	11.54	0.00	
	9/15/2009	15:15	15:20	23.46	11.19	7.01	0.245	53.40	6.30	0.00	
	10/12/2009	14:08	14:13	23.55	11.18	7.23	0.281	121.30	7.59	0.00	
	11/11/2009	11:29	11:34	23.27	11.50	7.54	0.230	-28.20	9.92	0.00	
	12/14/2009	15:02	15:07	23.37	11.18	7.69	0.469	-99.60	11.30	1.20	
	1/14/2010	10:22	10:27	24.16	10.75	6.93	4.780	110.10	6.34	0.60	
	2/8/2010	9:27	9:32	23.76	11.08	6.58	6.415	158.90	9.26	0.00	
	3/8/2010	10:46	10:51	24.21	11.00	6.67	8.381	218.30	8.76	0.00	

**TABLE 3-13  
SUMMARY OF DO/ORP/PID DATA  
AAFES STATION (BUILDING P-2140)**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
	4/12/2010	10:34	10:39	23.66	10.99	6.71	8.108	-0.70	11.86	0.00	
	5/10/2010	10:33	10:38	24.15	10.55	7.26	4.239	150.10	8.36	0.00	
	6/14/2010	10:36	10:41	24.18	11.26	7.40	2.591	17.20	11.53	0.00	
	7/13/2010	10:46	10:51	24.33	12.02	7.68	0.694	100.00	12.33	0.30	
	8/10/2010	10:40	10:45	24.18	11.81	7.42	0.900	118.40	8.40	0.00	
	9/14/2010	13:29	13:34	23.71	11.02	7.30	2.466	54.50	8.23	16.60	
	10/11/2010	11:20	11:25	23.62	12.13	7.30	1.778	83.90	7.85	0.00	AS/SVE turned off ozone on
	11/15/2010	10:14	10:19	23.58	11.67	7.41	1.736	84.80	6.86	0.00	
	12/13/2010	10:50	10:55	23.32	10.79	7.41	1.621	-134.30	0.24	0.00	
	1/17/2011	13:01	13:06	23.42	11.48	7.89	0.619	-164.90	5.62	0.00	
	2/15/2011	9:05	9:10	24.05	11.20	7.42	1.209	-55.10	4.39	0.00	
	3/16/2011	13:21	13:26	22.73	11.22	6.87	1.757	-153.30	4.92	0.00	
	4/14/2011	8:14	8:19	22.32	11.11	7.02	1.059	-266.90	9.27	47.20	
	5/17/2011	8:04	8:09	22.18	10.89	7.47	0.999	-156.60	8.64	2.40	
	6/15/2011	7:40	7:45	22.66	10.76	7.50	0.394	29.50	8.92	0.00	
	7/11/2011	8:38	8:43	22.91	10.81	7.90	0.417	-323.70	3.37	0.00	
2140-MW12	12/16/2008	NR	NR	NR	NR	NR	NR	NR	NR	NR	Under snow/ice
	1/12/2009	15:17	15:45	17.77	11.26	6.80	2.279	-54.00	0.33	1.20	
	1/19/2009	15:00	15:10	18.00	11.95	8.02	2.692	24.70	12.41	8.30	
	2/2/2009	13:25	13:45	18.58	11.77	7.19	2.251	170.90	1.37	0.00	
	3/5/2009	10:09	10:37	17.92	11.57	6.97	1.084	149.60	9.32	0.00	
	3/26/2009	9:10	9:30	18.03	10.76	6.78	1.086	-84.40	0.86	0.00	
	4/13/2009	12:32	12:37	18.57	11.35	6.88	1.290	82.70	5.56	0.00	
	5/19/2009	11:15	11:20	18.54	10.84	6.80	1.882	173.70	11.17	0.00	
	6/24/2009	14:22	14:27	19.02	11.10	6.39	2.066	94.00	6.33	3.20	
	7/29/2009	15:47	15:52	21.68	11.08	8.07	2.038	91.30	2.49	0.00	
	8/27/2009	8:44	8:49	20.28	11.48	6.41	2.643	144.30	2.28	0.00	
	9/15/2009	14:32	14:37	20.67	11.09	6.96	2.208	1.10	0.54	0.00	
	10/12/2009	13:33	13:38	20.66	11.06	7.20	2.597	-38.80	0.63	0.00	
	11/11/2009	11:52	11:57	20.47	11.58	8.29	2.464	21.30	12.73	0.00	
	12/14/2009	14:00	14:05	20.41	11.11	7.55	2.095	-60.2	1.91	0.20	
	1/14/2010	9:30	9:35	20.53	11.46	7.89	2.318	96.80	3.12	113.80	
	2/8/2010	8:45	8:50	19.87	10.91	7.12	1.059	128.20	10.12	0.00	
	3/8/2010	9:47	9:52	20.36	11.13	6.83	1.051	140.90	9.16	0.00	
	4/12/2010	9:53	9:58	19.68	10.67	6.92	0.935	-0.90	9.04	0.00	
	5/10/2010	9:53	9:58	20.21	10.55	6.79	2.496	179.30	4.66	0.00	Identical times are not a copy of above
	6/15/2010	10:00	10:05	20.66	10.82	7.09	3.641	53.20	12.11	0.00	
	7/13/2010	10:08	10:13	20.88	11.74	7.12	5.023	-53.60	3.53	0.20	
	8/10/2010	10:03	10:08	20.59	10.98	7.40	2.340	145.60	11.24	0.00	
	9/14/2010	12:49	12:54	20.93	11.01	7.45	4.420	-10.10	10.11	0.20	
	10/11/2010	10:25	10:30	19.71	11.69	6.78	2.550	158.00	11.26	0.10	AS/SVE turned off ozone on
	11/15/2010	9:47	9:52	19.86	12.07	7.05	1.612	99.10	9.51	0.00	
	12/13/2010	9:11	9:16	19.38	11.88	7.01	2.385	-107.50	0.55	0.00	
	1/17/2011	11:19	11:24	19.71	11.72	7.26	1.843	-199.80	6.96	0.00	
	2/14/2011	8:29	8:34	20.17	11.46	7.05	1.882	67.00	6.19	0.00	
	3/16/2011	12:49	12:54	18.63	10.95	7.30	2.104	-156.70	3.30	0.00	
	4/14/2011	7:36	7:41	18.51	11.25	6.76	1.547	-273.60	0.22	0.00	
	5/17/2011	9:04	9:09	18.14	10.95	7.16	1.851	-186.60	4.27	8.10	
	6/15/2011	7:09	7:14	18.81	10.68	6.96	1.441	150.40	5.22	0.30	
	7/11/2011	8:03	8:08	19.43	10.94	6.74	2.750	-275.10	3.17	0.00	
2140-MW15	12/16/2008	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	1/12/2009	15:21	15:42	8.20	10.59	7.35	3.759	61.10	0.42	0.00	
	1/19/2009	15:20	15:30	8.40	9.80	8.81	0.075	6.20	12.62	0.50	
	2/2/2009	13:32	13:50	8.93	9.63	5.66	0.047	168.60	0.59	0.00	
	3/5/2009	9:41	10:20	8.18	8.90	6.95	0.036	84.30	11.67	0.00	
	3/26/2009	8:40	9:05	8.31	8.38	6.58	0.365	29.50	10.63	0.00	
	4/13/2009	12:17	12:22	8.52	9.02	7.16	1.155	200.20	11.27	0.00	
	5/19/2009	11:28	11:32	8.93	9.20	7.68	2.056	176.50	13.84	0.00	
	6/24/2009	14:31	14:36	9.42	10.00	7.35	2.624	69.10	11.32	0.00	
	7/29/2009	16:01	16:06	10.04	11.05	8.54	0.398	95.90	9.19	0.00	
	8/27/2009	8:57	9:03	10.60	11.47	6.73	1.008	152.30	11.86	0.00	
	9/15/2009	14:44	14:49	10.96	11.08	7.12	2.322	2.80	3.86	0.00	
	10/12/2009	13:45	13:50	10.89	11.79	6.98	1.215	51.90	2.25	0.00	
	11/11/2009	12:02	12:07	10.64	11.64	7.42	0.918	55.40	8.36	0.10	
	12/14/2009	14:15	14:20	10.56	11.21	7.61	1.298	-129.00	2.65	0.10	
	1/14/2010	9:42	9:47	10.72	10.29	7.99	0.774	79.60	7.70	0.00	
	2/8/2010	8:56	9:01	10.04	9.40	7.25	0.351	113.20	10.51	0.10	
	3/8/2010	9:56	10:01	10.48	9.11	7.02	1.179	146.30	10.06	0.00	
	4/12/2010	10:07	10:12	9.91	8.78	7.21	0.316	4.60	11.58	0.00	
	5/10/2010	10:06	10:11	10.38	9.13	7.12	0.792	138.60	7.40	0.00	
	6/14/2010	10:12	10:17	10.93	10.24	6.71	1.527	42.20	10.57	0.00	
	7/13/2010	10:18	10:23	11.07	10.25	7.07	2.655	-7.30	9.60	0.00	
	8/10/2010	10:25	10:30	11.91	11.34	7.32	1.700	86.80	7.31	0.00	
	9/14/2010	13:00	13:05	11.32	11.16	7.05	2.360	24.90	3.98	0.00	
	10/11/2010	10:34	10:39	10.04	13.15	6.91	0.481	128.70	8.83	0.00	AS/SVE turned off ozone on
	11/15/2010	9:54	9:59	10.14	11.91	6.96	2.959	-41.70	2.60	0.00	
	12/13/2010	9:25	9:30	9.68	11.18	7.28	0.223	-94.70	6.61	0.00	

**TABLE 3-13  
SUMMARY OF DO/ORP/PID DATA  
AAFES STATION (BUILDING P-2140)**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
	1/17/2011	11:30	11:35	10.02	11.21	7.28	2.938	-192.00	3.20	0.00	
	2/15/2011	8:17	8:22	10.47	10.82	6.80	4.901	47.10	5.12	0.00	
	3/16/2011	12:26	12:31	8.84	10.41	7.32	3.682	-157.80	6.88	0.00	
	4/14/2011	7:43	7:48	8.86	10.11	6.93	5.298	-290.10	1.98	0.00	
	5/17/2011	9:11	9:16	8.41	9.68	7.24	3.178	-171.40	5.83	0.00	
	6/15/2011	7:19	7:24	9.23	9.93	6.87	5.146	174.60	7.46	0.00	
	7/11/2011	8:10	8:15	9.88	10.75	6.93	2.009	-268.70	7.71	0.00	

**Notes:**

- NR = Not Recorded
- DTW = Depth to Water (feet)
- Temp = Temperature (degrees Fahrenheit)
- ORP = Oxidation Reduction Potential
- mV = Millivolts
- DO = Dissolved Oxygen (milligrams per liter)
- PID = Photoionization Detector
- ppm = Parts Per Million

**APPENDIX A**

**Summary of Operation and Maintenance Data**

**Area 1295**

Table A-1  
Area 1295 Ozone Injection System  
May - July 2011 O&M Data  
Fort Drum, NY

Date	Time	System Condition	Injecting at Point	Air Flow Rate (scfm)	Air Flow Pressure (psi)	Notes
05/02/11	926	On	4.0	2.0	3.0	
05/03/11	934	On	3.0	2.4	3.5	
05/04/11	831	On	1.0	2.0	5.0	
05/05/11	851	On	2.0	2.4	3.0	
05/06/11	1107	On	7.0	1.8	4.0	
05/09/11	939	On	3.0	2.2	3.5	
05/10/11	740	On	1.0	2.0	6.0	
05/11/11	916	On	3.0	2.4	3.5	
05/12/11	857	On	2.0	2.4	5.0	
05/13/11	917	On	1.0	2.0	6.0	
05/16/11	938	On	2.0	2.4	4.0	
05/17/11	1201	On	1.0	2.4	6.0	
05/18/11	1049	On	4.0	2.2	3.0	
05/19/11	936	On	5.0	2.0	4.0	
05/20/11	1045	On	7.0	2.0	3.5	
05/23/11	1127	On	7.0	2.2	4.0	
05/24/11	947	On	3.0	2.4	4.0	
05/25/11	943	On	4.0	2.2	3.0	
05/26/11	1033	On	1.0	2.2	7.0	
05/27/11	1028	On	3.0	2.4	3.5	
05/31/11	750	On	1.0	5.5	2.0	
06/01/11	1000	On	1.0	2.0	6.0	
06/02/11	900	On	3.0	2.0	3.0	
06/03/11	750	On	1.0	2.0	6.0	
06/06/11	936	On	4.0	2.2	4.0	
06/07/11	621	On	1.0	1.0	6.0	
06/08/11	740	On	3.0	2.0	4.0	
06/09/11	1058	On	7.0	2.2	3.5	
06/10/11	912	On	1.0	2.2	5.5	
06/13/11	450	On	1.0	2.0	6.0	
06/14/11	526	On	1.0	2.0	6.0	
06/15/11	1320	On	1.0	2.2	5.5	
06/16/11	1519	On	1.0	2.2	5.5	
06/17/11	1144	On	5.0	3.6	4.0	
06/20/11	856	On	1.0	2.2	5.5	
06/21/11	738	On	1.0	2.2	6.5	
06/22/11	751	On	1.0	2.2	5.5	
06/23/11	900	On	2.0	2.8	3.0	
06/24/11	811	On	1.0	2.2	6.0	
06/27/11	900	On	3.0	3.0	5.5	
06/28/11	1336	On	9.0	1.8	2.0	
06/29/11	1014	On	1.0	2.2	6.0	
06/30/11	1154	On	1.0	1.8	6.0	
7/1/2011	NR	Off	NR	NR	NR	Waiting on new head gasket
7/5/2011	NR	Off	NR	NR	NR	
7/6/2011	NR	Off	NR	NR	NR	
7/7/2011	1420	On	1.0	2.2	6.0	System repaired
7/8/2011	924	On	3.0	3.0	4.0	
7/11/2011	925	On	1.0	2.2	6.0	
7/12/2011	906	On	3.0	2.0	4.0	
7/13/2011	921	On	1.0	2.2	6.0	
7/14/2011	1011	On	2.0	2.2	3.5	



Table A-1  
 Area 1295 Ozone Injection System  
 May - July 2011 O&M Data  
 Fort Drum, NY

Date	Time	System Condition	Injecting at Point	Air Flow Rate (scfm)	Air Flow Pressure (psi)	Notes
7/15/2011	900	On	3.0	2.4	4.0	
7/18/2011	1039	On	5.0	3.2	4.0	
7/19/2011	1206	On	7.0	2.4	4.0	
7/20/2011	937	On	3.0	2.0	3.0	
7/21/2011	1006	On	5.0	3.0	3.5	
7/22/2011	1243	On	7.0	2.4	4.0	
7/25/2011	553	On	1.0	2.2	5.0	
7/26/2011	518	On	1.0	2.4	6.0	
7/27/2011	506	On	1.0	2.2	5.5	
7/28/2011	655	On	2.0	2.4	4.0	
7/29/2011	NR	Off	NR	NR	NR	System taken offline for sampling event

Notes:

NR = Not Recorded.

scfm = Standard Cubic Feet per Minute

psi = Pressure per Square Inch

Table A-2  
LNAPL Gauging  
May - July 2011 2010 O&M Data  
Fort Drum, NY

Site	Well ID	Date	Depth to Product (feet)	Depth to Water (feet)	Apparent Product Thickness (feet)	Depth to Bottom (feet)	Comments
1595	4-4S	5/5/2011	-	8.14	0.00	13.25	
		5/12/2011	-	8.21	0.00	13.25	
		5/19/2011	-	7.39	0.00	13.25	
		5/26/2011	-	7.48	0.00	13.25	
		6/2/2011	-	7.37	0.00	13.25	
		6/10/2011	-	8.03	0.00	13.25	
		6/20/2011	-	8.25	0.00	13.25	
		7/1/2011	-	8.58	0.00	13.25	
		7/8/2011	-	8.59	0.00	13.25	
		7/13/2011	-	8.54	0.00	13.25	
		7/22/2011	-	8.60	0.00	13.25	
1595	4-5S	5/5/2011	-	7.61	0.00	14.14	
		5/12/2011	-	7.66	0.00	14.14	
		5/19/2011	-	7.02	0.00	14.14	
		5/26/2011	-	7.03	0.00	14.14	
		6/2/2011	-	7.24	0.00	14.14	
		6/10/2011	-	7.58	0.00	14.14	
		6/20/2011	-	7.79	0.00	14.14	
		7/1/2011	-	8.03	0.00	14.14	
		7/8/2011	-	8.05	0.00	14.14	
		7/13/2011	-	8.09	0.00	14.14	
		7/22/2011	-	8.14	0.00	14.14	
1595	MWS8	5/5/2011	NP	6.57	0.00	18.80	
		5/12/2011	NP	6.70	0.00	18.80	
		5/19/2011	NP	6.35	0.00	18.80	
		5/26/2011	NP	6.33	0.00	18.80	
		6/2/2011	NP	6.69	0.00	18.80	
		6/10/2011	NP	6.95	0.00	18.80	
		6/20/2011	NP	7.17	0.00	18.80	
		7/1/2011	NP	7.24	0.00	18.80	
		7/8/2011	NP	7.34	0.00	18.80	
		7/13/2011	NP	7.45	0.00	18.80	
		7/22/2011	NP	7.47	0.00	18.80	
1795	PZ-17	5/5/2011	-	10.42	0.00	NR	
		5/12/2011	-	10.53	0.00	NR	
		5/19/2011	-	9.51	0.00	NR	
		5/26/2011	-	9.54	0.00	NR	
		6/2/2011	-	9.75	0.00	NR	
		6/10/2011	-	10.18	0.00	NR	
		6/20/2011	-	10.48	0.00	NR	
		7/1/2011	-	10.56	0.00		
		7/8/2011	-	10.98	0.00		
		7/13/2011	-	11.15	0.00		
		7/22/2011	-	11.18	0.00		
1795	5-4m	5/5/2011	-	7.16	0.00	12.20	
		5/12/2011	-	7.22	0.00	12.20	
		5/19/2011	-	5.65	0.00	12.20	
		5/26/2011	-	5.68	0.00	12.20	
		6/2/2011	-	6.99	0.00	12.20	
		6/10/2011	-	7.41	0.00	12.20	

		6/20/2011	-	7.71	0.00	12.20	
		7/1/2011	-	7.86	0.00	12.20	
		7/8/2011	-	8.16	0.00	12.20	
		7/13/2011	-	8.39	0.00	12.20	
		7/22/2011	-	8.44	0.00	12.20	
1795	5-5m	5/5/2011	-	12.35	0.00	16.89	
		5/12/2011	-	12.42	0.00	16.89	
		5/19/2011	-	10.63	0.00	16.89	
		5/26/2011	-	10.70	0.00	16.89	
		6/2/2011	-	12.19	0.00	16.89	
		6/10/2011	-	12.59	0.00	16.89	
		6/20/2011	-	12.91	0.00	16.89	
		7/1/2011	-	13.01	0.00	16.89	
		7/8/2011	-	13.35	0.00	16.89	
		7/13/2011	-	13.55	0.00	16.89	
		7/22/2011	-	13.59	0.00	16.89	
3805B	5-5M	5/5/2011	-	13.21	0.00	21.76	
		5/12/2011	-	13.36	0.00	21.76	
		5/19/2011	-	12.01	0.00	21.76	
		5/26/2011	-	12.06	0.00	21.76	
		6/2/2011	-	11.78	0.00	21.76	
		6/10/2011	-	12.01	0.00	21.76	
		6/20/2011	-	12.32	0.00	21.76	
		7/1/2011	-	12.49	0.00	21.76	
		7/8/2011	-	12.57	0.00	21.76	
		7/13/2011	-	12.75	0.00	21.76	
		7/22/2011	-	12.76	0.00	21.76	
3805B	5-8M	5/5/2011	-	14.12	0.00	22.35	
		5/12/2011	-	14.24	0.00	22.35	
		5/19/2011	-	13.03	0.00	22.35	
		5/26/2011	-	13.09	0.00	22.35	
		6/2/2011	-	13.61	0.00	22.35	
		6/10/2011	-	12.59	0.00	22.35	
		6/20/2011	-	13.10	0.00	22.35	
		7/1/2011	-	13.42	0.00	22.35	
		7/8/2011	-	13.49	0.00	22.35	
		7/13/2011	-	13.52	0.00	22.35	
		7/22/2011	-	13.58	0.00	22.35	
3805B	6-2M	5/5/2011	-	11.49	0.00	20.30	
		5/12/2011	-	11.54	0.00	20.30	
		5/19/2011	-	11.00	0.00	20.30	
		5/26/2011	-	11.06	0.00	20.30	
		6/2/2011	-	10.71	0.00	20.30	
		6/10/2011	-	11.02	0.00	20.30	
		6/20/2011	-	11.24	0.00	20.30	
		7/1/2011	-	11.53	0.00	20.30	
		7/8/2011	-	11.78	0.00	20.30	
		7/13/2011	-	11.71	0.00	20.30	
		7/22/2011	-	11.73	0.00	20.30	
3805B	6-10M	5/5/2011	-	13.77	0.00	21.74	
		5/12/2011	-	13.88	0.00	21.74	
		5/19/2011	-	12.87	0.00	21.74	
		5/26/2011	-	12.88	0.00	21.74	
		6/2/2011	-	12.43	0.00	21.74	
		6/10/2011	-	12.63	0.00	21.74	
		6/20/2011	-	12.99	0.00	21.74	
		7/1/2011	-	13.16	0.00	21.74	
		7/8/2011	-	13.21	0.00	21.74	
		7/13/2011	-	13.31	0.00	21.74	

		7/22/2011	-	13.37	0.00	21.74	
3805B	9-1M	5/5/2011	NA	10.23	NA	18.90	
		5/12/2011	NA	10.31	NA	18.90	
		5/19/2011	NA	9.38	NA	18.90	
		5/26/2011	NA	9.43	NA	18.90	
		6/2/2011	NA	9.43	NA	18.90	Not a typo on the depth to water
		6/10/2011	NA	9.84	NA	18.90	
		6/20/2011	NA	10.15	NA	18.90	
		7/1/2011	NA	10.48	NA	18.90	
		7/8/2011	NA	10.74	NA	18.90	
		7/13/2011	NA	10.60	NA	18.90	
		7/22/2011	NA	10.64	NA	18.90	
3805B	PZ-10-2	5/5/2011	13.11	13.36	0.25	21.60	LNAPL confirmed with bailer and removed
		5/12/2011	13.18	13.27	0.09	21.60	LNAPL confirmed with bailer and removed
		5/19/2011	12.25	12.55	0.30	21.60	LNAPL confirmed with bailer and removed
		5/26/2011	12.26	12.39	0.13	21.60	LNAPL confirmed with bailer and removed
		6/2/2011	12.15	12.70	0.55	21.60	LNAPL confirmed with bailer and removed
		6/10/2011	12.55	13.04	0.49	21.60	LNAPL confirmed with bailer and removed
		6/20/2011	12.74	13.28	0.54	21.60	
		7/1/2011	12.93	13.19	0.26	21.60	
		7/8/2011	12.98	13.54	0.56	21.60	LNAPL confirmed with bailer and removed
		7/13/2011	13.15	13.71	0.56	21.60	LNAPL confirmed with bailer and removed
		7/22/2011	13.17	13.63	0.46	21.60	LNAPL confirmed with bailer and removed

Notes:

NR = Not Recorded

**APPENDIX B**

**Summary of Well Gauging Results and Operation and Maintenance Data**

**Area 1595**

**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
1595-1-1S	11/30/2005	623.15	4.38	618.77	-	-	618.77
	01/26/2006	623.15	4.42	618.73	-	-	618.73
	03/29/2006	623.15	NR	-	NR	-	-
	03/30/2006	623.15	NR	-	NR	-	-
	04/10/2006	623.15	4.64	618.51	-	-	618.51
	05/11/2006	623.15	4.83	618.32	-	-	618.32
	07/01/2008	623.15	5.20	617.95	-	-	617.95
	09/18/2008	623.15	4.98	618.17	-	-	618.17
	10/23/2008	623.15	5.04	618.11	-	-	618.11
	12/30/2008	623.15	2.39	620.76	-	-	620.76
	01/29/2009	623.15	3.22	619.93	-	-	619.93
	02/24/2009	623.15	2.80	620.35	-	-	620.35
	03/27/2009	623.15	2.70	620.45	-	-	620.45
	04/28/2009	623.15	4.49	618.66	-	-	618.66
	05/20/2009	623.15	2.53	620.62	-	-	620.62
	06/25/2009	623.15	3.18	619.97	-	-	619.97
	07/21/2009	623.15	4.41	618.74	-	-	618.74
	08/25/2009	623.15	4.80	618.35	-	-	618.35
	09/15/2009	623.15	4.96	618.19	-	-	618.19
	10/14/2009	623.15	5.92	617.23	-	-	617.23
	11/10/2009	623.15	4.91	618.24	-	-	618.24
	12/14/2009	623.15	4.79	618.36	-	-	618.36
	01/11/2010	623.15	6.04	617.11	-	-	617.11
	02/10/2010	623.15	5.79	617.36	-	-	617.36
	03/10/2010	623.15	4.85	618.30	-	-	618.30
	04/14/2010	623.15	5.80	617.35	-	-	617.35
	05/12/2010	623.15	5.97	617.18	-	-	617.18
	06/17/2010	623.15	6.21	616.94	-	-	616.94
	07/14/2010	623.15	6.11	617.04	-	-	617.04
	08/09/2010	623.15	6.07	617.08	-	-	617.08
	09/16/2010	623.15	6.36	616.79	-	-	616.79
	10/13/2010	623.15	4.89	618.26	-	-	618.26
	11/16/2010	623.15	5.53	617.62	-	-	617.62
	12/16/2010	623.15	NR	-	-	NR	-
01/13/2011	623.15	NR	-	-	NR	-	
03/14/2011	623.15	NR	-	-	NR	-	
04/12/2011	623.15	NR	-	-	NR	-	
05/19/2011	623.15	NR	-	-	NR	-	
06/20/2011	623.15	NR	-	-	NR	-	
07/13/2011	623.15	NR	-	-	NR	-	
1595-1-2S	11/30/2005	625.48	7.06	618.42	-	-	618.42
	01/26/2006	625.48	6.92	618.56	-	-	618.56
	03/29/2006	625.48	NR	-	NR	-	-
	03/30/2006	625.48	NR	-	NR	-	-
	04/10/2006	625.48	7.13	618.35	-	-	618.35
	05/11/2006	625.48	7.33	618.15	-	-	618.15
	07/01/2008	625.48	7.05	618.43	-	-	618.43
	09/18/2008	625.48	7.46	618.02	7.40	0.06	618.07
	10/23/2008	625.48	7.87	617.61	7.86	0.01	617.62
	12/30/2008	625.48	5.40	620.08	SHEEN	-	620.08
	01/29/2009	625.48	6.23	619.25	-	-	619.25
	02/24/2009	625.48	6.15	619.33	-	-	619.33
	03/27/2009	625.48	6.12	619.36	-	-	619.36
	04/28/2009	625.48	7.08	618.40	-	-	618.40
	05/20/2009	625.48	6.11	619.37	-	-	619.37
	06/25/2009	625.48	6.27	619.21	-	-	619.21
	07/21/2009	625.48	7.12	618.36	-	-	618.36
08/25/2009	625.48	7.50	617.98	-	-	617.98	
09/15/2009	625.48	7.61	617.87	-	-	617.87	
10/14/2009	625.48	8.47	617.01	-	-	617.01	

**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	11/01/2009	625.48	7.42	618.06	-	-	618.06
	12/14/2009	625.48	7.29	618.19	-	-	618.19
	01/11/2010	625.48	8.61	616.87	-	-	616.87
	02/10/2010	625.48	8.33	617.15	-	-	617.15
	03/10/2010	625.48	8.61	616.87	-	-	616.87
	04/14/2010	625.48	8.34	617.14	-	-	617.14
	05/12/2010	625.48	8.49	616.99	-	-	616.99
	06/17/2010	625.48	6.74	618.74	-	-	618.74
	07/14/2010	625.48	8.68	616.80	-	-	616.80
	08/09/2010	625.48	8.63	616.85	-	-	616.85
	09/16/2010	625.48	8.87	616.61	-	-	616.61
	10/13/2010	625.48	7.64	617.84	-	-	617.84
	11/16/2010	625.48	8.12	617.36	-	-	617.36
	12/16/2010	625.48	NR	-	NR	-	-
	01/13/2011	625.48	NR	-	NR	-	-
	03/14/2011	625.48	NR	-	NR	-	-
	04/12/2011	625.48	NR	-	NR	-	-
	05/19/2011	625.48	NR	-	NR	-	-
	06/20/2011	625.48	NR	-	NR	-	-
	07/13/2011	625.48	NR	-	NR	-	-
1595-1-3S	11/30/2005	632.55	10.76	621.79	-	-	621.79
	01/26/2006	632.55	10.28	622.27	-	-	622.27
	03/29/2006	632.55	NR	-	NR	-	-
	03/30/2006	632.55	NR	-	NR	-	-
	04/10/2006	632.55	10.47	622.08	-	-	622.08
	05/11/2006	632.55	10.71	621.84	-	-	621.84
	07/01/2008	632.55	11.05	621.50	-	-	621.50
1595-1-4S	11/30/2005	634.07	13.63	620.44	-	-	620.44
	01/26/2006	634.07	13.09	620.98	-	-	620.98
	03/29/2006	634.07	NR	-	NR	-	-
	03/30/2006	634.07	NR	-	NR	-	-
	04/10/2006	634.07	13.26	620.81	-	-	620.81
	05/11/2006	634.07	13.48	620.59	-	-	620.59
	07/01/2008	634.07	13.80	620.27	-	-	620.27
	09/18/2008	634.07	13.10	620.97	-	-	620.97
	10/23/2008	634.07	13.50	620.57	-	-	620.57
	12/30/2008	634.07	11.64	622.43	-	-	622.43
	01/29/2009	634.07	12.35	621.72	-	-	621.72
	02/24/2009	634.07	12.28	621.79	-	-	621.79
	03/27/2009	634.07	12.34	621.73	-	-	621.73
	04/28/2009	634.07	12.91	621.16	-	-	621.16
	05/20/2009	634.07	12.26	621.81	-	-	621.81
	06/25/2009	634.07	13.16	620.91	-	-	620.91
	07/21/2009	634.07	12.92	621.15	-	-	621.15
	08/25/2009	634.07	13.52	620.55	-	-	620.55
	09/15/2009	634.07	13.83	620.24	-	-	620.24
	10/14/2009	634.07	14.73	619.34	-	-	619.34
	11/10/2009	634.07	13.93	620.14	-	-	620.14
	12/14/2009	634.07	13.61	620.46	-	-	620.46
	01/11/2010	634.07	15.02	619.05	-	-	619.05
	02/10/2010	634.07	14.74	619.33	-	-	619.33
	03/10/2010	634.07	13.94	620.13	-	-	620.13
	04/14/2010	634.07	14.57	619.50	-	-	619.50
	05/12/2010	634.07	14.78	619.29	-	-	619.29
	06/17/2010	634.07	15.07	619.00	-	-	619.00
	07/14/2010	634.07	15.06	619.01	-	-	619.01
	08/09/2010	634.07	15.02	619.05	-	-	619.05
	09/16/2010	634.07	15.26	618.81	-	-	618.81
	10/13/2010	634.07	14.14	619.93	-	-	619.93

**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	11/16/2010	634.07	14.46	619.61	-	-	619.61
	12/16/2010	634.07	NR	-	NR	-	-
	01/13/2011	634.07	NR	-	NR	-	-
	03/14/2011	634.07	NR	-	NR	-	-
	04/12/2011	634.07	NR	-	NR	-	-
	05/19/2011	634.07	NR	-	NR	-	-
	06/20/2011	634.07	NR	-	NR	-	-
	07/13/2011	634.07	NR	-	NR	-	-
1595-2-1S	11/30/2005	630.16	7.08	623.08	-	-	623.08
	01/26/2006	630.16	6.83	623.33	-	-	623.33
	03/29/2006	630.16	NR	-	NR	-	-
	03/30/2006	630.16	NR	-	NR	-	-
	04/10/2006	630.16	7.14	623.02	7.10	0.04	623.05
	05/11/2006	630.16	7.34	622.82	-	-	622.82
	07/01/2008	630.16	7.75	622.41	-	-	622.41
1595-2-2S	11/30/2005	629.84	7.58	622.26	6.96	0.62	622.73
	01/26/2006	629.84	5.54	624.30	-	-	624.30
	03/29/2006	629.84	NR	-	NR	-	-
	03/30/2006	629.84	NR	-	NR	-	-
	04/10/2006	629.84	5.76	624.08	-	-	624.08
	05/11/2006	629.84	6.22	623.62	5.96	0.26	623.82
	07/01/2008	629.84	6.45	623.39	-	-	623.39
	09/18/2008	629.84	6.82	623.02	-	-	623.02
	10/23/2008	629.84	7.10	622.74	-	-	622.74
	12/30/2008	629.84	4.66	625.18	4.65	0.01	625.19
	01/29/2009	629.84	5.82	624.02	-	-	624.02
	02/24/2009	629.84	5.65	624.19	-	-	624.19
	03/27/2009	629.84	5.52	624.32	-	-	624.32
	04/28/2009	629.84	6.74	623.10	-	-	623.10
	05/20/2009	629.84	5.96	623.88	-	-	623.88
	06/25/2009	629.84	6.31	623.53	-	-	623.53
	07/21/2009	629.84	7.47	622.37	-	-	622.37
	08/25/2009	629.84	8.02	621.82	-	-	621.82
	09/15/2009	629.84	7.96	621.88	7.92	0.04	621.91
	10/14/2009	629.84	8.62	621.22	-	-	621.22
	11/10/2009	629.84	8.49	621.35	-	-	621.35
	12/14/2009	629.84	8.45	621.39	-	-	621.39
	01/11/2010	629.84	8.79	621.05	-	-	621.05
	02/10/2010	629.84	8.45	621.39	-	-	621.39
	03/10/2010	629.84	8.79	621.05	-	-	621.05
	04/14/2010	629.84	8.43	621.41	-	-	621.41
	05/12/2010	629.84	8.67	621.17	-	-	621.17
	06/17/2010	629.84	8.99	620.85	-	-	620.85
	07/14/2010	629.84	8.88	620.96	-	-	620.96
	08/09/2010	629.84	8.65	621.19	-	-	621.19
	09/16/2010	629.84	8.91	620.93	-	-	620.93
	10/13/2010	629.84	7.49	622.35	-	-	622.35
	11/16/2010	629.84	8.19	621.65	-	-	621.65
	12/16/2010	629.84	NR	-	NR	-	-
	01/13/2011	629.84	NR	-	NR	-	-
	03/14/2011	629.84	NR	-	NR	-	-
	04/12/2011	629.84	NR	-	NR	-	-
	05/19/2011	629.84	NR	-	NR	-	-
	06/20/2011	629.84	NR	-	NR	-	-
	07/13/2011	629.84	NR	-	NR	-	-
1595-2-3S	11/30/2005	631.58	7.28	624.30	-	-	624.30
	01/26/2006	631.58	6.81	624.77	-	-	624.77
	03/29/2006	631.58	NR	-	NR	-	-



**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	03/30/2006	631.58	NR	-	NR	-	-
	04/10/2006	631.58	7.15	624.43	-	-	624.43
	05/11/2006	631.58	7.41	624.17	-	-	624.17
	07/01/2008	631.58	7.90	623.68	-	-	623.68
	09/18/2008	631.58	7.52	624.06	-	-	624.06
	10/23/2008	631.58	8.20	623.38	8.03	0.17	623.51
	12/30/2008	631.58	4.93	626.65	-	-	626.65
	01/29/2009	631.58	5.45	626.13	-	-	626.13
	02/24/2009	631.58	6.25	625.33	-	-	625.33
	03/27/2009	631.58	5.68	625.90	-	-	625.90
	04/28/2009	631.58	6.81	624.77	-	-	624.77
	05/20/2009	631.58	6.32	625.26	-	-	625.26
	06/25/2009	631.58	6.39	625.19	-	-	625.19
	07/21/2009	631.58	6.99	624.59	-	-	624.59
	08/25/2009	631.58	7.68	623.90	-	-	623.90
	09/15/2009	631.58	8.40	623.18	8.27	0.13	623.28
	10/14/2009	631.58	9.01	622.57	8.98	0.03	622.59
	11/10/2009	631.58	8.86	622.72	-	-	622.72
	12/14/2009	631.58	8.84	622.74	-	-	622.74
	01/11/2010	631.58	9.21	622.37	-	-	622.37
	02/10/2010	631.58	8.76	622.82	-	-	622.82
	03/10/2010	631.58	8.21	623.37	-	-	623.37
	04/14/2010	631.58	8.76	622.82	-	-	622.82
	05/12/2010	631.58	9.10	622.48	-	-	622.48
	06/17/2010	631.58	9.44	622.14	-	-	622.14
	07/14/2010	631.58	9.31	622.27	-	-	622.27
	08/09/2010	631.58	9.12	622.46	-	-	622.46
	09/16/2010	631.58	9.53	622.05	-	-	622.05
	10/13/2010	631.58	7.58	624.00	-	-	624.00
	11/16/2010	631.58	8.43	623.15	-	-	623.15
	12/16/2010	631.58	NR	-	NR	-	-
	01/13/2011	631.58	NR	-	NR	-	-
	03/14/2011	631.58	NR	-	NR	-	-
	04/12/2011	631.58	NR	-	NR	-	-
	05/19/2011	631.58	NR	-	NR	-	-
	06/20/2011	631.58	NR	-	NR	-	-
	07/13/2011	631.58	NR	-	NR	-	-
1595-2-4S	11/30/2005	630.37	6.74	623.63	-	-	623.63
	01/26/2006	630.37	6.37	624.00	-	-	624.00
	03/29/2006	630.37	NR	-	NR	-	-
	03/30/2006	630.37	NR	-	NR	-	-
	04/10/2006	630.37	6.64	623.73	-	-	623.73
	05/11/2006	630.37	6.89	623.48	-	-	623.48
	07/01/2008	630.37	7.30	623.07	-	-	623.07
1595-2-5S	11/30/2005	633.12	7.89	625.23	-	-	625.23
	01/26/2006	633.12	7.26	625.86	-	-	625.86
	03/29/2006	633.12	NR	-	NR	-	-
	03/30/2006	633.12	NR	-	NR	-	-
	04/10/2006	633.12	7.77	625.35	7.61	0.16	625.47
	05/11/2006	633.12	8.00	625.12	7.90	0.10	625.20
	07/01/2008	633.12	8.45	624.67	-	-	624.67
1595-2-6S	11/30/2005	631.15	7.08	624.07	-	-	624.07
	01/26/2006	631.15	6.52	624.63	-	-	624.63
	03/29/2006	631.15	NR	-	NR	-	-
	03/30/2006	631.15	NR	-	NR	-	-
	04/10/2006	631.15	6.83	624.32	-	-	624.32
	05/11/2006	631.15	7.08	624.07	-	-	624.07
	07/01/2008	631.15	7.50	623.65	-	-	623.65

**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
1595-3-1S	11/30/2005	632.99	7.65	625.34	-	-	625.34
	01/26/2006	632.99	7.10	625.89	-	-	625.89
	03/29/2006	632.99	NR	-	NR	-	-
	03/30/2006	632.99	NR	-	NR	-	-
	04/10/2006	632.99	7.49	625.50	-	-	625.50
	05/11/2006	632.99	7.76	625.23	-	-	625.23
	07/01/2008	632.99	8.25	624.74	-	-	624.74
	09/18/2008	632.99	6.55	626.44	-	-	626.44
	10/23/2008	632.99	7.10	625.89	-	-	625.89
	12/30/2008	632.99	3.72	629.27	-	-	629.27
	01/29/2009	632.99	6.89	626.10	-	-	626.10
	02/24/2009	632.99	5.90	627.09	-	-	627.09
	03/27/2009	632.99	4.80	628.19	-	-	628.19
	04/28/2009	632.99	7.03	625.96	-	-	625.96
	05/20/2009	632.99	6.79	626.20	-	-	626.20
	06/25/2009	632.99	2.39	630.60	-	-	630.60
	07/21/2009	632.99	7.96	625.03	-	-	625.03
	08/25/2009	632.99	8.62	624.37	-	-	624.37
	09/15/2009	632.99	9.11	623.88	-	-	623.88
	10/14/2009	632.99	9.43	623.56	-	-	623.56
	11/10/2009	632.99	9.24	623.75	-	-	623.75
	12/14/2009	632.99	9.31	623.68	-	-	623.68
	01/11/2010	632.99	9.59	623.40	-	-	623.40
	02/10/2010	632.99	9.18	623.81	-	-	623.81
	03/10/2010	632.99	9.68	623.31	-	-	623.31
	04/14/2010	632.99	9.12	623.87	-	-	623.87
	05/12/2010	632.99	9.51	623.48	-	-	623.48
	06/17/2010	632.99	9.84	623.15	-	-	623.15
	07/14/2010	632.99	9.74	623.25	-	-	623.25
	08/09/2010	632.99	9.47	623.52	-	-	623.52
	09/16/2010	632.99	10.03	622.96	-	-	622.96
	10/13/2010	632.99	8.10	624.89	-	-	624.89
	11/16/2010	632.99	8.66	624.33	-	-	624.33
12/16/2010	632.99	NR	-	-	NR	-	
01/13/2011	632.99	NR	-	-	NR	-	
03/14/2011	632.99	NR	-	-	NR	-	
04/12/2011	632.99	NR	-	-	NR	-	
05/19/2011	632.99	NR	-	-	NR	-	
06/20/2011	632.99	NR	-	-	NR	-	
07/13/2011	632.99	NR	-	-	NR	-	
1595-3-2S	11/30/2005	633.68	7.53	626.15	-	-	626.15
	01/26/2006	633.68	6.81	626.87	-	-	626.87
	03/29/2006	633.68	NR	-	NR	-	-
	03/30/2006	633.68	NR	-	NR	-	-
	04/10/2006	633.68	7.22	626.46	-	-	626.46
	05/11/2006	633.68	7.52	626.16	-	-	626.16
	07/01/2008	633.68	8.00	625.68	-	-	625.68
1595-3-3S	11/30/2005	637.45	11.43	626.02	-	-	626.02
	01/26/2006	637.45	10.64	626.81	-	-	626.81
	03/29/2006	637.45	NR	-	NR	-	-
	03/30/2006	637.45	NR	-	NR	-	-
	04/10/2006	637.45	11.21	626.24	11.01	0.20	626.39
	05/11/2006	637.45	11.38	626.07	11.32	0.06	626.12
	07/01/2008	637.45	10.95	626.50	-	-	626.50
1595-4-1S	11/30/2005	634.24	6.94	627.30	6.62	0.32	627.54
	01/26/2006	634.24	5.11	629.13	5.03	0.08	629.19
	03/29/2006	634.24	5.01	629.23	-	-	629.23

**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	03/30/2006	634.24	NR	-	NR	-	-
	04/10/2006	634.24	5.44	628.80	-	-	628.80
	05/11/2006	634.24	5.78	628.46	-	-	628.46
	07/01/2008	634.24	6.30	627.94	-	-	627.94
	09/18/2008	634.24	6.89	627.35	-	-	627.35
	10/23/2008	634.24	7.22	627.02	-	-	627.02
	12/30/2008	634.24	5.11	629.13	-	-	629.13
	01/29/2009	634.24	5.18	629.06	-	-	629.06
	02/24/2009	634.24	5.25	628.99	-	-	628.99
	03/27/2009	634.24	4.82	629.42	-	-	629.42
	04/28/2009	634.24	5.88	628.36	-	-	628.36
	05/20/2009	634.24	4.68	629.56	-	-	629.56
	06/25/2009	634.24	5.23	629.01	-	-	629.01
	07/21/2009	634.24	6.55	627.69	-	-	627.69
	08/25/2009	634.24	6.82	627.42	-	-	627.42
	09/15/2009	634.24	7.27	626.97	-	-	626.97
	10/14/2009	634.24	8.56	625.68	-	-	625.68
	11/10/2009	634.24	7.35	626.89	-	-	626.89
	12/14/2009	634.24	8.51	625.73	-	-	625.73
	01/11/2010	634.24	8.82	625.42	-	-	625.42
	02/10/2010	634.24	8.39	625.85	-	-	625.85
	03/10/2010	634.24	7.39	626.85	-	-	626.85
	04/14/2010	634.24	8.35	625.89	-	-	625.89
	05/12/2010	634.24	8.79	625.45	-	-	625.45
	06/17/2010	634.24	9.11	625.13	-	-	625.13
	07/14/2010	634.24	8.89	625.35	-	-	625.35
	08/09/2010	634.24	8.61	625.63	-	-	625.63
	09/16/2010	634.24	9.08	625.16	-	-	625.16
	10/13/2010	634.24	6.59	627.65	-	-	627.65
	11/16/2010	634.24	7.83	626.41	-	-	626.41
	12/16/2010	634.24	NR	-	NR	-	-
	01/13/2011	634.24	NR	-	NR	-	-
	03/14/2011	634.24	NR	-	NR	-	-
	04/12/2011	634.24	NR	-	NR	-	-
	05/19/2011	634.24	NR	-	NR	-	-
	06/20/2011	634.24	NR	-	NR	-	-
	07/13/2011	634.24	NR	-	NR	-	-
1595-4-2S	11/30/2005	635.37	7.87	627.50	7.74	0.13	627.60
	01/26/2006	635.37	6.18	629.19	6.12	0.06	629.24
	03/29/2006	635.37	5.99	629.38	-	-	629.38
	03/30/2006	635.37	NR	-	NR	-	-
	04/10/2006	635.37	6.56	628.81	-	-	628.81
	05/11/2006	635.37	6.87	628.50	-	-	628.50
	07/01/2008	635.37	7.45	627.92	-	-	627.92
1595-4-3S	11/30/2005	634.73	8.91	625.82	7.66	1.25	626.77
	01/26/2006	634.73	6.93	627.80	5.99	0.94	628.51
	03/29/2006	634.73	6.76	627.97	-	-	627.97
	03/30/2006	634.73	6.52	628.21	6.27	0.25	628.40
	04/10/2006	634.73	6.91	627.82	6.46	0.45	628.16
	05/11/2006	634.73	7.24	627.49	6.77	0.47	627.85
	07/01/2008	634.73	7.43	627.30	7.35	0.08	627.36
	09/18/2008	634.73	8.73	626.00	-	-	626.00
	10/23/2008	634.73	8.71	626.02	SHEEN	-	626.02
	12/30/2008	634.73	4.92	629.81	-	-	629.81
	01/29/2009	634.73	6.13	628.60	-	-	628.60
	02/24/2009	634.73	5.91	628.82	-	-	628.82
	03/27/2009	634.73	5.77	628.96	-	-	628.96
	04/28/2009	634.73	6.94	627.79	-	-	627.79
	05/20/2009	634.73	6.81	627.92	-	-	627.92

**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/25/2009	634.73	5.54	629.19	-	-	629.19
	07/21/2009	634.73	6.86	627.87	-	-	627.87
	08/25/2009	634.73	7.78	626.95	-	-	626.95
	09/15/2009	634.73	8.35	626.38	8.26	0.09	626.45
	10/14/2009	634.73	9.73	625.00	9.62	0.11	625.08
	11/10/2009	634.73	8.72	626.01	-	-	626.01
	12/14/2009	634.73	7.84	626.89	7.53	0.31	627.13
	01/11/2010	634.73	9.51	625.22	-	-	625.22
	02/10/2010	634.73	8.57	626.16	-	-	626.16
	03/10/2010	634.73	9.56	625.17	-	-	625.17
	04/14/2010	634.73	9.03	625.70	-	-	625.70
	05/12/2010	634.73	9.49	625.24	-	-	625.24
	06/17/2010	634.73	9.82	624.91	-	-	624.91
	07/14/2010	634.73	9.68	625.05	-	-	625.05
	08/09/2010	634.73	9.33	625.40	-	-	625.40
	09/16/2010	634.73	9.21	625.52	-	-	625.52
	10/13/2010	634.73	7.80	626.93	-	-	626.93
	11/16/2010	634.73	8.55	626.18	-	-	626.18
	12/16/2010	634.73	NR	-	NR	-	-
	01/13/2011	634.73	NR	-	NR	-	-
	03/14/2011	634.73	NR	-	NR	-	-
	04/12/2011	634.73	NR	-	NR	-	-
	05/19/2011	634.73	NR	-	NR	-	-
	06/20/2011	634.73	NR	-	NR	-	-
	07/13/2011	634.73	NR	-	NR	-	-
1595-4-4S	11/30/2005	637.64	10.70	626.94	10.03	0.67	627.45
	01/26/2006	637.64	9.86	627.78	8.20	1.66	629.04
	03/29/2006	637.64	10.14	627.50	-	-	627.50
	03/30/2006	637.64	8.86	628.78	8.51	0.35	629.05
	04/10/2006	637.64	9.58	628.06	8.67	0.91	628.75
	05/11/2006	637.64	9.89	627.75	9.00	0.89	628.43
	07/01/2008	637.64	9.75	627.89	9.65	0.10	627.97
	09/18/2008	637.64	10.30	627.34	-	-	627.34
	10/23/2008	637.64	10.43	627.21	-	-	627.21
	12/30/2008	637.64	8.33	629.31	-	-	629.31
	01/29/2009	637.64	7.91	629.73	-	-	629.73
	02/24/2009	637.64	7.91	629.73	-	-	629.73
	03/27/2009	637.64	7.52	630.12	-	-	630.12
	04/28/2009	637.64	9.08	628.56	9.02	0.06	628.61
	05/20/2009	637.64	7.28	630.36	-	-	630.36
	06/25/2009	637.64	7.80	629.84	7.30	0.50	630.22
	07/21/2009	637.64	9.17	628.47	-	-	628.47
	08/25/2009	637.64	10.10	627.54	-	-	627.54
	09/15/2009	637.64	10.67	626.97	10.65	0.02	626.99
	10/14/2009	637.64	11.99	625.65	11.86	0.13	625.75
	11/10/2009	637.64	11.09	626.55	10.61	0.48	626.91
	12/14/2009	637.64	11.21	626.43	-	-	626.43
	01/11/2010	637.64	11.63	626.01	11.61	0.02	626.03
	02/10/2010	637.64	11.16	626.48	-	-	626.48
	03/10/2010	637.64	12.03	625.61	-	-	625.61
	04/14/2010	637.64	11.39	626.25	-	-	626.25
	05/12/2010	637.64	11.90	625.74	-	-	625.74
	06/17/2010	637.64	12.23	625.41	-	-	625.41
	07/14/2010	637.64	12.11	625.53	-	-	625.53
	08/09/2010	637.64	11.74	625.90	-	-	625.90
	09/16/2010	637.64	12.24	625.40	-	-	625.40
	10/13/2010	637.64	10.14	627.50	-	-	627.50
	11/16/2010	637.64	10.87	626.77	-	-	626.77
	12/16/2010	637.64	NR	-	NR	-	-
	01/13/2011	637.64	NR	-	NR	-	-

**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	03/14/2011	637.64	NR	-	NR	-	-
	04/12/2011	637.64	NR	-	NR	-	-
	05/19/2011	637.64	NR	-	NR	-	-
	06/20/2011	637.64	NR	-	NR	-	-
	07/13/2011	637.64	NR	-	NR	-	-
	1595-4-5S	11/30/2005	636.66	10.00	626.66	-	-
	01/26/2006	636.66	9.08	627.58	-	-	627.58
	03/29/2006	636.66	NR	-	NR	-	-
	03/30/2006	636.66	NR	-	NR	-	-
	04/10/2006	636.66	9.45	627.21	-	-	627.21
	05/11/2006	636.66	9.99	626.67	9.78	0.21	626.83
	07/01/2008	636.66	9.50	627.16	-	-	627.16
	09/18/2008	636.66	10.05	626.61	-	-	626.61
	10/23/2008	636.66	10.28	626.38	-	-	626.38
	12/30/2008	636.66	7.38	629.28	-	-	629.28
	01/29/2009	636.66	7.84	628.82	-	-	628.82
	02/24/2009	636.66	8.61	628.05	-	-	628.05
	03/27/2009	636.66	7.92	628.74	7.52	0.40	629.04
	04/28/2009	636.66	8.99	627.67	-	-	627.67
	05/20/2009	636.66	8.82	627.84	-	-	627.84
	06/25/2009	636.66	8.32	628.34	-	-	628.34
	07/21/2009	636.66	9.26	627.40	-	-	627.40
	08/25/2009	636.66	10.05	626.61	-	-	626.61
	09/15/2009	636.66	10.66	626.00	10.65	0.01	626.01
	10/14/2009	636.66	11.69	624.97	11.61	0.08	625.03
	11/10/2009	636.66	10.82	625.84	-	-	625.84
	12/14/2009	636.66	10.96	625.70	-	-	625.70
	01/11/2010	636.66	11.13	625.53	11.10	0.03	625.55
	02/10/2010	636.66	10.68	625.98	-	-	625.98
	03/10/2010	636.66	11.02	625.64	-	-	625.64
	04/14/2010	636.66	10.61	626.05	-	-	626.05
	05/12/2010	636.66	11.05	625.61	-	-	625.61
	06/17/2010	636.66	11.39	625.27	-	-	625.27
	07/14/2010	636.66	11.29	625.37	-	-	625.37
	08/09/2010	636.66	10.97	625.69	-	-	625.69
	09/16/2010	636.66	11.42	625.24	-	-	625.24
	10/13/2010	636.66	9.63	627.03	-	-	627.03
	11/16/2010	636.66	10.15	626.51	-	-	626.51
	12/16/2010	636.66	NR	-	-	NR	-
01/13/2011	636.66	NR	-	-	NR	-	-
03/14/2011	636.66	NR	-	-	NR	-	-
04/12/2011	636.66	NR	-	-	NR	-	-
05/19/2011	636.66	NR	-	-	NR	-	-
06/20/2011	636.66	NR	-	-	NR	-	-
07/13/2011	636.66	NR	-	-	NR	-	-
1595-4-6S	11/30/2005	637.66	10.09	627.57	-	-	627.57
	01/26/2006	637.66	9.02	628.64	-	-	628.64
	03/29/2006	637.66	NR	-	NR	-	-
	03/30/2006	637.66	NR	-	NR	-	-
	04/10/2006	637.66	9.44	628.22	-	-	628.22
	05/11/2006	637.66	9.76	627.90	-	-	627.90
	07/01/2008	637.66	10.25	627.41	-	-	627.41
	09/18/2008	637.66	9.89	627.77	-	-	627.77
	10/23/2008	637.66	10.40	627.26	-	-	627.26
	12/30/2008	637.66	6.72	630.94	-	-	630.94
	01/29/2009	637.66	8.60	629.06	-	-	629.06
	02/24/2009	637.66	8.76	628.90	-	-	628.90
	03/27/2009	637.66	7.82	629.84	-	-	629.84
	04/28/2009	637.66	8.79	628.87	-	-	628.87

**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/20/2009	637.66	8.19	629.47	-	-	629.47
	06/25/2009	637.66	8.91	628.75	-	-	628.75
	07/21/2009	637.66	9.41	628.25	-	-	628.25
	08/25/2009	637.66	10.30	627.36	-	-	627.36
	09/15/2009	637.66	10.68	626.98	-	-	626.98
	10/14/2009	637.66	11.65	626.01	-	-	626.01
	11/10/2009	637.66	11.16	626.50	-	-	626.50
	12/14/2009	637.66	10.87	626.79	-	-	626.79
	01/11/2010	637.66	12.06	625.60	-	-	625.60
	02/10/2010	637.66	11.66	626.00	-	-	626.00
	03/10/2010	637.66	11.69	625.97	-	-	625.97
	04/14/2010	637.66	11.48	626.18	-	-	626.18
	05/12/2010	637.66	11.97	625.69	-	-	625.69
	06/17/2010	637.66	12.31	625.35	-	-	625.35
	07/14/2010	637.66	12.18	625.48	-	-	625.48
	08/09/2010	637.66	11.81	625.85	-	-	625.85
	09/16/2010	637.66	12.32	625.34	-	-	625.34
	10/13/2010	637.66	10.58	627.08	-	-	627.08
	11/16/2010	637.66	10.98	626.68	-	-	626.68
	12/16/2010	637.66	NR	-	NR	-	-
	01/13/2011	637.66	NR	-	NR	-	-
	03/14/2011	637.66	NR	-	NR	-	-
	04/12/2011	637.66	NR	-	NR	-	-
	05/19/2011	637.66	NR	-	NR	-	-
	06/20/2011	637.66	NR	-	NR	-	-
	07/13/2011	637.66	NR	-	NR	-	-
1595-5-1S	11/30/2005	638.53	9.72	628.81	-	-	628.81
	01/26/2006	638.53	8.89	629.64	-	-	629.64
	03/29/2006	638.53	NR	-	NR	-	-
	03/30/2006	638.53	NR	-	NR	-	-
	04/10/2006	638.53	9.32	629.21	-	-	629.21
	05/11/2006	638.53	9.69	628.84	-	-	628.84
	07/01/2008	638.53	10.15	628.38	-	-	628.38
1595-5-2S	11/30/2005	639.28	10.62	628.66	-	-	628.66
	01/26/2006	639.28	9.66	629.62	-	-	629.62
	03/29/2006	639.28	NR	-	NR	-	-
	03/30/2006	639.28	NR	-	NR	-	-
	04/10/2006	639.28	10.05	629.23	-	-	629.23
	05/11/2006	639.28	10.39	628.89	-	-	628.89
	07/01/2008	639.28	10.90	628.38	-	-	628.38
1595-5-3S	11/30/2005	639.57	11.04	628.53	-	-	628.53
	01/26/2006	639.57	10.09	629.48	-	-	629.48
	03/29/2006	639.57	NR	-	NR	-	-
	03/30/2006	639.57	NR	-	NR	-	-
	04/10/2006	639.57	10.46	629.11	-	-	629.11
	05/11/2006	639.57	10.81	628.76	-	-	628.76
	07/01/2008	639.57	11.25	628.32	-	-	628.32
1595-5-4S	11/30/2005	639.73	11.09	628.64	-	-	628.64
	01/26/2006	639.73	10.05	629.68	-	-	629.68
	03/29/2006	639.73	NR	-	NR	-	-
	03/30/2006	639.73	NR	-	NR	-	-
	04/10/2006	639.73	10.45	629.28	-	-	629.28
	05/11/2006	639.73	10.78	628.95	-	-	628.95
	07/01/2008	639.73	11.20	628.53	-	-	628.53
1595-5-5S	11/30/2005	639.84	11.27	628.57	-	-	628.57
	01/26/2006	639.84	10.10	629.74	-	-	629.74

**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	03/29/2006	639.84	NR	-	NR	-	-
	03/30/2006	639.84	NR	-	NR	-	-
	04/10/2006	639.84	10.50	629.34	-	-	629.34
	05/11/2006	639.84	10.83	629.01	-	-	629.01
	07/01/2008	639.84	11.20	628.64	-	-	628.64
1595-6-1S	11/30/2005	639.23	9.63	629.60	-	-	629.60
	01/26/2006	639.23	8.89	630.34	-	-	630.34
	03/29/2006	639.23	NR	-	NR	-	-
	03/30/2006	639.23	NR	-	NR	-	-
	04/10/2006	639.23	9.28	629.95	-	-	629.95
	05/11/2006	639.23	9.90	629.33	9.62	0.28	629.54
	07/01/2008	639.23	9.05	630.18	-	-	630.18
1595-6-2S	11/30/2005	639.51	9.90	629.61	-	-	629.61
	01/26/2006	639.51	9.06	630.45	-	-	630.45
	03/29/2006	639.51	NR	-	NR	-	-
	03/30/2006	639.51	NR	-	NR	-	-
	04/10/2006	639.51	9.40	630.11	-	-	630.11
	05/11/2006	639.51	9.75	629.76	-	-	629.76
	07/01/2008	639.51	10.10	629.41	-	-	629.41
1595-6-3S	11/30/2005	640.36	10.30	630.06	-	-	630.06
	01/26/2006	640.36	9.35	631.01	-	-	631.01
	03/29/2006	640.36	NR	-	NR	-	-
	03/30/2006	640.36	NR	-	NR	-	-
	04/10/2006	640.36	9.61	630.75	-	-	630.75
	05/11/2006	640.36	9.97	630.39	-	-	630.39
	07/01/2008	640.36	10.35	630.01	-	-	630.01
1595-6-4S	11/30/2005	639.74	9.94	629.80	-	-	629.80
	01/26/2006	639.74	9.12	630.62	-	-	630.62
	03/29/2006	639.74	NR	-	NR	-	-
	03/30/2006	639.74	NR	-	NR	-	-
	04/10/2006	639.74	9.44	630.30	-	-	630.30
	05/11/2006	639.74	9.79	629.95	-	-	629.95
	07/01/2008	639.74	10.05	629.69	-	-	629.69
1595-6-5S	11/30/2005	640.45	10.19	630.26	-	-	630.26
	01/26/2006	640.45	9.72	630.73	-	-	630.73
	03/29/2006	640.45	NR	-	NR	-	-
	03/30/2006	640.45	NR	-	NR	-	-
	04/10/2006	640.45	9.43	631.02	-	-	631.02
	05/11/2006	640.45	9.80	630.65	-	-	630.65
	07/01/2008	640.45	10.05	630.40	-	-	630.40
1595-6-6S	11/30/2005	640.02	10.38	629.64	-	-	629.64
	01/26/2006	640.02	9.34	630.68	-	-	630.68
	03/29/2006	640.02	NR	-	NR	-	-
	03/30/2006	640.02	NR	-	NR	-	-
	04/10/2006	640.02	9.66	630.36	-	-	630.36
	05/11/2006	640.02	10.03	629.99	-	-	629.99
	07/01/2008	640.02	10.30	629.72	-	-	629.72
1595-MW1A	09/15/2004	NR	13.21	-	-	-	-
	04/19/2005	NR	11.93	-	-	-	-
Well Decommissioned During Construction of AA/SVE System							
1595-MW3	09/07/2004	638.41	15.42	622.99	-	-	622.99
	09/15/2004	638.41	14.93	623.48	-	-	623.48
	10/04/2004	638.41	15.37	623.04	-	-	623.04
	11/08/2004	638.41	15.84	622.57	-	-	622.57

**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/01/2004	638.41	16.03	622.38	-	-	622.38
	01/04/2005	638.41	14.27	624.14	-	-	624.14
	02/01/2005	638.41	14.30	624.11	-	-	624.11
	03/03/2005	638.41	14.84	623.57	-	-	623.57
	04/08/2005	638.41	13.37	625.04	13.29	0.08	625.10
	04/19/2005	638.41	13.39	625.02	-	-	625.02
	05/02/2005	638.41	13.35	625.06	-	-	625.06
	06/08/2005	638.41	9.04	629.37	-	-	629.37
	04/24/2006	638.41	11.95	626.46	-	-	626.46
	10/03/2006	638.41	13.39	625.02	-	-	625.02
	05/22/2007	638.41	11.79	626.62	-	-	626.62
1595-MW3A	09/15/2004	NR	15.71	-	-	-	-
	04/19/2005	NR	14.63	-	-	-	-
	04/24/2006	NR	13.15	-	-	-	-
	10/03/2006	NR	15.84	-	-	-	-
	05/22/2007	NR	12.95	-	-	-	-
1595-MW5	09/15/2004	NR	17.44	-	-	-	-
	04/19/2005	NR	16.27	-	-	-	-
	04/24/2006	NR	14.55	-	-	-	-
	10/03/2006	NR	16.42	-	-	-	-
	05/22/2007	NR	14.29	-	-	-	-
1595-MWD4	09/15/2004	NR	14.63	-	-	-	-
	04/19/2005	NR	13.15	-	-	-	-
	04/24/2006	NR	11.58	-	-	-	-
	10/03/2006	NR	13.80	-	-	-	-
	05/22/2007	NR	12.08	-	-	-	-
1595-MWD5	09/15/2004	NR	10.14	-	-	-	-
	04/19/2005	NR	9.16	-	-	-	-
	04/24/2006	NR	7.29	-	-	-	-
	10/03/2006	NR	8.67	-	-	-	-
	5/18/22/2007	NR	7.37	-	-	-	-
1595-MWD6	09/15/2004	NR	20.35	-	-	-	-
	04/19/2005	NR	19.31	-	-	-	-
	04/24/2006	NR	14.49	-	-	-	-
	10/06/2006	NR	19.20	-	-	-	-
	05/22/2007	NR	17.23	-	-	-	-
1595-MWI3	09/15/2004	NR	15.28	-	-	-	-
	04/19/2005	NR	13.87	-	-	-	-
Well Decommissioned During Construction of AA/SVE System							
1595-MWS1	09/15/2004	NR	10.09	-	-	-	-
	04/19/2005	NR	9.21	-	-	-	-
	04/24/2006	NR	8.67	-	-	-	-
	10/03/2006	NR	9.96	-	-	-	-
	05/22/2007	NR	8.58	-	-	-	-
1595-MWS2	09/07/2004	642.18	16.18	626.00	-	-	626.00
	09/15/2004	642.18	15.66	626.52	-	-	626.52
	10/04/2004	642.18	16.19	625.99	-	-	625.99
	11/08/2004	642.18	16.63	625.55	-	-	625.55
	12/01/2004	642.18	16.89	625.29	-	-	625.29
	01/04/2005	642.18	15.36	626.82	-	-	626.82
	02/01/2005	642.18	15.30	626.88	-	-	626.88
	03/03/2005	642.18	15.78	626.40	-	-	626.40
	04/08/2005	642.18	14.85	627.33	-	-	627.33
	04/19/2005	642.18	14.53	627.65	-	-	627.65



**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/02/2005	642.18	14.64	627.54	-	-	627.54
	06/08/2005	642.18	15.19	626.99	-	-	626.99
	04/24/2006	642.18	13.26	628.92	-	-	628.92
	10/03/2006	642.18	15.97	626.21	-	-	626.21
	05/22/2007	642.18	12.99	629.19	-	-	629.19
1595-MWS7	12/05/2002	629.00	10.83	618.17	-	-	618.17
	12/13/2002	629.00	10.56	618.44	-	-	618.44
	12/17/2002	629.00	9.94	619.06	-	-	619.06
	12/23/2002	629.00	10.87	618.13	-	-	618.13
	12/27/2002	629.00	10.81	618.19	-	-	618.19
	01/09/2003	629.00	10.33	618.67	-	-	618.67
	01/22/2003	629.00	11.43	617.57	-	-	617.57
	01/28/2003	629.00	11.47	617.53	-	-	617.53
	02/07/2003	629.00	11.26	617.74	-	-	617.74
	02/12/2003	629.00	11.19	617.81	-	-	617.81
	02/18/2003	629.00	11.17	617.83	-	-	617.83
	09/07/2004	629.00	10.95	618.05	-	-	618.05
	09/15/2004	629.00	10.42	618.58	-	-	618.58
	09/21/2004	629.00	10.78	618.22	-	-	618.22
	10/04/2004	629.00	11.07	617.93	-	-	617.93
	10/19/2004	629.00	9.63	619.37	-	-	619.37
	10/29/2004	629.00	10.34	618.66	-	-	618.66
	11/08/2004	629.00	11.22	617.78	-	-	617.78
	12/01/2004	629.00	11.09	617.91	-	-	617.91
	12/16/2004	629.00	10.43	618.57	-	-	618.57
	12/23/2004	629.00	9.63	619.37	-	-	619.37
	01/04/2005	629.00	9.66	619.34	-	-	619.34
	01/13/2005	629.00	9.91	619.09	-	-	619.09
	02/01/2005	629.00	10.42	618.58	-	-	618.58
	02/23/2005	629.00	10.08	618.92	-	-	618.92
	03/03/2005	629.00	10.21	618.79	-	-	618.79
	03/15/2005	629.00	10.07	618.93	-	-	618.93
	04/08/2005	629.00	9.13	619.87	-	-	619.87
	04/19/2005	629.00	9.40	619.60	-	-	619.60
	04/21/2005	629.00	9.50	619.50	-	-	619.50
	05/02/2005	629.00	8.36	620.64	-	-	620.64
	05/19/2005	629.00	9.54	619.46	-	-	619.46
	06/08/2005	629.00	9.63	619.37	-	-	619.37
	06/17/2005	629.00	9.66	619.34	-	-	619.34
	04/24/2006	629.00	7.39	621.61	-	-	621.61
	10/03/2006	629.00	8.80	620.20	-	-	620.20
	05/22/2007	629.00	7.49	621.51	-	-	621.51
1595-MWS8	12/05/2002	630.80	11.42	619.38	-	-	619.38
	12/13/2002	630.80	11.22	619.58	-	-	619.58
	12/17/2002	630.80	10.67	620.13	-	-	620.13
	12/23/2002	630.80	11.38	619.42	-	-	619.42
	12/27/2002	630.80	NR	-	NR	-	-
	01/09/2003	630.80	10.79	620.01	-	-	620.01
	01/22/2003	630.80	11.76	619.04	-	-	619.04
	01/28/2003	630.80	11.83	618.97	-	-	618.97
	02/07/2003	630.80	11.75	619.05	-	-	619.05
	02/12/2003	630.80	11.73	619.07	-	-	619.07
	02/18/2003	630.80	11.63	619.17	-	-	619.17
	09/07/2004	630.80	11.29	619.51	-	-	619.51
	09/15/2004	630.80	10.61	620.19	-	-	620.19
	09/21/2004	630.80	11.08	619.72	-	-	619.72
	10/04/2004	630.80	11.39	619.41	-	-	619.41
	10/19/2004	630.80	10.32	620.48	-	-	620.48
	10/29/2004	630.80	10.87	619.93	-	-	619.93

**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/01/2004	630.80	11.47	619.33	-	-	619.33
	12/16/2004	630.80	10.71	620.09	-	-	620.09
	12/23/2004	630.80	10.21	620.59	-	-	620.59
	01/04/2005	630.80	10.10	620.70	9.92	0.18	620.84
	01/13/2005	630.80	10.33	620.47	10.22	0.11	620.55
	02/01/2005	630.80	10.55	620.25	10.54	0.01	620.26
	02/23/2005	630.80	10.43	620.37	10.42	0.01	620.38
	03/03/2005	630.80	10.60	620.20	10.58	0.02	620.22
	03/15/2005	630.80	10.47	620.33	-	-	620.33
	04/08/2005	630.80	9.36	621.44	9.26	0.10	621.52
	04/19/2005	630.80	9.90	620.90	9.45	0.45	621.24
	04/21/2005	630.80	10.05	620.75	9.57	0.48	621.11
	05/02/2005	630.80	8.88	621.92	8.74	0.14	622.03
	05/19/2005	630.80	9.76	621.04	9.66	0.10	621.12
	06/08/2005	630.80	9.83	620.97	9.81	0.02	620.99
	06/17/2005	630.80	9.98	620.82	-	-	620.82
	04/24/2006	630.80	7.57	623.23	-	-	623.23
	10/03/2006	630.80	9.36	621.44	-	-	621.44
	05/22/2007	630.80	7.53	623.27	-	-	623.27
	09/18/2008	630.80	NR	-	NR	-	-
	10/23/2008	630.80	NR	-	NR	-	-
	12/30/2008	630.80	NR	-	NR	-	-
	01/29/2009	630.80	7.47	623.33	-	-	623.33
1595-MWS9	12/05/2002	623.20	6.10	617.10	-	-	617.10
	12/13/2002	623.20	6.12	617.08	-	-	617.08
	12/17/2002	623.20	5.55	617.65	-	-	617.65
	12/23/2002	623.20	6.00	617.20	-	-	617.20
	12/27/2002	623.20	5.99	617.21	-	-	617.21
	01/09/2003	623.20	5.73	617.47	-	-	617.47
	01/22/2003	623.20	6.42	616.78	-	-	616.78
	01/28/2003	623.20	6.49	616.71	-	-	616.71
	02/07/2003	623.20	6.34	616.86	-	-	616.86
	02/12/2003	623.20	6.29	616.91	-	-	616.91
	02/18/2003	623.20	6.29	616.91	-	-	616.91
	09/07/2004	623.20	6.13	617.07	-	-	617.07
	09/15/2004	623.20	5.69	617.51	-	-	617.51
	09/21/2004	623.20	5.94	617.26	-	-	617.26
	10/04/2004	623.20	6.19	617.01	-	-	617.01
	10/19/2004	623.20	5.32	617.88	-	-	617.88
	10/29/2004	623.20	5.79	617.41	-	-	617.41
	11/08/2004	623.20	6.32	616.88	-	-	616.88
	12/01/2004	623.20	6.06	617.14	-	-	617.14
	12/16/2004	623.20	5.59	617.61	-	-	617.61
	12/23/2004	623.20	5.26	617.94	-	-	617.94
	01/04/2005	623.20	5.09	618.11	-	-	618.11
	01/13/2005	623.20	5.31	617.89	-	-	617.89
	02/01/2005	623.20	5.66	617.54	-	-	617.54
	02/23/2005	623.20	5.47	617.73	-	-	617.73
	03/03/2005	623.20	5.58	617.62	-	-	617.62
	03/15/2005	623.20	5.46	617.74	-	-	617.74
	04/08/2005	623.20	4.75	618.45	-	-	618.45
	04/19/2005	623.20	4.96	618.24	-	-	618.24
	04/21/2005	623.20	5.01	618.19	-	-	618.19
	05/02/2005	623.20	4.45	618.75	-	-	618.75
	05/19/2005	623.20	5.04	618.16	-	-	618.16
	06/08/2005	623.20	5.11	618.09	-	-	618.09
	06/17/2005	623.20	5.13	618.07	-	-	618.07
	04/24/2006	623.20	3.86	619.34	-	-	619.34
	10/03/2006	623.20	4.80	618.40	-	-	618.40
	05/22/2007	623.20	4.02	619.18	-	-	619.18

**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
1595-MW33	09/15/2004	NR	12.45	-	-	-	-
	04/19/2005	NR	11.25	-	-	-	-
	04/24/2006	NR	9.87	-	-	-	-
	10/03/2006	NR	12.56	-	-	-	-
	05/22/2007	NR	9.71	-	-	-	-
1595-MW34	09/15/2004	NR	15.39	-	-	-	-
	04/19/2005	NR	14.20	-	-	-	-
	04/24/2006	NR	12.78	-	-	-	-
	10/03/2006	NR	15.50	-	-	-	-
	05/22/2007	NR	12.61	-	-	-	-
1595-MW35	09/15/2004	NR	14.66	-	-	-	-
	04/19/2005	NR	14.79	-	-	-	-
	04/24/2006	NR	12.25	-	-	-	-
	10/03/2006	NR	15.22	-	-	-	-
	05/22/2007	NR	11.92	-	-	-	-
1595-OBG1	09/15/2004	NR	18.91	-	-	-	-
	04/19/2005	NR	17.63	-	-	-	-
	04/24/2006	NR	16.06	-	-	-	-
	10/03/2006	NR	18.13	-	-	-	-
	05/22/2007	NR	15.47	-	-	-	-
1595-OBG2	12/05/2002	637.98	14.70	623.28	-	-	623.28
	12/13/2002	637.98	14.57	623.41	-	-	623.41
	12/17/2002	637.98	14.83	623.15	-	-	623.15
	12/23/2002	637.98	14.30	623.68	-	-	623.68
	12/27/2002	637.98	16.88	621.10	-	-	621.10
	01/09/2003	637.98	14.08	623.90	-	-	623.90
	01/22/2003	637.98	NR	-	NR	-	-
	01/28/2003	637.98	NR	-	NR	-	-
	02/07/2003	637.98	NR	-	NR	-	-
	02/12/2003	637.98	NR	-	NR	-	-
	09/07/2004	637.98	13.82	624.16	-	-	624.16
	09/15/2004	637.98	13.28	624.70	-	-	624.70
	09/21/2004	637.98	13.44	624.54	-	-	624.54
	10/04/2004	637.98	13.79	624.19	-	-	624.19
	10/19/2004	637.98	13.82	624.16	-	-	624.16
	10/29/2004	637.98	14.08	623.90	-	-	623.90
	11/08/2004	637.98	14.40	623.58	-	-	623.58
	12/01/2004	637.98	14.47	623.51	-	-	623.51
	12/16/2004	637.98	13.59	624.39	13.25	0.34	624.65
	12/23/2004	637.98	13.50	624.48	13.06	0.44	624.81
	01/04/2005	637.98	12.80	625.18	12.78	0.02	625.20
	01/13/2005	637.98	12.94	625.04	12.75	0.19	625.18
	02/01/2005	637.98	12.84	625.14	12.70	0.14	625.25
	02/23/2005	637.98	13.05	624.93	-	-	624.93
	03/03/2005	637.98	13.23	624.75	-	-	624.75
	03/15/2005	637.98	13.26	624.72	-	-	624.72
	04/08/2005	637.98	12.06	625.92	11.88	0.18	626.06
	04/19/2005	637.98	12.26	625.72	11.80	0.46	626.07
	04/21/2005	637.98	12.45	625.53	11.90	0.55	625.95
	05/02/2005	637.98	11.98	626.00	11.92	0.06	626.05
05/19/2005	637.98	12.18	625.80	12.07	0.11	625.88	
06/08/2005	637.98	12.47	625.51	-	-	625.51	
06/17/2005	637.98	12.73	625.25	-	-	625.25	
04/24/2006	637.98	10.86	627.12	10.67	0.19	627.26	
10/03/2006	637.98	12.32	625.66	-	-	625.66	
05/22/2007	637.98	10.63	627.35	10.44	0.19	627.49	

**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/28/2009	637.98	10.00	627.98	9.99	0.01	627.99
	05/20/2009	637.98	9.85	628.13	-	-	628.13
	06/25/2009	637.98	10.34	627.64	-	-	627.64
	07/21/2009	637.98	11.23	626.75	11.01	0.22	626.92
	08/25/2009	637.98	11.78	626.20	Sheen	-	626.20
	09/15/2009	637.98	12.34	625.64	-	-	625.64
	10/14/2009	637.98	12.67	625.31	-	-	625.31
	11/10/2009	637.98	12.63	625.35	-	-	625.35
	12/14/2009	637.98	12.77	625.21	-	-	625.21
	01/11/2010	637.98	12.99	624.99	-	-	624.99
	02/10/2010	637.98	12.56	625.42	-	-	625.42
	03/10/2010	637.98	13.16	624.82	-	-	624.82
	04/14/2010	637.98	12.51	625.47	-	-	625.47
	05/12/2010	637.98	12.96	625.02	-	-	625.02
	06/17/2010	637.98	13.31	624.67	-	-	624.67
	07/14/2010	637.98	13.19	624.79	-	-	624.79
	08/09/2010	637.98	12.81	625.17	-	-	625.17
	09/16/2010	637.98	13.24	624.74	-	-	624.74
	10/13/2010	637.98	10.84	627.14	-	-	627.14
	11/16/2010	637.98	12.02	625.96	11.98	0.04	626.00
	12/16/2010	637.98	NR	-	NR	-	-
	01/13/2011	637.98	NR	-	NR	-	-
	03/14/2011	637.98	NR	-	NR	-	-
	04/12/2011	637.98	NR	-	NR	-	-
	05/19/2011	637.98	NR	-	NR	-	-
	06/20/2011	637.98	NR	-	NR	-	-
	07/13/2011	637.98	NR	-	NR	-	-
1595-OBG3	12/05/2002	636.87	15.92	620.95	-	-	620.95
	12/13/2002	636.87	15.70	621.17	-	-	621.17
	12/17/2002	636.87	15.23	621.64	-	-	621.64
	12/23/2002	636.87	15.48	621.39	-	-	621.39
	12/27/2002	636.87	15.27	621.60	-	-	621.60
	01/09/2003	636.87	14.95	621.92	-	-	621.92
	01/22/2003	636.87	15.66	621.21	-	-	621.21
	01/28/2003	636.87	15.76	621.11	-	-	621.11
	02/07/2003	636.87	15.90	620.97	-	-	620.97
	02/12/2003	636.87	15.83	621.04	-	-	621.04
	02/18/2003	636.87	15.78	621.09	-	-	621.09
	09/07/2004	636.87	15.29	621.58	-	-	621.58
	09/15/2004	636.87	14.68	622.19	-	-	622.19
	09/21/2004	636.87	14.97	621.90	-	-	621.90
	10/04/2004	636.87	15.32	621.55	-	-	621.55
	10/19/2004	636.87	14.85	622.02	-	-	622.02
	10/29/2004	636.87	15.23	621.64	-	-	621.64
	11/08/2004	636.87	15.78	621.09	-	-	621.09
	12/01/2004	636.87	15.75	621.12	-	-	621.12
	12/16/2004	636.87	14.57	622.30	-	-	622.30
	12/23/2004	636.87	14.41	622.46	-	-	622.46
	01/04/2005	636.87	14.00	622.87	-	-	622.87
	01/13/2005	636.87	14.19	622.68	-	-	622.68
	02/01/2005	636.87	14.29	622.58	-	-	622.58
	02/23/2005	636.87	14.46	622.41	-	-	622.41
	03/03/2005	636.87	14.65	622.22	-	-	622.22
	03/15/2005	636.87	14.60	622.27	-	-	622.27
	04/08/2005	636.87	13.11	623.76	-	-	623.76
	04/19/2005	636.87	13.31	623.56	-	-	623.56
	04/21/2005	636.87	13.43	623.44	13.42	0.01	623.45
	05/02/2005	636.87	13.08	623.79	-	-	623.79
	05/19/2005	636.87	14.55	622.32	14.54	0.01	622.33
	06/08/2005	636.87	13.79	623.08	-	-	623.08

**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/17/2005	636.87	14.05	622.82	-	-	622.82
	04/24/2006	636.87	11.74	625.13	-	-	625.13
	10/03/2006	636.87	13.92	622.95	-	-	622.95
	05/22/2007	636.87	11.64	625.23	-	-	625.23
1595-OBG4	09/15/2004	NR	17.16	-	-	-	-
	04/19/2005	NR	15.91	-	-	-	-
	04/24/2006	NR	14.46	-	-	-	-
	10/03/2006	NR	17.11	-	-	-	-
	05/22/2007	NR	14.03	-	-	-	-
1595-OBG5	09/15/2004	NR	15.53	-	-	-	-
	04/19/2005	NR	14.66	-	-	-	-
	04/24/2006	NR	13.66	-	-	-	-
	10/03/2006	NR	15.22	-	-	-	-
	05/22/2007	NR	13.50	-	-	-	-
1595-OBG6	09/15/2004	NR	9.26	-	-	-	-
	04/19/2005	NR	8.35	-	-	-	-
	04/24/2006	NR	7.11	-	-	-	-
	10/03/2006	NR	8.66	-	-	-	-
	05/22/2007	NR	7.18	-	-	-	-
1595-OBG7	09/15/2004	NR	6.80	-	-	-	-
	04/19/2005	NR	6.25	-	-	-	-
	04/24/2006	NR	5.91	-	-	-	-
	10/03/2006	NR	6.53	-	-	-	-
	05/22/2007	NR	5.96	-	-	-	-
1595-OBG8	09/15/2004	NR	9.29	-	-	-	-
	04/19/2005	NR	8.08	-	-	-	-
	04/24/2006	NR	6.82	-	-	-	-
	10/03/2006	NR	9.44	-	-	-	-
	05/22/2007	NR	6.87	-	-	-	-
1595-OBG9	09/15/2004	NR	10.17	-	-	-	-
	04/19/2005	NR	9.04	-	-	-	-
	04/24/2006	NR	7.88	-	-	-	-
	10/03/2006	NR	10.69	-	-	-	-
	05/22/2007	NR	7.81	-	-	-	-
1595-PZ1	12/05/2002	631.53	13.38	618.15	-	-	618.15
	12/13/2002	631.53	13.11	618.42	-	-	618.42
	12/17/2002	631.53	12.32	619.21	-	-	619.21
	12/23/2002	631.53	13.63	617.90	-	-	617.90
	12/27/2002	631.53	13.54	617.99	-	-	617.99
	01/09/2003	631.53	12.89	618.64	-	-	618.64
	01/22/2003	631.53	14.00	617.53	-	-	617.53
	01/28/2003	631.53	14.10	617.43	-	-	617.43
	02/07/2003	631.53	13.84	617.69	-	-	617.69
	02/12/2003	631.53	13.61	617.92	-	-	617.92
	02/18/2003	631.53	13.74	617.79	-	-	617.79
	09/07/2004	631.53	13.56	617.97	-	-	617.97
	09/15/2004	631.53	13.09	618.44	-	-	618.44
	09/21/2004	631.53	13.47	618.06	-	-	618.06
	10/04/2004	631.53	13.63	617.90	-	-	617.90
	10/19/2004	631.53	12.02	619.51	-	-	619.51
	10/29/2004	631.53	12.66	618.87	-	-	618.87
	11/08/2004	631.53	13.91	617.62	-	-	617.62
	12/01/2004	631.53	13.82	617.71	-	-	617.71
	12/16/2004	631.53	13.15	618.38	-	-	618.38

**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/23/2004	631.53	12.06	619.47	-	-	619.47
	01/04/2005	631.53	12.32	619.21	-	-	619.21
	01/13/2005	631.53	12.60	618.93	-	-	618.93
	02/01/2005	631.53	12.99	618.54	-	-	618.54
	02/23/2005	631.53	12.66	618.87	-	-	618.87
	03/03/2005	631.53	12.74	618.79	-	-	618.79
	03/15/2005	631.53	12.54	618.99	-	-	618.99
	04/08/2005	631.53	11.69	619.84	-	-	619.84
	04/19/2005	631.53	11.94	619.59	-	-	619.59
	04/21/2005	631.53	12.05	619.48	-	-	619.48
	05/02/2005	631.53	10.64	620.89	-	-	620.89
	05/19/2005	631.53	12.08	619.45	-	-	619.45
	06/08/2005	631.53	12.13	619.40	-	-	619.40
	06/17/2005	631.53	12.21	619.32	-	-	619.32
	04/24/2006	631.53	9.66	621.87	-	-	621.87
	10/03/2006	631.53	11.15	620.38	-	-	620.38
	05/22/2007	631.53	9.68	621.85	-	-	621.85
1595-PZ2	12/05/2002	630.46	12.58	617.88	-	-	617.88
	12/13/2002	630.46	12.32	618.14	-	-	618.14
	12/17/2002	630.46	11.58	618.88	-	-	618.88
	12/23/2002	630.46	12.79	617.67	-	-	617.67
	12/27/2002	630.46	12.72	617.74	-	-	617.74
	01/09/2003	630.46	12.11	618.35	-	-	618.35
	01/22/2003	630.46	13.22	617.24	-	-	617.24
	01/28/2003	630.46	DRY	-	DRY	-	-
	02/07/2003	630.46	13.03	617.43	-	-	617.43
	02/12/2003	630.46	12.96	617.50	-	-	617.50
	02/18/2003	630.46	12.94	617.52	-	-	617.52
	09/07/2004	630.46	12.79	617.67	-	-	617.67
	09/15/2004	630.46	12.31	618.15	-	-	618.15
	09/21/2004	630.46	12.65	617.81	-	-	617.81
	10/04/2004	630.46	12.84	617.62	-	-	617.62
	10/19/2004	630.46	11.28	619.18	-	-	619.18
	10/29/2004	630.46	11.97	618.49	-	-	618.49
	11/08/2004	630.46	13.07	617.39	-	-	617.39
	12/01/2004	630.46	12.97	617.49	-	-	617.49
	12/16/2004	630.46	12.35	618.11	-	-	618.11
	12/23/2004	630.46	11.34	619.12	-	-	619.12
	01/04/2005	630.46	11.56	618.90	-	-	618.90
	01/13/2005	630.46	11.82	618.64	-	-	618.64
	02/01/2005	630.46	12.25	618.21	-	-	618.21
	02/23/2005	630.46	11.90	618.56	-	-	618.56
	03/03/2005	630.46	11.99	618.47	-	-	618.47
	03/15/2005	630.46	11.81	618.65	-	-	618.65
	04/08/2005	630.46	11.00	619.46	-	-	619.46
	04/19/2005	630.46	11.25	619.21	-	-	619.21
	04/21/2005	630.46	11.33	619.13	-	-	619.13
	05/02/2005	630.46	10.02	620.44	-	-	620.44
	05/19/2005	630.46	11.36	619.10	-	-	619.10
	06/08/2005	630.46	11.40	619.06	-	-	619.06
	06/17/2005	630.46	11.48	618.98	-	-	618.98
	Well Decommissioned During Construction of AA/SVE System						
1595-PZ4	09/16/2004	NR	11.51	-	-	-	-
	04/19/2005	NR	10.30	-	-	-	-
	04/24/2006	NR	8.36	-	-	-	-
	10/03/2006	NR	10.12	-	-	-	-
	05/22/2007	NR	8.32	-	-	-	-

**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
1595-PZ6	09/15/2004	NR	5.87	-	-	-	-
	04/19/2005	NR	5.17	-	-	-	-
Well Decommissioned During Construction of AA/SVE System							
1595-PZ7	09/15/2004	NR	19.21	-	-	-	-
	04/19/2005	NR	18.18	-	-	-	-
	04/24/2006	NR	16.29	-	-	-	-
	10/03/2006	NR	18.00	-	-	-	-
	05/22/2007	NR	16.04	-	-	-	-
1595-PZ8	12/05/2002	630.29	13.90	616.39	-	-	616.39
	12/13/2002	630.29	13.88	616.41	-	-	616.41
	12/17/2002	630.29	13.03	617.26	-	-	617.26
	12/23/2002	630.29	14.13	616.16	-	-	616.16
	12/27/2002	630.29	14.14	616.15	-	-	616.15
	01/09/2003	630.29	13.92	616.37	-	-	616.37
	01/22/2003	630.29	14.31	615.98	-	-	615.98
	01/28/2003	630.29	14.40	615.89	-	-	615.89
	02/07/2003	630.29	14.35	615.94	-	-	615.94
	02/12/2003	630.29	14.32	615.97	-	-	615.97
	02/18/2003	630.29	14.27	616.02	-	-	616.02
	09/07/2004	630.29	13.90	616.39	-	-	616.39
	09/15/2004	630.29	13.65	616.64	-	-	616.64
	09/21/2004	630.29	13.98	616.31	-	-	616.31
	10/04/2004	630.29	14.01	616.28	-	-	616.28
	10/19/2004	630.29	12.72	617.57	-	-	617.57
	10/29/2004	630.29	13.51	616.78	-	-	616.78
	11/08/2004	630.29	14.50	615.79	-	-	615.79
	12/01/2004	630.29	14.41	615.88	-	-	615.88
	12/16/2004	630.29	14.06	616.23	-	-	616.23
	12/23/2004	630.29	12.86	617.43	-	-	617.43
	01/04/2005	630.29	13.15	617.14	-	-	617.14
	01/13/2005	630.29	13.26	617.03	-	-	617.03
	02/01/2005	630.29	13.52	616.77	-	-	616.77
	02/23/2005	630.29	13.52	616.77	-	-	616.77
	03/03/2005	630.29	13.60	616.69	-	-	616.69
	03/15/2005	630.29	13.33	616.96	-	-	616.96
04/08/2005	630.29	12.65	617.64	-	-	617.64	
04/19/2005	630.29	12.80	617.49	-	-	617.49	
04/21/2005	630.29	12.85	617.44	-	-	617.44	
05/02/2005	630.29	11.55	618.74	-	-	618.74	
05/19/2005	630.29	12.10	618.19	-	-	618.19	
06/08/2005	630.29	12.12	618.17	-	-	618.17	
06/17/2005	630.29	12.30	617.99	-	-	617.99	
04/24/2006	630.29	7.57	622.72	-	-	622.72	
10/03/2006	630.29	12.01	618.28	-	-	618.28	
05/22/2007	630.29	10.45	619.84	-	-	619.84	
1595-PZ9	09/07/2004	630.77	10.67	620.10	-	-	620.10
	09/15/2005	630.77	9.50	621.27	-	-	621.27
	10/04/2004	630.77	10.84	619.93	-	-	619.93
	11/08/2004	630.77	11.43	619.34	-	-	619.34
	12/01/2004	630.77	10.88	619.89	-	-	619.89
	01/04/2005	630.77	9.32	621.45	-	-	621.45
	02/01/2005	630.77	9.91	620.86	-	-	620.86
	03/03/2005	630.77	9.97	620.80	-	-	620.80
	04/08/2005	630.77	8.54	622.23	-	-	622.23
	04/19/2005	630.77	8.89	621.88	-	-	621.88
	05/02/2005	630.77	8.38	622.39	-	-	622.39
	06/08/2005	630.77	9.31	621.46	-	-	621.46
	04/24/2006	630.77	7.78	622.99	-	-	622.99
10/03/2006	630.77	9.08	621.69	-	-	621.69	

**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/22/2007	630.77	7.22	623.55	-	-	623.55
1595-PZ10	09/07/2004	640.33	16.59	623.74	-	-	623.74
	09/15/2005	640.33	16.12	624.21	-	-	624.21
	10/04/2004	640.33	16.54	623.79	-	-	623.79
	11/08/2004	640.33	17.13	623.20	-	-	623.20
	12/01/2004	640.33	17.26	623.07	-	-	623.07
	01/04/2005	640.33	15.59	624.74	-	-	624.74
	02/01/2005	640.33	15.49	624.84	-	-	624.84
	03/03/2005	640.33	16.01	624.32	-	-	624.32
	04/08/2005	640.33	14.71	625.62	-	-	625.62
	04/19/2005	640.33	14.67	625.66	-	-	625.66
	05/02/2005	640.33	14.73	625.60	-	-	625.60
	06/08/2005	640.33	15.23	625.10	-	-	625.10
	04/24/2006	640.33	13.29	627.04	-	-	627.04
	10/03/2006	640.33	15.87	624.46	-	-	624.46
	05/22/2007	640.33	13.03	627.30	-	-	627.30
1595-PZ11	12/05/2002	639.63	17.60	622.03	-	-	622.03
	12/13/2002	639.63	17.40	622.23	-	-	622.23
	12/17/2002	639.63	16.95	622.68	-	-	622.68
	12/23/2002	639.63	17.06	622.57	-	-	622.57
	12/27/2002	639.63	16.78	622.85	-	-	622.85
	01/09/2003	639.63	16.48	623.15	-	-	623.15
	01/22/2003	639.63	16.99	622.64	-	-	622.64
	01/28/2003	639.63	17.09	622.54	-	-	622.54
	02/07/2003	639.63	17.40	622.23	-	-	622.23
	02/12/2003	639.63	17.06	622.57	-	-	622.57
	02/18/2003	639.63	17.30	622.33	-	-	622.33
	09/07/2004	639.63	16.64	622.99	-	-	622.99
	09/15/2004	639.63	16.21	623.42	-	-	623.42
	09/21/2004	639.63	16.35	623.28	-	-	623.28
	10/04/2004	639.63	16.59	623.04	-	-	623.04
	10/19/2004	639.63	16.48	623.15	-	-	623.15
	10/29/2004	639.63	16.79	622.84	-	-	622.84
	11/08/2004	639.63	17.22	622.41	-	-	622.41
	12/01/2004	639.63	17.27	622.36	-	-	622.36
	12/16/2004	639.63	16.07	623.56	-	-	623.56
	12/23/2004	639.63	15.89	623.74	-	-	623.74
	01/04/2005	639.63	15.55	624.08	-	-	624.08
	01/13/2005	639.63	15.59	624.04	-	-	624.04
	02/01/2005	639.63	15.52	624.11	-	-	624.11
	02/23/2005	639.63	15.89	623.74	-	-	623.74
	03/03/2005	639.63	16.08	623.55	-	-	623.55
	03/15/2005	639.63	16.08	623.55	-	-	623.55
	04/08/2005	639.63	14.57	625.06	-	-	625.06
	04/19/2005	639.63	14.63	625.00	-	-	625.00
	04/21/2005	639.63	14.72	624.91	-	-	624.91
	05/02/2005	639.63	14.62	625.01	-	-	625.01
	05/19/2005	639.63	14.84	624.79	-	-	624.79
06/08/2005	639.63	15.18	624.45	-	-	624.45	
06/17/2005	639.63	15.45	624.18	-	-	624.18	
04/24/2006	639.63	13.22	626.41	-	-	626.41	
10/03/2006	639.63	15.65	623.98	-	-	623.98	
05/22/2007	639.63	13.04	626.59	-	-	626.59	
1595-PZ12	09/07/2004	637.87	15.52	622.35	-	-	622.35
	09/15/2005	637.87	15.01	622.86	-	-	622.86
	10/04/2004	637.87	15.52	622.35	-	-	622.35
	11/08/2004	637.87	16.03	621.84	-	-	621.84
	12/01/2004	637.87	16.27	621.60	-	-	621.60



**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/04/2005	637.87	14.76	623.11	-	-	623.11
	02/01/2005	637.87	14.56	623.31	-	-	623.31
	03/03/2005	637.87	15.03	622.84	-	-	622.84
	04/08/2005	637.87	14.18	623.69	-	-	623.69
	04/19/2005	637.87	5.87	632.00	-	-	632.00
	05/02/2005	637.87	13.92	623.95	-	-	623.95
	06/08/2005	637.87	14.44	623.43	-	-	623.43
	04/24/2006	637.87	12.41	625.46	-	-	625.46
	10/03/2006	637.87	15.16	622.71	-	-	622.71
	05/22/2007	637.87	12.08	625.79	-	-	625.79
1595-PZ13	09/07/2004	654.40	11.82	642.58	-	-	642.58
	09/15/2005	654.40	11.99	642.41	-	-	642.41
	10/04/2004	654.40	11.83	642.57	-	-	642.57
	11/08/2004	654.40	12.34	642.06	-	-	642.06
	01/04/2005	654.40	11.16	643.24	-	-	643.24
	02/01/2005	654.40	10.96	643.44	-	-	643.44
	04/08/2005	654.40	10.64	643.76	-	-	643.76
	04/19/2005	654.40	10.20	644.20	-	-	644.20
	05/02/2005	654.40	10.21	644.19	-	-	644.19
	06/08/2005	654.40	10.81	643.59	-	-	643.59
	04/24/2006	654.40	8.70	645.70	-	-	645.70
	10/03/2006	654.40	11.60	642.80	-	-	642.80
	05/22/2007	654.40	8.35	646.05	-	-	646.05
1595-RW1	12/05/2002	631.30	16.33	614.97	-	-	614.97
	12/13/2002	631.30	15.21	616.09	-	-	616.09
	12/17/2002	631.30	12.42	618.88	-	-	618.88
	12/23/2002	631.30	27.82	603.48	-	-	603.48
	12/27/2002	631.30	25.97	605.33	-	-	605.33
	01/09/2003	631.30	15.47	615.83	-	-	615.83
	01/22/2003	631.30	19.31	611.99	-	-	611.99
	01/28/2003	631.30	19.51	611.79	-	-	611.79
	02/07/2003	631.30	17.11	614.19	-	-	614.19
	02/12/2003	631.30	15.59	615.71	15.57	0.02	615.73
	02/18/2003	631.30	18.69	612.61	18.54	0.15	612.72
	09/07/2004	631.30	22.06	609.24	-	-	609.24
	09/14/2004	631.30	22.02	609.28	-	-	609.28
	09/21/2004	631.30	21.29	610.01	-	-	610.01
	10/04/2004	631.30	18.56	612.74	-	-	612.74
	10/19/2004	631.30	12.12	619.18	-	-	619.18
	10/29/2004	631.30	20.78	610.52	-	-	610.52
	11/08/2004	631.30	19.79	611.51	-	-	611.51
	12/01/2004	631.30	21.86	609.44	-	-	609.44
	12/16/2004	631.30	20.68	610.62	-	-	610.62
	12/23/2004	631.30	12.18	619.12	-	-	619.12
	01/04/2005	631.30	19.53	611.77	-	-	611.77
	01/13/2005	631.30	18.83	612.47	-	-	612.47
	02/01/2005	631.30	19.57	611.73	-	-	611.73
	02/23/2005	631.30	17.21	614.09	-	-	614.09
	03/03/2005	631.30	16.33	614.97	-	-	614.97
	03/15/2005	631.30	15.36	615.94	-	-	615.94
	04/08/2005	631.30	18.06	613.24	-	-	613.24
	04/19/2005	631.30	19.55	611.75	18.78	0.77	612.34
	04/21/2005	631.30	18.70	612.60	17.87	0.83	613.23
	05/02/2005	631.30	10.73	620.57	-	-	620.57
	05/19/2005	631.30	20.62	610.68	20.53	0.09	610.75
	06/08/2005	631.30	22.27	609.03	-	-	609.03
	06/17/2005	631.30	22.41	608.89	-	-	608.89
1595-RW2	09/15/2004	NR	8.86	-	-	-	-

Well Decommissioned During Construction of AA/SVE System

**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/19/2005	NR	7.82	-	-	-	-
	04/24/2006	NR	6.30	-	-	-	-
	10/03/2006	NR	7.94	-	-	-	-
	05/22/2007	NR	6.40	-	-	-	-
1595-RW3	12/05/2002	628.80	14.79	614.01	-	-	614.01
	12/13/2002	628.80	15.70	613.10	-	-	613.10
	12/17/2002	628.80	10.72	618.08	-	-	618.08
	12/23/2002	628.80	15.26	613.54	-	-	613.54
	12/27/2002	628.80	15.39	613.41	-	-	613.41
	01/09/2003	628.80	16.10	612.70	-	-	612.70
	01/22/2003	628.80	15.85	612.95	-	-	612.95
	01/28/2003	628.80	15.68	613.12	-	-	613.12
	02/07/2003	628.80	16.00	612.80	-	-	612.80
	02/12/2003	628.80	15.81	612.99	-	-	612.99
	02/18/2003	628.80	15.89	612.91	-	-	612.91
	09/07/2004	628.80	14.90	613.90	-	-	613.90
	09/15/2004	628.80	22.50	606.30	-	-	606.30
	09/21/2004	628.80	16.90	611.90	-	-	611.90
	10/04/2004	628.80	15.37	613.43	-	-	613.43
	10/19/2004	628.80	10.42	618.38	-	-	618.38
	10/29/2004	628.80	15.11	613.69	-	-	613.69
	11/08/2004	628.80	17.49	611.31	-	-	611.31
	12/01/2004	628.80	16.84	611.96	-	-	611.96
	12/16/2004	628.80	17.80	611.00	-	-	611.00
	12/23/2004	628.80	10.57	618.23	-	-	618.23
	01/04/2005	628.80	15.94	612.86	-	-	612.86
	01/13/2005	628.80	14.22	614.58	-	-	614.58
	02/01/2005	628.80	16.00	612.80	-	-	612.80
	02/23/2005	628.80	17.15	611.65	-	-	611.65
	03/03/2005	628.80	16.81	611.99	-	-	611.99
	03/15/2005	628.80	15.46	613.34	-	-	613.34
	04/08/2005	628.80	14.79	614.01	-	-	614.01
	04/19/2005	628.80	16.92	611.88	-	-	611.88
	04/21/2005	628.80	16.40	612.40	-	-	612.40
	05/02/2005	628.80	9.16	619.64	-	-	619.64
	05/19/2005	628.80	10.04	618.76	-	-	618.76
	06/08/2005	628.80	10.04	618.76	-	-	618.76
	06/17/2005	628.80	10.23	618.57	-	-	618.57
	04/24/2006	628.80	8.09	620.71	-	-	620.71
	10/03/2006	628.80	9.60	619.20	-	-	619.20
	05/22/2007	628.80	8.03	620.77	-	-	620.77
1595-RW4	12/05/2002	638.96	21.92	617.04	-	-	617.04
	12/13/2002	638.96	21.85	617.11	-	-	617.11
	12/17/2002	638.96	16.58	622.38	-	-	622.38
	12/23/2002	638.96	18.45	620.51	-	-	620.51
	12/27/2002	638.96	16.65	622.31	-	-	622.31
	01/09/2003	638.96	16.41	622.55	16.35	0.06	622.60
	01/22/2003	638.96	18.36	620.60	18.33	0.03	620.62
	01/28/2003	638.96	16.93	622.03	16.91	0.02	622.05
	02/07/2003	638.96	19.47	619.49	-	-	619.49
	02/12/2003	638.96	16.86	622.10	-	-	622.10
	02/18/2003	638.96	17.88	621.08	17.85	0.03	621.10
	09/07/2004	638.96	17.21	621.75	17.19	0.02	621.77
	09/15/2004	638.96	18.42	620.54	18.41	0.01	620.55
	09/21/2004	638.96	17.41	621.55	-	-	621.55
	10/04/2004	638.96	16.57	622.39	16.54	0.03	622.41
	10/19/2004	638.96	16.18	622.78	-	-	622.78
	10/29/2004	638.96	17.34	621.62	-	-	621.62
	11/08/2004	638.96	18.57	620.39	18.54	0.03	620.41

**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/01/2004	638.96	18.67	620.29	-	-	620.29
	12/16/2004	638.96	16.60	622.36	16.54	0.06	622.41
	12/23/2004	638.96	15.61	623.35	-	-	623.35
	01/04/2005	638.96	16.57	622.39	16.56	0.01	622.40
	01/13/2005	638.96	16.37	622.59	16.31	0.06	622.64
	02/01/2005	638.96	15.40	623.56	-	-	623.56
	02/23/2005	638.96	17.03	621.93	17.02	0.01	621.94
	03/03/2005	638.96	17.90	621.06	17.86	0.04	621.09
	03/15/2005	638.96	17.68	621.28	17.62	0.06	621.33
	04/08/2005	638.96	14.29	624.67	-	-	624.67
	04/19/2005	638.96	14.42	624.54	14.41	0.01	624.55
	04/21/2005	638.96	14.57	624.39	14.52	0.05	624.43
	05/02/2005	638.96	14.33	624.63	-	-	624.63
	05/19/2005	638.96	14.75	624.21	14.63	0.12	624.30
	06/08/2005	638.96	14.96	624.00	14.92	0.04	624.03
	06/17/2005	638.96	15.20	623.76	-	-	623.76
	04/24/2006	638.96	12.97	625.99	-	-	625.99
	10/03/2006	638.96	15.33	623.63	15.29	0.04	623.66
	05/22/2007	638.96	12.82	626.14	-	-	626.14
1595-RW5	12/05/2002	630.45	13.08	617.37	-	-	617.37
	12/13/2002	630.45	12.35	618.10	-	-	618.10
	12/17/2002	630.45	10.62	619.83	-	-	619.83
	12/23/2002	630.45	13.20	617.25	-	-	617.25
	12/27/2002	630.45	13.02	617.43	-	-	617.43
	01/09/2003	630.45	12.81	617.64	-	-	617.64
	01/22/2003	630.45	16.31	614.14	-	-	614.14
	01/28/2003	630.45	15.64	614.81	-	-	614.81
	02/07/2003	630.45	15.25	615.20	-	-	615.20
	02/12/2003	630.45	14.71	615.74	-	-	615.74
	02/18/2003	630.45	14.31	616.14	-	-	616.14
	09/07/2004	630.45	13.19	617.26	-	-	617.26
	09/16/2004	630.45	13.00	617.45	-	-	617.45
	09/21/2004	630.45	13.15	617.30	-	-	617.30
	10/04/2004	630.45	14.25	616.20	-	-	616.20
	10/19/2004	630.45	10.35	620.10	-	-	620.10
	10/29/2004	630.45	13.13	617.32	-	-	617.32
	11/08/2004	630.45	13.34	617.11	-	-	617.11
	12/01/2004	630.45	13.39	617.06	-	-	617.06
	12/16/2004	630.45	13.28	617.17	-	-	617.17
	12/23/2004	630.45	10.17	620.28	-	-	620.28
	01/04/2005	630.45	12.09	618.36	-	-	618.36
	01/13/2005	630.45	11.71	618.74	-	-	618.74
	02/01/2005	630.45	13.93	616.52	-	-	616.52
	02/23/2005	630.45	12.38	618.07	-	-	618.07
	03/03/2005	630.45	12.73	617.72	-	-	617.72
	03/15/2005	630.45	13.18	617.27	-	-	617.27
	04/08/2005	630.45	11.33	619.12	-	-	619.12
	04/19/2005	630.45	12.18	618.27	-	-	618.27
	04/21/2005	630.45	12.32	618.13	-	-	618.13
	05/02/2005	630.45	8.90	621.55	-	-	621.55
	05/19/2005	630.45	12.15	618.30	-	-	618.30
	06/08/2005	630.45	12.75	617.70	-	-	617.70
	06/17/2005	630.45	11.72	618.73	-	-	618.73
	04/24/2006	630.45	7.83	622.62	-	-	622.62
	10/03/2006	630.45	9.46	620.99	-	-	620.99
	05/22/2007	630.45	7.86	622.59	-	-	622.59
1595-RW6	12/05/2002	620.40	4.87	615.53	-	-	615.53
	12/13/2002	620.40	4.80	615.60	-	-	615.60
	12/17/2002	620.40	4.58	615.82	-	-	615.82

**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/23/2002	620.40	4.79	615.61	-	-	615.61
	12/27/2002	620.40	4.82	615.58	-	-	615.58
	01/09/2003	620.40	4.70	615.70	-	-	615.70
	01/22/2003	620.40	5.09	615.31	-	-	615.31
	01/28/2003	620.40	5.16	615.24	-	-	615.24
	02/07/2003	620.40	5.05	615.35	-	-	615.35
	02/12/2003	620.40	5.02	615.38	-	-	615.38
	02/18/2003	620.40	NR	-	NR	-	-
	09/07/2004	620.40	4.92	615.48	-	-	615.48
	09/15/2004	620.40	4.60	615.80	-	-	615.80
	09/21/2004	620.40	4.76	615.64	-	-	615.64
	10/04/2004	620.40	4.94	615.46	-	-	615.46
	10/19/2004	620.40	4.40	616.00	-	-	616.00
	10/29/2004	620.40	4.73	615.67	-	-	615.67
	11/08/2004	620.40	5.03	615.37	-	-	615.37
	12/01/2004	620.40	4.79	615.61	-	-	615.61
	12/16/2004	620.40	4.50	615.90	-	-	615.90
	12/23/2004	620.40	4.40	616.00	-	-	616.00
	01/04/2005	620.40	4.15	616.25	-	-	616.25
	01/13/2005	620.40	4.36	616.04	-	-	616.04
	02/01/2005	620.40	4.58	615.82	-	-	615.82
	02/23/2005	620.40	4.49	615.91	-	-	615.91
	03/03/2005	620.40	4.58	615.82	-	-	615.82
	03/15/2005	620.40	4.48	615.92	-	-	615.92
	04/08/2005	620.40	4.02	616.38	-	-	616.38
	04/19/2005	620.40	4.15	616.25	-	-	616.25
	04/21/2005	620.40	4.17	616.23	-	-	616.23
	05/02/2005	620.40	3.91	616.49	-	-	616.49
	05/19/2005	620.40	4.23	616.17	-	-	616.17
	06/08/2005	620.40	4.26	616.14	-	-	616.14
	06/17/2005	620.40	4.23	616.17	-	-	616.17
	04/24/2006	620.40	3.45	616.95	-	-	616.95
	10/03/2006	620.40	3.90	616.50	-	-	616.50
	05/22/2007	620.40	3.55	616.85	-	-	616.85
1595-RW7	12/05/2002	623.30	9.33	613.97	-	-	613.97
	12/13/2002	623.30	9.31	613.99	-	-	613.99
	12/17/2002	623.30	9.13	614.17	-	-	614.17
	12/23/2002	623.30	9.30	614.00	-	-	614.00
	12/27/2002	623.30	9.35	613.95	-	-	613.95
	01/09/2003	623.30	9.26	614.04	-	-	614.04
	01/22/2003	623.30	9.42	613.88	-	-	613.88
	01/28/2003	623.30	9.48	613.82	-	-	613.82
	02/07/2003	623.30	9.46	613.84	-	-	613.84
	02/12/2003	623.30	9.45	613.85	-	-	613.85
	02/18/2003	623.30	9.43	613.87	-	-	613.87
	09/07/2004	623.30	9.20	614.10	-	-	614.10
	09/15/2004	623.30	8.98	614.32	-	-	614.32
	09/21/2004	623.30	9.14	614.16	-	-	614.16
	10/04/2004	623.30	9.25	614.05	-	-	614.05
	10/19/2004	623.30	8.93	614.37	-	-	614.37
	10/29/2004	623.30	9.15	614.15	-	-	614.15
	11/08/2004	623.30	9.38	613.92	-	-	613.92
	12/01/2004	623.30	9.35	613.95	-	-	613.95
	12/16/2004	623.30	9.05	614.25	-	-	614.25
	12/23/2004	623.30	8.98	614.32	-	-	614.32
	01/04/2005	623.30	8.73	614.57	-	-	614.57
	01/13/2005	623.30	8.86	614.44	-	-	614.44
	02/01/2005	623.30	8.88	614.42	-	-	614.42
	02/23/2005	623.30	8.84	614.46	-	-	614.46
	03/03/2005	623.30	8.92	614.38	-	-	614.38

**Table B-1  
Historical Well Gauging Data Summary**

**Area 1595  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	03/15/2005	623.30	8.87	614.43	-	-	614.43
	04/08/2005	623.30	8.47	614.83	-	-	614.83
	04/19/2005	623.30	8.48	614.82	-	-	614.82
	04/21/2005	623.30	8.48	614.82	-	-	614.82
	05/02/2005	623.30	8.29	615.01	-	-	615.01
	05/19/2005	623.30	8.39	614.91	-	-	614.91
	06/08/2005	623.30	8.47	614.83	-	-	614.83
	06/17/2005	623.30	8.52	614.78	-	-	614.78
	04/24/2006	623.30	7.61	615.69	-	-	615.69
	10/03/2006	623.30	8.55	614.75	-	-	614.75
	05/22/2007	623.30	9.53	613.77	-	-	613.77

NA = Not Available/Not Analyzed  
 ND = Not Detected  
 NR = Not Recorded



## **APPENDIX C**

### **Summary of Well Gauging Results and Operation and Maintenance Data**

#### **Area 1795**

**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
1795-3-2M	07/02/2009	648.22	5.23	642.99	-	-	642.99
	07/20/2009	648.22	5.51	642.71	-	-	642.71
	08/28/2009	648.22	5.97	642.25	-	-	642.25
	09/15/2009	648.22	8.42	639.80	-	-	639.80
	09/22/2009	648.22	8.35	639.87	-	-	639.87
	10/14/2009	648.22	8.79	639.43	-	-	639.43
	11/10/2009	648.22	8.68	639.54	-	-	639.54
	12/14/2009	648.22	9.36	638.86	-	-	638.86
	01/11/2010	648.22	9.66	638.56	-	-	638.56
	02/10/2010	648.22	9.07	639.15	-	-	639.15
	03/10/2010	648.22	9.21	639.01	-	-	639.01
	04/14/2010	648.22	9.02	639.20	-	-	639.20
	05/12/2010	652.54	9.91	642.63	-	-	642.63
	06/17/2010	652.54	10.25	642.29	-	-	642.29
	07/14/2010	652.54	10.49	642.05	-	-	642.05
	08/09/2010	652.54	10.28	642.26	-	-	642.26
	09/16/2010	652.54	9.98	642.56	-	-	642.56
	10/13/2010	652.54	8.78	643.76	-	-	643.76
	11/16/2010	652.54	9.77	642.77	-	-	642.77
	12/16/2010	652.54	9.54	643.00	-	-	643.00
01/13/2011	652.54	9.15	643.39	-	-	643.39	
03/14/2011	652.54	6.98	645.56	-	-	645.56	
04/12/2011	652.54	8.23	644.31	-	-	644.31	
05/19/2011	652.54	6.91	645.63	-	-	645.63	
06/20/2011	652.54	8.01	644.53	-	-	644.53	
07/13/2011	652.54	8.10	644.44	-	-	644.44	
1795-3-5M	07/02/2009	649.47	5.47	644.00	-	-	644.00
	07/20/2009	649.47	5.61	643.86	-	-	643.86
	08/28/2009	649.47	7.30	642.17	-	-	642.17
	09/15/2009	649.47	9.06	640.41	-	-	640.41
	09/22/2009	649.47	9.02	640.45	-	-	640.45
	10/14/2009	649.47	9.18	640.29	-	-	640.29
	11/10/2009	649.47	9.09	640.38	-	-	640.38
	12/14/2009	649.47	9.76	639.71	-	-	639.71
	01/11/2010	649.47	10.11	639.36	-	-	639.36
	02/10/2010	649.47	9.59	639.88	-	-	639.88
	03/10/2010	649.47	9.52	639.95	-	-	639.95
	04/14/2010	649.47	9.57	639.90	-	-	639.90
	05/12/2010	654.56	10.33	644.23	-	-	644.23
	06/17/2010	654.56	10.59	643.97	-	-	643.97
	07/14/2010	654.56	10.81	643.75	-	-	643.75
	08/09/2010	654.56	10.37	644.19	-	-	644.19
	09/16/2010	654.56	10.22	644.34	-	-	644.34
	10/13/2010	654.56	9.05	645.51	-	-	645.51
	11/16/2010	654.56	10.10	644.46	-	-	644.46
	12/16/2010	654.56	9.96	644.60	-	-	644.60
01/13/2011	654.56	9.61	644.95	-	-	644.95	
03/14/2011	654.56	7.44	647.12	-	-	647.12	
04/12/2011	654.56	8.89	645.67	-	-	645.67	
05/19/2011	654.56	7.55	647.01	-	-	647.01	
06/20/2011	654.56	8.91	645.65	-	-	645.65	
07/13/2011	654.56	8.90	645.66	-	-	645.66	
1795-3-9M	07/02/2009	651.50	5.16	646.34	-	-	646.34
	07/20/2009	651.50	5.92	645.58	-	-	645.58
	08/28/2009	651.50	6.97	644.53	-	-	644.53
	09/15/2009	651.50	8.91	642.59	-	-	642.59
	09/22/2009	651.50	8.89	642.61	-	-	642.61
	10/14/2009	651.50	9.14	642.36	-	-	642.36
	11/10/2009	651.50	9.13	642.37	-	-	642.37
	12/14/2009	651.50	9.54	641.96	-	-	641.96
01/11/2010	651.50	8.98	642.52	-	-	642.52	



**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	02/10/2010	651.50	9.39	642.11	-	-	642.11
	03/10/2010	651.50	9.61	641.89	-	-	641.89
	04/14/2010	651.50	9.56	641.94	-	-	641.94
	05/12/2010	651.50	10.17	641.33	-	-	641.33
	06/17/2010	651.50	10.47	641.03	-	-	641.03
	07/14/2010	651.50	10.74	640.76	-	-	640.76
	08/09/2010	651.50	10.54	640.96	-	-	640.96
	09/16/2010	651.50	10.57	640.93	-	-	640.93
	10/13/2010	651.50	9.19	642.31	-	-	642.31
	11/16/2010	651.50	10.37	641.13	-	-	641.13
	12/16/2010	651.50	10.01	641.49	-	-	641.49
	01/13/2011	651.50	9.59	641.91	-	-	641.91
	03/14/2011	651.50	6.96	644.54	-	-	644.54
	04/12/2011	651.50	8.78	642.72	-	-	642.72
	05/19/2011	651.50	7.31	644.19	-	-	644.19
	06/20/2011	651.50	8.94	642.56	-	-	642.56
07/13/2011	651.50	8.98	642.52	-	-	642.52	
1795-4-3M	07/02/2009	652.94	11.66	641.28	-	-	641.28
	07/20/2009	652.94	11.58	641.36	-	-	641.36
	08/28/2009	652.94	12.98	639.96	-	-	639.96
	09/22/2009	652.94	14.18	638.76	-	-	638.76
	10/14/2009	652.94	14.72	638.22	-	-	638.22
	11/10/2009	652.94	14.56	638.38	-	-	638.38
	12/14/2009	652.94	15.37	637.57	-	-	637.57
	01/11/2010	652.94	15.43	637.51	-	-	637.51
	02/10/2010	652.94	15.06	637.88	-	-	637.88
	03/10/2010	652.94	14.86	638.08	-	-	638.08
	04/14/2010	652.94	14.77	638.17	-	-	638.17
	05/12/2010	652.91	15.64	637.27	-	-	637.27
	06/17/2010	652.91	16.26	636.65	-	-	636.65
	07/14/2010	652.91	16.31	636.60	-	-	636.60
	08/09/2010	652.91	16.36	636.55	-	-	636.55
	09/16/2010	652.91	15.90	637.01	-	-	637.01
	10/13/2010	652.91	15.21	637.70	-	-	637.70
	11/16/2010	652.91	15.15	637.76	-	-	637.76
	12/16/2010	652.91	14.76	638.15	-	-	638.15
	01/13/2011	652.91	15.61	637.30	-	-	637.30
03/14/2011	652.91	14.36	638.55	-	-	638.55	
04/12/2011	652.91	13.91	639.00	-	-	639.00	
05/19/2011	652.91	12.66	640.25	-	-	640.25	
06/20/2011	652.91	13.99	638.92	-	-	638.92	
07/13/2011	652.91	14.02	638.89	-	-	638.89	
1795-4-4M	07/02/2009	648.53	6.63	641.90	-	-	641.90
	07/20/2009	648.53	6.84	641.69	-	-	641.69
	08/28/2009	648.53	8.20	640.33	-	-	640.33
	09/22/2009	648.53	9.45	639.08	-	-	639.08
	10/14/2009	648.53	9.97	638.56	-	-	638.56
	11/10/2009	648.53	9.90	638.63	-	-	638.63
	12/14/2009	648.53	16.21	632.32	-	-	632.32
	01/11/2010	648.53	16.41	632.12	-	-	632.12
	05/12/2010	652.96	10.94	642.02	-	-	642.02
	06/17/2010	652.96	11.51	641.45	-	-	641.45
	07/14/2010	652.96	16.59	636.37	-	-	636.37
	08/09/2010	652.96	16.44	636.52	-	-	636.52
	09/16/2010	652.96	17.31	635.65	-	-	635.65
	10/13/2010	652.96	16.11	636.85	-	-	636.85
	11/16/2010	652.96	16.03	636.93	-	-	636.93
	12/16/2010	652.96	15.59	637.37	-	-	637.37
	01/13/2011	652.96	15.48	637.48	-	-	637.48
	03/14/2011	652.96	14.80	638.16	-	-	638.16
	04/12/2011	652.96	15.41	637.55	-	-	637.55

**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/19/2011	652.96	12.91	640.05	-	-	640.05
	07/13/2011	652.96	14.61	638.35	-	-	638.35
1795-4-6M	07/02/2009	649.02	6.28	642.74	-	-	642.74
	07/20/2009	649.02	6.16	642.86	-	-	642.86
	08/28/2009	649.02	7.75	641.27	-	-	641.27
	09/22/2009	649.02	9.18	639.84	-	-	639.84
	10/14/2009	649.02	9.63	639.39	-	-	639.39
	11/10/2009	649.02	9.44	639.58	-	-	639.58
	12/14/2009	649.02	10.17	638.85	-	-	638.85
	01/11/2010	649.02	10.34	638.68	-	-	638.68
	02/10/2010	649.02	9.12	639.90	-	-	639.90
	03/10/2010	649.02	9.86	639.16	-	-	639.16
	04/14/2010	649.02	9.88	639.14	-	-	639.14
	05/12/2010	653.68	10.71	642.97	-	-	642.97
	06/17/2010	653.68	11.14	642.54	-	-	642.54
	07/14/2010	653.68	11.04	642.64	-	-	642.64
	08/09/2010	653.68	11.23	642.45	-	-	642.45
	09/16/2010	653.68	10.71	642.97	-	-	642.97
	10/13/2010	653.68	9.76	643.92	-	-	643.92
	11/16/2010	653.68	10.09	643.59	-	-	643.59
	12/16/2010	653.68	9.83	643.85	-	-	643.85
	01/13/2011	653.68	10.54	643.14	-	-	643.14
03/14/2011	653.68	7.67	646.01	-	-	646.01	
04/12/2011	653.68	9.12	644.56	-	-	644.56	
05/19/2011	653.68	7.59	646.09	-	-	646.09	
06/20/2011	653.68	9.00	644.68	-	-	644.68	
07/13/2011	653.68	9.10	644.58	-	-	644.58	
1795-5-4M	07/02/2009	646.50	5.49	641.01	-	-	641.01
	07/20/2009	646.50	5.55	640.95	-	-	640.95
	08/28/2009	646.50	6.45	640.05	-	-	640.05
	09/22/2009	646.50	7.81	638.69	-	-	638.69
	10/14/2009	646.50	8.23	638.27	-	-	638.27
	11/10/2009	646.50	8.33	638.17	-	-	638.17
	12/14/2009	646.50	8.91	637.59	-	-	637.59
	01/11/2010	646.50	8.84	637.66	-	-	637.66
	02/10/2010	646.50	9.11	637.39	-	-	637.39
	03/10/2010	646.50	8.42	638.08	-	-	638.08
	04/14/2010	646.50	8.08	638.42	-	-	638.42
	05/12/2010	653.93	10.13	643.80	-	-	643.80
	06/17/2010	653.93	10.69	643.24	-	-	643.24
	07/14/2010	653.93	10.49	643.44	-	-	643.44
	08/09/2010	653.93	10.78	643.15	10.78	0.00	643.15
	09/16/2010	653.93	10.60	643.33	10.45	0.15	643.48
	10/13/2010	653.93	9.27	644.66	-	-	644.66
	11/16/2010	653.93	10.16	643.77	-	-	643.77
	12/16/2010	653.93	9.19	644.74	-	-	644.74
	01/13/2011	653.93	8.82	645.11	-	-	645.11
03/14/2011	653.93	9.77	644.16	-	-	644.16	
04/12/2011	653.93	7.73	646.20	-	-	646.20	
05/19/2011	653.93	10.63	643.30	-	-	643.30	
06/20/2011	653.93	7.71	646.22	-	-	646.22	
07/13/2011	653.93	8.39	645.54	-	-	645.54	
1795-5-5M	07/02/2009	651.54	10.56	640.98	-	-	640.98
	07/20/2009	651.54	10.09	641.45	-	-	641.45
	08/28/2009	651.54	11.52	640.02	-	-	640.02
	09/22/2009	651.54	12.90	638.64	-	-	638.64
	10/14/2009	651.54	13.28	638.26	-	-	638.26
	11/10/2009	651.54	13.23	638.31	-	-	638.31
	12/14/2009	651.54	13.98	637.56	-	-	637.56
01/11/2010	651.54	13.99	637.55	-	-	637.55	

**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	02/10/2010	651.54	14.58	636.96	-	-	636.96
	03/10/2010	651.54	13.39	638.15	-	-	638.15
	04/14/2010	651.54	13.08	638.46	-	-	638.46
	05/12/2010	654.68	15.14	639.54	-	-	639.54
	06/17/2010	654.68	15.63	639.05	-	-	639.05
	07/14/2010	654.68	14.41	640.27	-	-	640.27
	08/09/2010	654.68	15.95	638.73	15.60	0.35	639.08
	09/16/2010	654.68	14.30	640.38	14.25	0.05	640.43
	10/13/2010	654.68	12.34	642.34	-	-	642.34
	11/16/2010	654.68	12.74	641.94	-	-	641.94
	12/16/2010	654.68	12.06	642.62	-	-	642.62
	01/13/2011	654.68	13.87	640.81	-	-	640.81
	03/14/2011	654.68	14.81	639.87	-	-	639.87
	04/12/2011	654.68	12.78	641.90	-	-	641.90
	05/19/2011	654.68	5.65	649.03	-	-	649.03
	06/20/2011	654.68	12.91	641.77	-	-	641.77
	07/13/2011	654.68	13.55	641.13	-	-	641.13
1795-5-10M	07/02/2009	646.13	5.48	640.65	-	-	640.65
	07/20/2009	646.13	5.14	640.99	-	-	640.99
	08/28/2009	646.13	6.40	639.73	-	-	639.73
	09/22/2009	646.13	7.95	638.18	-	-	638.18
	10/14/2009	646.13	8.14	637.99	-	-	637.99
	11/10/2009	646.13	8.18	637.95	-	-	637.95
	12/14/2009	646.13	8.76	637.37	-	-	637.37
	01/11/2010	646.13	8.83	637.30	-	-	637.30
	02/10/2010	646.13	8.49	637.64	-	-	637.64
	03/10/2010	646.13	8.49	637.64	-	-	637.64
	04/14/2010	646.13	8.13	638.00	-	-	638.00
	05/12/2010	656.61	10.06	646.55	-	-	646.55
	06/17/2010	656.61	10.46	646.15	-	-	646.15
	07/14/2010	656.61	9.30	647.31	-	-	647.31
	08/09/2010	656.61	10.44	646.17	-	-	646.17
	09/16/2010	656.61	10.25	646.36	-	-	646.36
	10/13/2010	656.61	7.14	649.47	-	-	649.47
	11/16/2010	656.61	8.82	647.79	-	-	647.79
	12/16/2010	656.61	8.26	648.35	-	-	648.35
	01/13/2011	656.61	7.78	648.83	-	-	648.83
	03/14/2011	656.61	7.53	649.08	-	-	649.08
	04/12/2011	656.61	7.83	648.78	-	-	648.78
	05/19/2011	656.61	5.43	651.18	-	-	651.18
	06/20/2011	656.61	7.93	648.68	-	-	648.68
	07/13/2011	656.61	8.46	648.15	-	-	648.15
1795-001	09/15/2004	NR	10.27	-	-	-	-
	04/19/2005	NR	10.28	-	-	-	-
	04/25/2006	NR	8.83	-	-	-	-
	10/05/2006	NR	11.14	-	-	-	-
	05/23/2007	NR	NR	-	NR	-	-
1795-003	09/15/2004	NR	7.45	-	-	-	-
	04/19/2005	NR	6.40	-	-	-	-
	04/25/2006	NR	4.76	-	-	-	-
	10/05/2006	NR	7.57	-	-	-	-
	05/23/2007	NR	5.17	-	-	-	-
1795-MWS1	09/15/2004	NR	21.02	-	-	-	-
	04/19/2005	NR	19.60	-	-	-	-
	04/25/2006	NR	17.91	-	-	-	-
	10/05/2006	NR	21.40	-	-	-	-
	05/23/2007	NR	17.29	-	-	-	-

**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
1795-MWS2	12/02/2002	642.23	15.15	627.08	-	-	627.08
	01/06/2003	642.23	14.84	627.39	-	-	627.39
	02/07/2003	642.23	14.88	627.35	-	-	627.35
	09/02/2004	642.23	13.48	628.75	-	-	628.75
	09/15/2004	642.23	13.18	629.05	-	-	629.05
	10/04/2004	642.23	13.62	628.61	-	-	628.61
	11/01/2004	642.23	14.14	628.09	-	-	628.09
	12/03/2004	642.23	14.47	627.76	-	-	627.76
	01/04/2005	642.23	13.00	629.23	-	-	629.23
	02/03/2005	642.23	12.23	630.00	-	-	630.00
	03/01/2005	642.23	12.70	629.53	-	-	629.53
	04/07/2005	642.23	11.55	630.68	-	-	630.68
	04/19/2005	642.23	11.13	631.10	-	-	631.10
	05/03/2005	642.23	11.43	630.80	-	-	630.80
	06/01/2005	642.23	11.83	630.40	-	-	630.40
	07/05/2005	642.23	12.75	629.48	-	-	629.48
	08/01/2005	642.23	13.29	628.94	-	-	628.94
	09/07/2005	642.23	13.93	628.30	-	-	628.30
	10/05/2005	642.23	13.72	628.51	-	-	628.51
	11/08/2005	642.23	12.26	629.97	-	-	629.97
	12/09/2005	642.23	10.72	631.51	-	-	631.51
	01/06/2006	642.23	11.26	630.97	-	-	630.97
	02/02/2006	642.23	9.96	632.27	-	-	632.27
	03/21/2006	642.23	9.30	632.93	-	-	632.93
	04/06/2006	642.23	9.76	632.47	-	-	632.47
	04/25/2006	642.23	10.17	632.06	-	-	632.06
	05/11/2006	642.23	10.34	631.89	-	-	631.89
	06/12/2006	642.23	11.20	631.03	-	-	631.03
	07/07/2006	642.23	11.65	630.58	-	-	630.58
	10/05/2006	642.23	13.95	628.28	-	-	628.28
05/23/2007	642.23	9.82	632.41	-	-	632.41	
1795-MWS3	12/02/2002	644.96	16.10	628.86	-	-	628.86
	01/06/2003	644.96	15.78	629.18	-	-	629.18
	02/07/2003	644.96	15.75	629.21	-	-	629.21
	09/02/2004	644.96	14.47	630.49	-	-	630.49
	09/15/2004	644.96	14.45	630.51	-	-	630.51
	10/04/2004	644.96	14.67	630.29	-	-	630.29
	11/01/2004	644.96	15.09	629.87	-	-	629.87
	12/03/2004	644.96	15.42	629.54	-	-	629.54
	01/04/2005	644.96	14.02	630.94	-	-	630.94
	02/03/2005	644.96	13.14	631.82	-	-	631.82
	03/01/2005	644.96	13.64	631.32	-	-	631.32
	04/07/2005	644.96	12.64	632.32	-	-	632.32
	04/19/2005	644.96	12.07	632.89	-	-	632.89
	05/03/2005	644.96	12.35	632.61	-	-	632.61
	06/01/2005	644.96	12.78	632.18	-	-	632.18
	07/05/2005	644.96	13.73	631.23	-	-	631.23
	08/01/2005	644.96	14.32	630.64	-	-	630.64
	09/07/2005	644.96	15.05	629.91	-	-	629.91
	10/05/2005	644.96	14.77	630.19	-	-	630.19
	11/08/2005	644.96	13.23	631.73	-	-	631.73
	12/09/2005	644.96	11.66	633.30	-	-	633.30
	01/06/2006	644.96	12.18	632.78	-	-	632.78
	02/02/2006	644.96	10.88	634.08	-	-	634.08
	03/21/2006	644.96	10.25	634.71	-	-	634.71
	04/06/2006	644.96	10.72	634.24	-	-	634.24
	04/25/2006	644.96	11.20	633.76	-	-	633.76
	05/11/2006	644.96	11.33	633.63	-	-	633.63
	06/12/2006	644.96	12.16	632.80	-	-	632.80
	07/07/2006	644.96	12.59	632.37	-	-	632.37
	10/05/2006	644.96	14.94	630.02	-	-	630.02
05/23/2007	644.96	10.75	634.21	-	-	634.21	

**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
1795-MWS4	12/02/2002	646.59	15.00	631.59	-	-	631.59
	01/06/2003	646.59	14.52	632.07	-	-	632.07
	02/07/2003	646.59	14.58	632.01	-	-	632.01
	09/02/2004	646.59	13.07	633.52	-	-	633.52
	09/15/2004	646.59	12.86	633.73	-	-	633.73
	10/04/2004	646.59	13.14	633.45	-	-	633.45
	11/01/2004	646.59	13.59	633.00	-	-	633.00
	12/03/2004	646.59	13.82	632.77	-	-	632.77
	01/04/2005	646.59	12.10	634.49	-	-	634.49
	02/03/2005	646.59	11.35	635.24	-	-	635.24
	03/01/2005	646.59	11.93	634.66	-	-	634.66
	04/07/2005	646.59	10.50	636.09	-	-	636.09
	04/19/2005	646.59	10.29	636.30	-	-	636.30
	05/03/2005	646.59	10.73	635.86	-	-	635.86
	06/01/2005	646.59	11.23	635.36	-	-	635.36
	07/05/2005	646.59	12.37	634.22	-	-	634.22
	08/01/2005	646.59	13.01	633.58	-	-	633.58
	09/07/2005	646.59	13.72	632.87	-	-	632.87
	10/05/2005	646.59	13.10	633.49	-	-	633.49
	11/08/2005	646.59	11.28	635.31	-	-	635.31
	12/09/2005	646.59	9.67	636.92	-	-	636.92
	01/06/2006	646.59	10.42	636.17	-	-	636.17
	02/02/2006	646.59	8.86	637.73	-	-	637.73
	03/21/2006	646.59	8.28	638.31	-	-	638.31
	04/06/2006	646.59	8.90	637.69	-	-	637.69
	04/25/2006	646.59	9.31	637.28	-	-	637.28
	05/11/2006	646.59	9.59	637.00	-	-	637.00
	06/12/2006	646.59	10.55	636.04	-	-	636.04
07/07/2006	646.59	10.98	635.61	-	-	635.61	
10/05/2006	646.59	13.53	633.06	-	-	633.06	
05/23/2007	646.59	9.13	637.46	-	-	637.46	
1795-MWS5	12/02/2002	654.78	19.18	635.60	-	-	635.60
	01/06/2003	654.78	18.56	636.22	-	-	636.22
	02/07/2003	654.78	18.82	635.96	-	-	635.96
	09/02/2004	654.78	17.55	637.23	-	-	637.23
	09/15/2004	654.78	17.15	637.63	-	-	637.63
	10/04/2004	654.78	17.62	637.16	-	-	637.16
	11/01/2004	654.78	18.03	636.75	-	-	636.75
	12/03/2004	654.78	17.97	636.81	-	-	636.81
	01/04/2005	654.78	16.28	638.50	-	-	638.50
	02/03/2005	654.78	15.92	638.86	-	-	638.86
	03/01/2005	654.78	16.31	638.47	-	-	638.47
	04/07/2005	654.78	15.04	639.74	-	-	639.74
	04/19/2005	654.78	15.14	639.64	-	-	639.64
	05/03/2005	654.78	15.46	639.32	-	-	639.32
	06/01/2005	654.78	16.04	638.74	-	-	638.74
	07/05/2005	654.78	17.05	637.73	-	-	637.73
	08/01/2005	654.78	17.50	637.28	-	-	637.28
	09/07/2005	654.78	17.90	636.88	-	-	636.88
	10/05/2005	654.78	17.22	637.56	-	-	637.56
	11/08/2005	654.78	15.61	639.17	-	-	639.17
	12/09/2005	654.78	14.05	640.73	-	-	640.73
	01/06/2006	654.78	14.91	639.87	-	-	639.87
	02/02/2006	654.78	13.28	641.50	-	-	641.50
	03/21/2006	654.78	13.11	641.67	-	-	641.67
	04/06/2006	654.78	13.84	640.94	-	-	640.94
	04/25/2006	654.78	14.02	640.76	-	-	640.76
	05/11/2006	654.78	14.44	640.34	-	-	640.34
	06/12/2006	654.78	15.13	639.65	-	-	639.65
07/07/2006	654.78	15.33	639.45	-	-	639.45	
10/05/2006	654.78	17.54	637.24	-	-	637.24	
05/23/2007	654.78	14.04	640.74	-	-	640.74	

**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
1795-MW6	09/15/2004	NR	6.81	-	-	-	-
	04/19/2005	NR	6.06	-	-	-	-
	04/25/2006	NR	4.34	-	-	-	-
	10/05/2006	NR	6.45	-	-	-	-
	05/23/2007	NR	4.92	-	-	-	-
1795-MWS6	12/02/2002	651.67	12.97	638.70	-	-	638.70
	01/06/2003	651.67	12.25	639.42	-	-	639.42
	02/07/2003	651.67	12.71	638.96	-	-	638.96
	09/02/2004	651.67	11.39	640.28	-	-	640.28
	09/15/2004	651.67	10.92	640.75	-	-	640.75
	10/04/2004	651.67	11.60	640.07	-	-	640.07
	11/01/2004	651.67	12.05	639.62	-	-	639.62
	12/03/2004	651.67	11.78	639.89	-	-	639.89
	01/04/2005	651.67	10.29	641.38	-	-	641.38
	02/03/2005	651.67	10.34	641.33	-	-	641.33
	03/01/2005	651.67	10.58	641.09	-	-	641.09
	04/07/2005	651.67	9.46	642.21	-	-	642.21
	04/19/2005	651.67	10.70	640.97	-	-	640.97
	05/03/2005	651.67	9.87	641.80	-	-	641.80
	06/01/2005	651.67	10.51	641.16	-	-	641.16
	07/05/2005	651.67	11.30	640.37	-	-	640.37
	08/01/2005	651.67	11.52	640.15	-	-	640.15
	09/07/2005	651.67	11.59	640.08	-	-	640.08
	10/05/2005	651.67	10.93	640.74	-	-	640.74
	11/08/2005	651.67	9.73	641.94	-	-	641.94
	12/09/2005	651.67	5.83	645.84	-	-	645.84
	01/06/2006	651.67	9.03	642.64	-	-	642.64
	02/02/2006	651.67	7.64	644.03	-	-	644.03
	03/21/2006	651.67	7.86	643.81	-	-	643.81
	04/06/2006	651.67	8.42	643.25	-	-	643.25
	04/25/2006	651.67	8.42	643.25	-	-	643.25
	05/11/2006	651.67	9.00	642.67	-	-	642.67
	06/12/2006	651.67	9.51	642.16	-	-	642.16
07/07/2006	651.67	9.68	641.99	-	-	641.99	
10/05/2006	651.67	11.35	640.32	-	-	640.32	
05/23/2007	651.67	8.61	643.06	-	-	643.06	
1795-MWS7	12/02/2002	653.24	11.65	641.59	-	-	641.59
	01/06/2003	653.24	10.98	642.26	-	-	642.26
	02/07/2003	653.24	11.56	641.68	-	-	641.68
	09/02/2004	653.24	9.99	643.25	-	-	643.25
	09/15/2004	653.24	9.43	643.81	-	-	643.81
	10/04/2004	653.24	10.38	642.86	-	-	642.86
	11/01/2004	653.24	10.89	642.35	-	-	642.35
	12/03/2004	653.24	9.93	643.31	-	-	643.31
	01/04/2005	653.24	8.73	644.51	-	-	644.51
	02/03/2005	653.24	9.28	643.96	-	-	643.96
	03/01/2005	653.24	9.05	644.19	-	-	644.19
	04/07/2005	653.24	8.45	644.79	-	-	644.79
	04/19/2005	653.24	8.81	644.43	-	-	644.43
	05/03/2005	653.24	8.77	644.47	-	-	644.47
	06/01/2005	653.24	9.50	643.74	-	-	643.74
	07/05/2005	653.24	10.27	642.97	-	-	642.97
	08/01/2005	653.24	10.32	642.92	-	-	642.92
	09/07/2005	653.24	10.14	643.10	-	-	643.10
	10/05/2005	653.24	9.50	643.74	-	-	643.74
	11/08/2005	653.24	8.57	644.67	-	-	644.67
	12/09/2005	653.24	7.58	645.66	-	-	645.66
	01/06/2006	653.24	7.84	645.40	-	-	645.40
	02/02/2006	653.24	6.63	646.61	-	-	646.61
	03/21/2006	653.24	6.99	646.25	-	-	646.25
04/06/2006	653.24	7.35	645.89	-	-	645.89	

**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/25/2006	653.24	7.31	645.93	-	-	645.93
	05/11/2006	653.24	8.01	645.23	-	-	645.23
	06/12/2006	653.24	8.32	644.92	-	-	644.92
	07/07/2006	653.24	8.58	644.66	-	-	644.66
	10/05/2006	653.24	9.92	643.32	-	-	643.32
	05/23/2007	653.24	7.65	645.59	-	-	645.59
1795-MWS10	09/15/2004	NR	13.38	-	-	-	-
	04/19/2005	NR	12.46	-	-	-	-
	04/25/2006	NR	12.14	-	-	-	-
	10/05/2006	NR	13.61	-	-	-	-
	05/23/2007	NR	11.92	-	-	-	-
1795-MWS11	12/02/2002	648.91	16.19	632.72	-	-	632.72
	01/06/2003	648.91	15.64	633.27	-	-	633.27
	02/07/2003	648.91	15.77	633.14	-	-	633.14
	09/02/2004	648.91	14.79	634.12	-	-	634.12
	09/15/2004	648.91	14.48	634.43	-	-	634.43
	10/04/2004	648.91	14.90	634.01	-	-	634.01
	11/01/2004	648.91	15.26	633.65	-	-	633.65
	12/03/2004	648.91	14.47	634.44	-	-	634.44
	01/04/2005	648.91	13.95	634.96	-	-	634.96
	02/03/2005	648.91	13.45	635.46	-	-	635.46
	03/01/2005	648.91	13.90	635.01	-	-	635.01
	04/07/2005	648.91	12.59	636.32	-	-	636.32
	04/19/2005	648.91	12.54	636.37	-	-	636.37
	05/03/2005	648.91	12.91	636.00	-	-	636.00
	06/01/2005	648.91	13.39	635.52	-	-	635.52
	07/05/2005	648.91	14.27	634.64	-	-	634.64
	08/01/2005	648.91	14.68	634.23	-	-	634.23
	09/07/2005	648.91	15.15	633.76	-	-	633.76
	10/05/2005	648.91	14.64	634.27	-	-	634.27
	11/08/2005	648.91	13.20	635.71	-	-	635.71
	12/09/2005	648.91	11.78	637.13	-	-	637.13
	01/06/2006	648.91	12.54	636.37	-	-	636.37
	02/02/2006	648.91	11.17	637.74	-	-	637.74
	03/21/2006	648.91	10.84	638.07	-	-	638.07
	04/06/2006	648.91	11.50	637.41	-	-	637.41
	04/25/2006	648.91	11.81	637.10	-	-	637.10
	05/11/2006	648.91	12.02	636.89	-	-	636.89
	06/12/2006	648.91	12.74	636.17	-	-	636.17
	07/07/2006	648.91	12.97	635.94	-	-	635.94
	10/05/2006	648.91	14.90	634.01	-	-	634.01
	05/23/2007	648.91	11.51	637.40	-	-	637.40
1795-MWSI12	09/15/2004	NR	14.44	-	-	-	-
	04/19/2005	NR	12.09	-	-	-	-
	04/25/2006	NR	11.22	-	-	-	-
	10/05/2006	NR	14.94	-	-	-	-
	05/23/2007	NR	10.78	-	-	-	-
1795-MWD13	12/02/2002	644.91	16.06	628.85	-	-	628.85
	01/06/2003	644.91	15.73	629.18	-	-	629.18
	02/07/2003	644.91	15.70	629.21	-	-	629.21
	09/02/2004	644.91	14.42	630.49	-	-	630.49
	09/15/2004	644.91	14.37	630.54	-	-	630.54
	10/04/2004	644.91	14.65	630.26	-	-	630.26
	11/01/2004	644.91	15.03	629.88	-	-	629.88
	12/03/2004	644.91	15.35	629.56	-	-	629.56
	01/04/2005	644.91	13.94	630.97	-	-	630.97
	02/03/2005	644.91	13.08	631.83	-	-	631.83
	03/01/2005	644.91	13.57	631.34	-	-	631.34
	04/07/2005	644.91	12.54	632.37	-	-	632.37

**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/19/2005	644.91	12.01	632.90	-	-	632.90
	05/03/2005	644.91	12.31	632.60	-	-	632.60
	06/01/2005	644.91	12.75	632.16	-	-	632.16
	07/05/2005	644.91	13.68	631.23	-	-	631.23
	08/01/2005	644.91	14.26	630.65	-	-	630.65
	09/07/2005	644.91	14.99	629.92	-	-	629.92
	10/05/2005	644.91	14.71	630.20	-	-	630.20
	11/08/2005	644.91	13.16	631.75	-	-	631.75
	12/09/2005	644.91	11.61	633.30	-	-	633.30
	01/06/2006	644.91	12.13	632.78	-	-	632.78
	02/02/2006	644.91	10.83	634.08	-	-	634.08
	03/21/2006	644.91	10.20	634.71	-	-	634.71
	04/06/2006	644.91	10.67	634.24	-	-	634.24
	04/25/2006	644.91	11.15	633.76	-	-	633.76
	05/11/2006	644.91	11.29	633.62	-	-	633.62
	06/12/2006	644.91	12.12	632.79	-	-	632.79
	07/07/2006	644.91	12.55	632.36	-	-	632.36
	10/05/2006	644.91	14.84	630.07	-	-	630.07
	05/23/2007	644.91	10.70	634.21	-	-	634.21
1795-MWS14	09/15/2004	NR	9.71	-	-	-	-
	04/19/2005	NR	9.18	-	-	-	-
	04/25/2006	NR	9.52	-	-	-	-
	10/05/2006	NR	10.19	-	-	-	-
	05/23/2007	NR	8.61	-	-	-	-
1795-MWS15	12/02/2002	648.23	NR	-	NR	-	-
	01/06/2003	648.23	NR	-	NR	-	-
	02/07/2003	648.23	NR	-	NR	-	-
	09/15/2004	648.23	9.94	638.29	-	-	638.29
	04/19/2005	648.23	8.99	639.24	-	-	639.24
	04/25/2006	648.23	7.91	640.32	-	-	640.32
	10/05/2006	648.23	10.29	637.94	-	-	637.94
	05/23/2007	648.23	8.19	640.04	-	-	640.04
1795-MWS16	09/15/2004	NR	19.19	-	-	-	-
	04/19/2005	NR	16.72	-	-	-	-
	04/25/2006	NR	15.95	-	-	-	-
	10/05/2006	NR	19.46	-	-	-	-
	05/23/2007	NR	15.32	-	-	-	-
1795-MWS17	09/15/2004	NR	25.04	-	-	-	-
	04/19/2005	NR	23.05	-	-	-	-
	04/25/2006	NR	22.30	-	-	-	-
	10/05/2006	NR	25.28	-	-	-	-
	05/23/2007	NR	21.57	-	-	-	-
1795-MWS18	09/15/2004	NR	18.01	-	-	-	-
	04/19/2005	NR	16.23	-	-	-	-
	04/25/2006	NR	16.11	-	-	-	-
	10/05/2006	NR	18.19	-	-	-	-
	05/23/2007	NR	15.56	-	-	-	-
1795-MWS19	09/15/2004	NR	13.75	-	-	-	-
	04/19/2005	NR	11.83	-	-	-	-
	04/25/2006	NR	10.72	-	-	-	-
	10/05/2006	NR	14.62	-	-	-	-
	05/23/2007	NR	10.55	-	-	-	-
1795-MWD20	09/15/2004	NR	20.90	-	-	-	-
	04/19/2005	NR	19.90	-	-	-	-
	04/25/2006	NR	17.78	-	-	-	-
	10/05/2006	NR	21.30	-	-	-	-



**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/23/2007	NR	17.17	-	-	-	-
1795-MWS21	09/15/2004	NR	15.28	-	-	-	-
	04/19/2005	NR	13.46	-	-	-	-
	04/25/2006	NR	12.34	-	-	-	-
	10/05/2006	NR	16.14	-	-	-	-
	05/23/2007	NR	11.64	-	-	-	-
1795-MW37	09/15/2004	NR	7.31	-	-	-	-
	04/19/2005	NR	6.65	-	-	-	-
	04/25/2006	NR	5.03	-	-	-	-
	10/05/2006	NR	7.68	-	-	-	-
	05/23/2007	NR	5.37	-	-	-	-
1795-MW38	09/15/2004	NR	6.85	-	-	-	-
	04/19/2005	NR	6.45	-	-	-	-
	04/25/2006	NR	4.93	-	-	-	-
	10/05/2006	NR	7.32	-	-	-	-
	05/23/2007	NR	5.12	-	-	-	-
1795-PZ01	12/02/2002	649.60	9.73	639.87	-	-	639.87
	01/06/2003	649.60	9.14	640.46	-	-	640.46
	02/07/2003	649.60	9.58	640.02	-	-	640.02
	09/02/2004	649.60	8.15	641.45	-	-	641.45
	09/15/2004	649.60	7.70	641.90	-	-	641.90
	10/04/2004	649.60	8.52	641.08	-	-	641.08
	11/01/2004	649.60	8.97	640.63	-	-	640.63
	12/03/2004	649.60	8.38	641.22	-	-	641.22
	01/04/2005	649.60	7.11	642.49	-	-	642.49
	02/03/2005	649.60	7.39	642.21	-	-	642.21
	03/01/2005	649.60	7.60	642.00	-	-	642.00
	04/07/2005	649.60	6.55	643.05	-	-	643.05
	04/19/2005	649.60	6.81	642.79	-	-	642.79
	05/03/2005	649.60	6.86	642.74	-	-	642.74
	06/01/2005	649.60	7.55	642.05	-	-	642.05
	07/05/2005	649.60	8.27	641.33	-	-	641.33
	08/01/2005	649.60	8.41	641.19	-	-	641.19
	09/07/2005	649.60	8.37	641.23	-	-	641.23
	10/05/2005	649.60	7.76	641.84	-	-	641.84
	11/08/2005	649.60	6.62	642.98	-	-	642.98
	12/09/2005	649.60	5.62	643.98	-	-	643.98
	01/06/2006	649.60	5.83	643.77	-	-	643.77
	02/02/2006	649.60	4.69	644.91	-	-	644.91
	03/21/2006	649.60	5.00	644.60	-	-	644.60
	04/06/2006	649.60	5.44	644.16	-	-	644.16
	04/25/2006	649.60	5.40	644.20	-	-	644.20
	05/11/2006	649.60	6.08	643.52	-	-	643.52
06/12/2006	649.60	6.48	643.12	-	-	643.12	
07/07/2006	649.60	6.68	642.92	-	-	642.92	
10/05/2006	649.60	7.98	641.62	-	-	641.62	
05/23/2007	649.60	5.68	643.92	-	-	643.92	
1795-PZ02	12/02/2002	648.88	10.77	638.11	-	-	638.11
	01/06/2003	648.88	10.20	638.68	-	-	638.68
	02/07/2003	648.88	10.61	638.27	-	-	638.27
	09/02/2004	648.88	9.35	639.53	-	-	639.53
	09/15/2004	648.88	9.88	639.00	-	-	639.00
	10/04/2004	648.88	9.68	639.20	-	-	639.20
	11/01/2004	648.88	10.13	638.75	-	-	638.75
	12/03/2004	648.88	9.70	639.18	-	-	639.18
	01/04/2005	648.88	8.50	640.38	-	-	640.38
	02/03/2005	648.88	8.57	640.31	-	-	640.31
	03/01/2005	648.88	8.81	640.07	-	-	640.07

**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/07/2005	648.88	7.32	641.56	-	-	641.56
	04/19/2005	648.88	7.87	641.01	-	-	641.01
	05/03/2005	648.88	8.03	640.85	-	-	640.85
	06/01/2005	648.88	8.67	640.21	-	-	640.21
	07/05/2005	648.88	9.38	639.50	-	-	639.50
	08/01/2005	648.88	9.53	639.35	-	-	639.35
	09/07/2005	648.88	9.53	639.35	-	-	639.35
	10/05/2005	648.88	8.93	639.95	-	-	639.95
	11/08/2005	648.88	7.82	641.06	-	-	641.06
	12/09/2005	648.88	6.77	642.11	-	-	642.11
	01/06/2006	648.88	7.19	641.69	-	-	641.69
	02/02/2006	648.88	5.97	642.91	-	-	642.91
	03/21/2006	648.88	6.23	642.65	-	-	642.65
	04/06/2006	648.88	6.72	642.16	-	-	642.16
	04/25/2006	648.88	6.70	642.18	-	-	642.18
	05/11/2006	648.88	7.30	641.58	-	-	641.58
	06/12/2006	648.88	7.69	641.19	-	-	641.19
	07/07/2006	648.88	7.86	641.02	-	-	641.02
	10/05/2006	648.88	9.29	639.59	-	-	639.59
05/23/2007	648.88	6.90	641.98	-	-	641.98	
1795-PZ03	12/02/2002	653.33	17.68	635.65	-	-	635.65
	01/06/2003	653.33	16.86	636.47	-	-	636.47
	02/07/2003	653.33	17.17	636.16	-	-	636.16
	09/02/2004	653.33	15.92	637.41	-	-	637.41
	09/15/2004	653.33	15.49	637.84	-	-	637.84
	10/04/2004	653.33	16.03	637.30	-	-	637.30
	11/01/2004	653.33	16.44	636.89	-	-	636.89
	12/03/2004	653.33	16.30	637.03	-	-	637.03
	01/04/2005	653.33	14.72	638.61	-	-	638.61
	02/03/2005	653.33	14.45	638.88	-	-	638.88
	03/01/2005	653.33	14.81	638.52	-	-	638.52
	04/07/2005	653.33	13.56	639.77	-	-	639.77
	04/19/2005	653.33	13.71	639.62	-	-	639.62
	05/03/2005	653.33	14.01	639.32	-	-	639.32
	06/01/2005	653.33	14.58	638.75	-	-	638.75
	07/05/2005	653.33	15.52	637.81	-	-	637.81
	08/01/2005	653.33	15.89	637.44	-	-	637.44
	09/07/2005	653.33	16.21	637.12	-	-	637.12
	10/05/2005	653.33	15.55	637.78	-	-	637.78
	11/08/2005	653.33	14.03	639.30	-	-	639.30
	12/09/2005	653.33	12.58	640.75	-	-	640.75
	01/06/2006	653.33	13.38	639.95	-	-	639.95
	02/02/2006	653.33	11.81	641.52	-	-	641.52
	03/21/2006	653.33	11.74	641.59	-	-	641.59
	04/06/2006	653.33	12.46	640.87	-	-	640.87
	04/25/2006	653.33	12.59	640.74	-	-	640.74
	05/11/2006	653.33	13.03	640.30	-	-	640.30
06/12/2006	653.33	13.66	639.67	-	-	639.67	
07/07/2006	653.33	13.82	639.51	-	-	639.51	
10/05/2006	653.33	15.87	637.46	-	-	637.46	
05/23/2007	653.33	12.64	640.69	-	-	640.69	
1795-PZ04	12/02/2002	647.23	13.02	634.21	-	-	634.21
	01/06/2003	647.23	12.48	634.75	-	-	634.75
	02/07/2003	647.23	12.68	634.55	-	-	634.55
	09/02/2004	647.23	11.52	635.71	-	-	635.71
	09/15/2004	647.23	11.12	636.11	-	-	636.11
	10/04/2004	647.23	11.60	635.63	-	-	635.63
	11/01/2004	647.23	11.95	635.28	-	-	635.28
	12/03/2004	647.23	11.82	635.41	-	-	635.41
	01/04/2005	647.23	10.38	636.85	-	-	636.85
02/03/2005	647.23	9.89	637.34	-	-	637.34	

**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	03/01/2005	647.23	10.40	636.83	-	-	636.83
	04/07/2005	647.23	8.87	638.36	-	-	638.36
	04/19/2005	647.23	9.00	638.23	-	-	638.23
	05/03/2005	647.23	9.33	637.90	-	-	637.90
	06/01/2005	647.23	9.96	637.27	-	-	637.27
	07/05/2005	647.23	11.01	636.22	-	-	636.22
	08/01/2005	647.23	11.44	635.79	-	-	635.79
	09/07/2005	647.23	11.91	635.32	-	-	635.32
	10/05/2005	647.23	11.29	635.94	-	-	635.94
	11/08/2005	647.23	9.64	637.59	-	-	637.59
	12/09/2005	647.23	8.13	639.10	-	-	639.10
	01/06/2006	647.23	8.89	638.34	-	-	638.34
	02/02/2006	647.23	7.34	639.89	-	-	639.89
	03/21/2006	647.23	7.09	640.14	-	-	640.14
	04/06/2006	647.23	7.73	639.50	-	-	639.50
	04/25/2006	647.23	7.89	639.34	-	-	639.34
	05/11/2006	647.23	8.36	638.87	-	-	638.87
	06/12/2006	647.23	9.00	638.23	-	-	638.23
	07/07/2006	647.23	9.32	637.91	-	-	637.91
	10/05/2006	647.23	11.47	635.76	-	-	635.76
	05/23/2007	647.23	7.92	639.31	-	-	639.31
1795-PZ05	12/02/2002	650.44	13.02	637.42	-	-	637.42
	01/06/2003	650.44	12.35	638.09	-	-	638.09
	02/07/2003	650.44	12.76	637.68	-	-	637.68
	09/02/2004	650.44	11.53	638.91	-	-	638.91
	09/15/2004	650.44	11.02	639.42	-	-	639.42
	10/04/2004	650.44	11.68	638.76	-	-	638.76
	11/01/2004	650.44	12.11	638.33	-	-	638.33
	12/03/2004	650.44	11.89	638.55	-	-	638.55
	01/04/2005	650.44	10.40	640.04	-	-	640.04
	02/03/2005	650.44	10.30	640.14	-	-	640.14
	03/01/2005	650.44	10.61	639.83	-	-	639.83
	04/07/2005	650.44	9.39	641.05	-	-	641.05
	04/19/2005	650.44	9.64	640.80	-	-	640.80
	05/03/2005	650.44	9.82	640.62	-	-	640.62
	06/01/2005	650.44	10.44	640.00	-	-	640.00
	07/05/2005	650.44	11.28	639.16	-	-	639.16
	08/01/2005	650.44	11.56	638.88	-	-	638.88
	09/07/2005	650.44	11.72	638.72	-	-	638.72
	10/05/2005	650.44	11.08	639.36	-	-	639.36
	11/08/2005	650.44	9.74	640.70	-	-	640.70
	12/09/2005	650.44	8.48	641.96	-	-	641.96
	01/06/2006	650.44	9.11	641.33	-	-	641.33
	02/02/2006	650.44	7.66	642.78	-	-	642.78
	03/21/2006	650.44	7.77	642.67	-	-	642.67
	04/06/2006	650.44	8.40	642.04	-	-	642.04
	04/25/2006	650.44	8.45	641.99	-	-	641.99
	05/11/2006	650.44	8.96	641.48	-	-	641.48
	06/12/2006	650.44	9.47	640.97	-	-	640.97
	07/07/2006	650.44	9.65	640.79	-	-	640.79
	10/05/2006	650.44	11.45	638.99	-	-	638.99
	05/23/2007	650.44	8.56	641.88	-	-	641.88
1795-PZ06	12/02/2002	651.58	13.90	637.68	-	-	637.68
	01/06/2003	651.58	13.27	638.31	-	-	638.31
	02/07/2003	651.58	13.63	637.95	-	-	637.95
	09/02/2004	651.58	12.30	639.28	-	-	639.28
	09/15/2004	651.58	11.83	639.75	-	-	639.75
	10/04/2004	651.58	12.45	639.13	-	-	639.13
	11/01/2004	651.58	12.88	638.70	-	-	638.70
	12/03/2004	651.58	12.64	638.94	-	-	638.94

**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/04/2005	651.58	10.94	640.64	-	-	640.64
	02/03/2005	651.58	10.90	640.68	-	-	640.68
	03/01/2005	651.58	11.23	640.35	-	-	640.35
	04/07/2005	651.58	10.06	641.52	-	-	641.52
	04/19/2005	651.58	10.25	641.33	-	-	641.33
	05/03/2005	651.58	10.46	641.12	-	-	641.12
	06/01/2005	651.58	11.08	640.50	-	-	640.50
	07/05/2005	651.58	12.01	639.57	-	-	639.57
	08/01/2005	651.58	12.35	639.23	-	-	639.23
	09/07/2005	651.58	12.54	639.04	-	-	639.04
	10/05/2005	651.58	11.85	639.73	-	-	639.73
	11/08/2005	651.58	10.45	641.13	-	-	641.13
	12/09/2005	651.58	9.10	642.48	-	-	642.48
	01/06/2006	651.58	9.77	641.81	-	-	641.81
	02/02/2006	651.58	8.20	643.38	-	-	643.38
	03/21/2006	651.58	8.29	643.29	-	-	643.29
	04/06/2006	651.58	8.91	642.67	-	-	642.67
	04/25/2006	651.58	8.99	642.59	-	-	642.59
	05/11/2006	651.58	9.53	642.05	-	-	642.05
	06/12/2006	651.58	10.06	641.52	-	-	641.52
	07/07/2006	651.58	10.28	641.30	-	-	641.30
	10/05/2006	651.58	12.26	639.32	-	-	639.32
	05/23/2007	651.58	9.13	642.45	-	-	642.45
1795-PZ07	12/02/2002	650.10	9.48	640.62	-	-	640.62
	01/06/2003	650.10	8.83	641.27	-	-	641.27
	02/07/2003	650.10	9.36	640.74	-	-	640.74
	09/02/2004	650.10	7.88	642.22	-	-	642.22
	09/15/2004	650.10	7.29	642.81	-	-	642.81
	10/04/2004	650.10	8.21	641.89	-	-	641.89
	11/01/2004	650.10	8.68	641.42	-	-	641.42
	12/03/2004	650.10	7.80	642.30	-	-	642.30
	01/04/2005	650.10	6.36	643.74	-	-	643.74
	02/03/2005	650.10	6.89	643.21	-	-	643.21
	03/01/2005	650.10	7.13	642.97	-	-	642.97
	04/07/2005	650.10	6.11	643.99	-	-	643.99
	04/19/2005	650.10	6.42	643.68	-	-	643.68
	05/03/2005	650.10	6.39	643.71	-	-	643.71
	06/01/2005	650.10	7.17	642.93	-	-	642.93
	07/05/2005	650.10	8.01	642.09	-	-	642.09
	08/01/2005	650.10	8.18	641.92	-	-	641.92
	09/07/2005	650.10	8.01	642.09	-	-	642.09
	10/05/2005	650.10	7.34	642.76	-	-	642.76
	11/08/2005	650.10	6.32	643.78	-	-	643.78
	12/09/2005	650.10	5.21	644.89	-	-	644.89
	01/06/2006	650.10	5.57	644.53	-	-	644.53
	02/02/2006	650.10	4.29	645.81	-	-	645.81
	03/21/2006	650.10	4.63	645.47	-	-	645.47
	04/06/2006	650.10	4.98	645.12	-	-	645.12
	04/25/2006	650.10	4.96	645.14	-	-	645.14
	05/11/2006	650.10	5.65	644.45	-	-	644.45
	06/12/2006	650.10	6.02	644.08	-	-	644.08
	07/07/2006	650.10	6.29	643.81	-	-	643.81
	10/05/2006	650.10	7.76	642.34	-	-	642.34
	05/23/2007	650.10	5.74	644.36	-	-	644.36
1795-PZ08	12/02/2002	648.51	11.65	636.86	-	-	636.86
	01/06/2003	648.51	11.08	637.43	-	-	637.43
	02/07/2003	648.51	11.38	637.13	-	-	637.13
	09/02/2004	648.51	9.98	638.53	-	-	638.53
	09/15/2004	648.51	9.52	638.99	-	-	638.99
	10/04/2004	648.51	10.08	638.43	-	-	638.43
	11/01/2004	648.51	10.50	638.01	-	-	638.01

**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/03/2004	648.51	10.25	638.26	-	-	638.26
	01/04/2005	648.51	8.32	640.19	-	-	640.19
	02/03/2005	648.51	8.32	640.19	-	-	640.19
	03/01/2005	648.51	8.71	639.80	-	-	639.80
	04/07/2005	648.51	7.46	641.05	-	-	641.05
	04/19/2005	648.51	7.65	640.86	7.64	0.01	640.87
	05/03/2005	648.51	7.86	640.65	-	-	640.65
	06/01/2005	648.51	8.50	640.01	-	-	640.01
	07/05/2005	648.51	9.56	638.95	-	-	638.95
	08/01/2005	648.51	10.08	638.43	-	-	638.43
	09/07/2005	648.51	10.29	638.22	-	-	638.22
	10/05/2005	648.51	9.56	638.95	-	-	638.95
	11/08/2005	648.51	8.02	640.49	-	-	640.49
	12/09/2005	648.51	6.49	642.02	-	-	642.02
	01/06/2006	648.51	7.27	641.24	-	-	641.24
	02/02/2006	648.51	5.54	642.97	-	-	642.97
	03/21/2006	648.51	5.53	642.98	-	-	642.98
	04/06/2006	648.51	6.14	642.37	-	-	642.37
	04/25/2006	648.51	6.25	642.26	-	-	642.26
	05/11/2006	648.51	6.85	641.66	-	-	641.66
	06/12/2006	648.51	7.52	640.99	-	-	640.99
	07/07/2006	648.51	7.77	640.74	-	-	640.74
	10/05/2006	648.51	9.96	638.55	-	-	638.55
	05/23/2007	648.51	6.47	642.04	-	-	642.04
	09/19/2008	648.51	NR	-	NR	-	-
	10/23/2008	648.51	8.45	640.06	-	-	640.06
	12/30/2008	648.51	4.58	643.93	-	-	643.93
	01/28/2009	648.51	6.12	642.39	-	-	642.39
	02/24/2009	648.51	6.05	642.46	-	-	642.46
	03/27/2009	648.51	5.61	642.90	-	-	642.90
	04/28/2009	648.51	5.64	642.87	-	-	642.87
	05/20/2009	648.51	5.58	642.93	-	-	642.93
	06/25/2009	648.51	6.28	642.23	-	-	642.23
	07/20/2009	648.51	7.08	641.43	-	-	641.43
	08/25/2009	648.51	8.27	640.24	-	-	640.24
	09/15/2009	648.51	9.45	639.06	-	-	639.06
	09/22/2009	648.51	9.85	638.66	-	-	638.66
	10/14/2009	648.51	10.28	638.23	-	-	638.23
	11/10/2009	648.51	10.31	638.20	-	-	638.20
	12/14/2009	648.51	10.98	637.53	-	-	637.53
	01/11/2010	648.51	11.13	637.38	-	-	637.38
	02/10/2010	648.51	10.69	637.82	-	-	637.82
	03/10/2010	648.51	10.58	637.93	-	-	637.93
	04/14/2010	648.51	10.42	638.09	-	-	638.09
	05/12/2010	648.51	11.36	637.15	-	-	637.15
	06/17/2010	648.51	11.94	636.57	-	-	636.57
	07/14/2010	648.51	11.78	636.73	-	-	636.73
	08/09/2010	648.51	12.02	636.49	-	-	636.49
	09/16/2010	648.51	11.50	637.01	-	-	637.01
	10/13/2010	648.51	10.18	638.33	-	-	638.33
	11/16/2010	648.51	11.03	637.48	-	-	637.48
	12/16/2010	648.51	10.07	638.44	-	-	638.44
	01/13/2011	648.51	10.03	638.48	-	-	638.48
	03/14/2011	648.51	8.88	639.63	-	-	639.63
	04/12/2011	648.51	9.45	639.06	-	-	639.06
	05/19/2011	648.51	8.04	640.47	-	-	640.47
	06/20/2011	648.51	9.08	639.43	-	-	639.43
	07/13/2011	648.51	9.61	638.90	-	-	638.90
1795-PZ09	12/02/2002	652.82	17.53	635.29	17.50	0.03	635.31
	01/06/2003	652.82	16.95	635.87	16.94	0.01	635.88
	02/07/2003	652.82	17.15	635.67	17.14	0.01	635.68
	09/02/2004	652.82	15.85	636.97	-	-	636.97

**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	09/15/2004	652.82	15.47	637.35	-	-	637.35
	10/04/2004	652.82	15.89	636.93	-	-	636.93
	11/01/2004	652.82	16.30	636.52	-	-	636.52
	12/03/2004	652.82	16.27	636.55	-	-	636.55
	01/04/2005	652.82	14.48	638.34	-	-	638.34
	02/03/2005	652.82	14.07	638.75	-	-	638.75
	03/01/2005	652.82	14.50	638.32	-	-	638.32
	04/07/2005	652.82	13.17	639.65	-	-	639.65
	04/19/2005	652.82	13.26	639.56	-	-	639.56
	05/03/2005	652.82	13.60	639.22	-	-	639.22
	06/01/2005	652.82	14.20	638.62	-	-	638.62
	07/05/2005	652.82	15.28	637.54	-	-	637.54
	08/01/2005	652.82	15.79	637.03	-	-	637.03
	09/07/2005	652.82	16.25	636.57	-	-	636.57
	10/05/2005	652.82	15.58	637.24	-	-	637.24
	11/08/2005	652.82	13.84	638.98	-	-	638.98
	12/09/2005	652.82	12.22	640.60	-	-	640.60
	01/06/2006	652.82	13.07	639.75	-	-	639.75
	02/02/2006	652.82	11.42	641.40	-	-	641.40
	03/21/2006	652.82	11.17	641.65	-	-	641.65
	04/06/2006	652.82	11.88	640.94	-	-	640.94
	04/25/2006	652.82	12.11	640.71	-	-	640.71
	05/11/2006	652.82	12.55	640.27	-	-	640.27
	06/12/2006	652.82	13.27	639.55	-	-	639.55
	07/07/2006	652.82	13.51	639.31	-	-	639.31
	10/05/2006	652.82	15.87	636.95	-	-	636.95
	05/23/2007	652.82	12.11	640.71	-	-	640.71
	09/19/2008	652.82	13.90	638.92	-	-	638.92
	10/23/2008	652.82	14.35	638.47	-	-	638.47
	12/30/2008	652.82	10.42	642.40	-	-	642.40
	01/28/2009	652.82	11.92	640.90	-	-	640.90
	02/24/2009	652.82	11.85	640.97	-	-	640.97
	03/27/2009	652.82	11.35	641.47	-	-	641.47
	04/28/2009	652.82	11.32	641.50	-	-	641.50
	05/20/2009	652.82	11.31	641.51	-	-	641.51
	06/25/2009	652.82	11.96	640.86	-	-	640.86
	07/20/2009	652.82	12.82	640.00	-	-	640.00
	08/25/2009	652.82	13.95	638.87	-	-	638.87
	09/15/2009	652.82	15.05	637.77	-	-	637.77
	09/22/2009	652.82	15.39	637.43	-	-	637.43
	10/14/2009	652.82	15.95	636.87	-	-	636.87
	11/10/2009	652.82	16.02	636.80	-	-	636.80
	12/14/2009	652.82	16.63	636.19	-	-	636.19
	01/11/2010	652.82	16.77	636.05	-	-	636.05
	02/10/2010	652.82	16.37	636.45	-	-	636.45
	03/10/2010	652.82	16.28	636.54	-	-	636.54
	04/14/2010	652.82	16.06	636.76	-	-	636.76
	05/12/2010	652.82	16.98	635.84	-	-	635.84
	06/17/2010	652.82	17.56	635.26	-	-	635.26
	07/14/2010	652.82	17.46	635.36	-	-	635.36
	08/09/2010	652.82	17.73	635.09	-	-	635.09
	09/16/2010	652.82	17.33	635.49	-	-	635.49
	10/13/2010	652.82	16.14	636.68	-	-	636.68
	11/16/2010	652.82	16.69	636.13	-	-	636.13
	12/16/2010	652.82	15.97	636.85	-	-	636.85
	01/13/2011	652.82	16.41	636.41	-	-	636.41
	03/14/2011	652.82	14.51	638.31	-	-	638.31
	04/12/2011	652.82	15.07	637.75	-	-	637.75
	05/19/2011	652.82	13.60	639.22	-	-	639.22
	06/20/2011	652.82	14.52	638.30	-	-	638.30
	07/13/2011	652.82	15.29	637.53	-	-	637.53

**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
1795-PZ10	12/02/2002	648.25	9.96	638.29	-	-	638.29
	01/06/2003	648.25	9.33	638.92	-	-	638.92
	02/07/2003	648.25	9.75	638.50	-	-	638.50
	09/02/2004	648.25	8.23	640.02	-	-	640.02
	09/15/2004	648.25	7.65	640.60	-	-	640.60
	10/04/2004	648.25	8.39	639.86	-	-	639.86
	11/01/2004	648.25	8.86	639.39	-	-	639.39
	12/03/2004	648.25	8.37	639.88	-	-	639.88
	01/04/2005	648.25	6.35	641.90	-	-	641.90
	02/03/2005	648.25	6.75	641.50	-	-	641.50
	03/01/2005	648.25	7.08	641.17	-	-	641.17
	04/07/2005	648.25	6.02	642.23	-	-	642.23
	04/19/2005	648.25	6.25	642.00	-	-	642.00
	05/03/2005	648.25	6.35	641.90	-	-	641.90
	06/01/2005	648.25	7.01	641.24	-	-	641.24
	07/05/2005	648.25	8.03	640.22	-	-	640.22
	08/01/2005	648.25	8.37	639.88	-	-	639.88
	09/07/2005	648.25	8.43	639.82	-	-	639.82
	10/05/2005	648.25	7.70	640.55	-	-	640.55
	11/08/2005	648.25	6.39	641.86	-	-	641.86
	12/09/2005	648.25	5.05	643.20	-	-	643.20
	01/06/2006	648.25	5.65	642.60	-	-	642.60
	02/02/2006	648.25	4.09	644.16	-	-	644.16
	03/21/2006	648.25	4.27	643.98	-	-	643.98
	04/06/2006	648.25	4.77	643.48	-	-	643.48
	04/25/2006	648.25	4.78	643.47	-	-	643.47
	05/11/2006	648.25	5.44	642.81	-	-	642.81
	06/12/2006	648.25	5.96	642.29	-	-	642.29
	07/07/2006	648.25	6.23	642.02	-	-	642.02
	10/05/2006	648.25	8.12	640.13	-	-	640.13
05/23/2007	648.25	5.17	643.08	-	-	643.08	
1795-PZ11	12/02/2002	650.85	NR	-	NR	-	-
	01/06/2003	650.85	NR	-	NR	-	-
	02/07/2003	650.85	NR	-	NR	-	-
1795-PZ12	12/02/2002	648.64	NR	-	NR	-	-
	01/06/2003	648.64	NR	-	NR	-	-
	02/07/2003	648.64	NR	-	NR	-	-
	09/02/2004	648.64	4.33	644.31	-	-	644.31
	09/15/2004	648.64	4.92	643.72	-	-	643.72
	10/04/2004	648.64	4.46	644.18	-	-	644.18
	11/01/2004	648.64	5.27	643.37	-	-	643.37
	12/03/2004	648.64	4.35	644.29	-	-	644.29
	01/04/2005	648.64	3.46	645.18	-	-	645.18
	02/03/2005	648.64	NR	-	NR	-	-
	03/01/2005	648.64	NR	-	NR	-	-
	04/07/2005	648.64	3.02	645.62	-	-	645.62
	04/19/2005	648.64	4.36	644.28	-	-	644.28
	05/03/2005	648.64	3.34	645.30	-	-	645.30
	06/01/2005	648.64	4.02	644.62	-	-	644.62
	07/05/2005	648.64	5.67	642.97	-	-	642.97
	08/01/2005	648.64	4.67	643.97	-	-	643.97
	09/07/2005	648.64	4.57	644.07	-	-	644.07
	10/05/2005	648.64	3.95	644.69	-	-	644.69
	11/08/2005	648.64	3.05	645.59	-	-	645.59
	12/09/2005	648.64	2.22	646.42	-	-	646.42
	01/06/2006	648.64	NR	-	NR	-	-
	02/02/2006	648.64	1.04	647.60	-	-	647.60
	03/21/2006	648.64	1.56	647.08	-	-	647.08
	04/06/2006	648.64	1.95	646.69	-	-	646.69
04/25/2006	648.64	1.90	646.74	-	-	646.74	
05/11/2006	648.64	2.58	646.06	-	-	646.06	

**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/12/2006	648.64	2.86	645.78	-	-	645.78
	07/07/2006	648.64	3.08	645.56	-	-	645.56
	10/05/2006	648.64	4.33	644.31	-	-	644.31
	05/23/2007	648.64	3.21	645.43	-	-	645.43
1795-PZ13	12/02/2002	648.64	NR	-	NR	-	-
	01/06/2003	648.64	NR	-	NR	-	-
	02/07/2003	648.64	NR	-	NR	-	-
	09/02/2004	648.64	4.08	644.56	-	-	644.56
	09/15/2004	648.64	4.52	644.12	-	-	644.12
	10/04/2004	648.64	4.05	644.59	-	-	644.59
	11/01/2004	648.64	4.91	643.73	-	-	643.73
	12/03/2004	648.64	4.39	644.25	-	-	644.25
	01/04/2005	648.64	3.35	645.29	-	-	645.29
	02/03/2005	648.64	NR	-	NR	-	-
	03/01/2005	648.64	NR	-	NR	-	-
	04/07/2005	648.64	2.61	646.03	-	-	646.03
	04/19/2005	648.64	2.86	645.78	-	-	645.78
	05/03/2005	648.64	2.94	645.70	-	-	645.70
	06/01/2005	648.64	3.61	645.03	-	-	645.03
	07/05/2005	648.64	5.13	643.51	-	-	643.51
	08/01/2005	648.64	4.29	644.35	-	-	644.35
	09/07/2005	648.64	4.27	644.37	-	-	644.37
	10/05/2005	648.64	3.70	644.94	-	-	644.94
	11/08/2005	648.64	2.68	645.96	-	-	645.96
	12/09/2005	648.64	1.83	646.81	-	-	646.81
	01/06/2006	648.64	NR	-	NR	-	-
	02/02/2006	648.64	1.29	647.35	-	-	647.35
	03/21/2006	648.64	1.36	647.28	-	-	647.28
	04/06/2006	648.64	1.81	646.83	-	-	646.83
	04/25/2006	648.64	1.71	646.93	-	-	646.93
	05/11/2006	648.64	2.36	646.28	-	-	646.28
	06/12/2006	648.64	2.66	645.98	-	-	645.98
	07/07/2006	648.64	2.84	645.80	-	-	645.80
	10/05/2006	648.64	4.00	644.64	-	-	644.64
	05/23/2007	648.64	2.83	645.81	-	-	645.81
1795-PZ14	12/02/2002	646.15	11.53	634.62	-	-	634.62
	01/06/2003	646.15	10.97	635.18	-	-	635.18
	02/07/2003	646.15	11.16	634.99	-	-	634.99
	09/02/2004	646.15	10.31	635.84	-	-	635.84
	09/15/2004	646.15	9.96	636.19	-	-	636.19
	10/04/2004	646.15	10.68	635.47	-	-	635.47
	11/01/2004	646.15	11.04	635.11	-	-	635.11
	12/03/2004	646.15	10.63	635.52	-	-	635.52
	01/04/2005	646.15	9.65	636.50	-	-	636.50
	02/03/2005	646.15	9.67	636.48	-	-	636.48
	03/01/2005	646.15	9.97	636.18	-	-	636.18
	04/07/2005	646.15	8.93	637.22	-	-	637.22
	04/19/2005	646.15	8.95	637.20	-	-	637.20
	05/03/2005	646.15	9.13	637.02	-	-	637.02
	06/01/2005	646.15	9.69	636.46	-	-	636.46
	07/05/2005	646.15	10.46	635.69	-	-	635.69
	08/01/2005	646.15	10.52	635.63	-	-	635.63
	09/07/2005	646.15	10.57	635.58	-	-	635.58
	10/05/2005	646.15	10.08	636.07	-	-	636.07
	11/08/2005	646.15	9.00	637.15	-	-	637.15
	12/09/2005	646.15	NR	-	NR	-	-
	01/06/2006	646.15	8.58	637.57	-	-	637.57
	02/02/2006	646.15	7.47	638.68	-	-	638.68
	03/21/2006	646.15	7.62	638.53	-	-	638.53
	04/06/2006	646.15	8.14	638.01	-	-	638.01
	04/25/2006	646.15	8.21	637.94	-	-	637.94



**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/11/2006	646.15	8.64	637.51	-	-	637.51
	06/12/2006	646.15	9.03	637.12	-	-	637.12
	07/07/2006	646.15	9.19	636.96	-	-	636.96
	10/05/2006	646.15	10.17	635.98	-	-	635.98
	05/23/2007	646.15	8.21	637.94	-	-	637.94
1795-PZ15	12/02/2002	651.83	16.63	635.20	-	-	635.20
	01/06/2003	651.83	16.03	635.80	-	-	635.80
	02/07/2003	651.83	16.27	635.56	-	-	635.56
	09/02/2004	651.83	15.07	636.76	-	-	636.76
	09/15/2004	651.83	NR	-	NR	-	-
	10/04/2004	651.83	15.16	636.67	-	-	636.67
	11/01/2004	651.83	15.54	636.29	-	-	636.29
	12/03/2004	651.83	15.47	636.36	-	-	636.36
	01/04/2005	651.83	13.85	637.98	-	-	637.98
	02/03/2005	651.83	13.47	638.36	-	-	638.36
	03/01/2005	651.83	13.83	638.00	-	-	638.00
	04/07/2005	651.83	12.56	639.27	-	-	639.27
	04/19/2005	651.83	NR	-	NR	-	-
	05/03/2005	651.83	13.02	638.81	-	-	638.81
	06/01/2005	651.83	13.57	638.26	-	-	638.26
	07/05/2005	651.83	14.57	637.26	-	-	637.26
	08/01/2005	651.83	15.01	636.82	-	-	636.82
	09/07/2005	651.83	15.42	636.41	-	-	636.41
	10/05/2005	651.83	14.76	637.07	-	-	637.07
	11/08/2005	651.83	13.14	638.69	-	-	638.69
	12/09/2005	651.83	11.63	640.20	-	-	640.20
	01/06/2006	651.83	12.44	639.39	-	-	639.39
	02/02/2006	651.83	10.84	640.99	-	-	640.99
	03/21/2006	651.83	10.65	641.18	-	-	641.18
	04/06/2006	651.83	11.39	640.44	-	-	640.44
	04/25/2006	651.83	NR	-	NR	-	-
	05/11/2006	651.83	11.96	639.87	-	-	639.87
	06/12/2006	651.83	12.65	639.18	-	-	639.18
	07/07/2006	651.83	12.87	638.96	-	-	638.96
	10/05/2006	651.83	NR	-	NR	-	-
	05/23/2007	651.83	11.55	640.28	-	-	640.28
1795-PZ16	12/02/2002	654.78	18.35	636.43	-	-	636.43
	01/06/2003	654.78	17.74	637.04	-	-	637.04
	02/07/2003	654.78	18.04	636.74	-	-	636.74
	09/02/2004	654.78	16.73	638.05	-	-	638.05
	10/04/2004	654.78	16.82	637.96	-	-	637.96
	11/01/2004	654.78	17.23	637.55	-	-	637.55
	12/03/2004	654.78	17.13	637.65	-	-	637.65
	01/04/2005	654.78	15.42	639.36	-	-	639.36
	02/03/2005	654.78	15.16	639.62	-	-	639.62
	03/01/2005	654.78	15.54	639.24	-	-	639.24
	04/07/2005	654.78	14.31	640.47	-	-	640.47
	05/03/2005	654.78	14.73	640.05	-	-	640.05
	06/01/2005	654.78	15.32	639.46	-	-	639.46
	07/05/2005	654.78	16.30	638.48	-	-	638.48
	08/01/2005	654.78	16.69	638.09	-	-	638.09
	09/07/2005	654.78	17.04	637.74	-	-	637.74
	10/05/2005	654.78	16.34	638.44	-	-	638.44
	11/08/2005	654.78	14.81	639.97	-	-	639.97
	12/09/2005	654.78	13.32	641.46	-	-	641.46
	01/06/2006	654.78	14.12	640.66	-	-	640.66
	02/02/2006	654.78	12.47	642.31	-	-	642.31
	03/21/2006	654.78	12.41	642.37	-	-	642.37
	04/06/2006	654.78	13.12	641.66	-	-	641.66
	05/11/2006	654.78	13.72	641.06	-	-	641.06
	06/12/2006	654.78	14.38	640.40	-	-	640.40

**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	07/07/2006	654.78	14.56	640.22	-	-	640.22
1795-PZ17	12/02/2002	648.42	13.29	635.13	-	-	635.13
	01/06/2003	648.42	12.85	635.57	-	-	635.57
	02/07/2003	648.42	12.94	635.48	-	-	635.48
	09/02/2004	648.42	11.84	636.58	11.80	0.04	636.61
	10/04/2004	648.42	11.99	636.43	11.87	0.12	636.52
	11/01/2004	648.42	12.29	636.13	-	-	636.13
	12/03/2004	648.42	12.30	636.12	-	-	636.12
	01/04/2005	648.42	10.64	637.78	-	-	637.78
	02/03/2005	648.42	10.15	638.27	-	-	638.27
	03/01/2005	648.42	10.53	637.89	-	-	637.89
	04/07/2005	648.42	9.21	639.21	-	-	639.21
	05/03/2005	648.42	9.64	638.78	-	-	638.78
	06/01/2005	648.42	10.22	638.20	-	-	638.20
	07/05/2005	648.42	11.26	637.16	-	-	637.16
	08/01/2005	648.42	11.72	636.70	-	-	636.70
	09/07/2005	648.42	12.25	636.17	-	-	636.17
	10/05/2005	648.42	11.59	636.83	-	-	636.83
	11/08/2005	648.42	9.89	638.53	-	-	638.53
	12/09/2005	648.42	8.31	640.11	-	-	640.11
	01/06/2006	648.42	9.16	639.26	-	-	639.26
	02/02/2006	648.42	7.49	640.93	-	-	640.93
	03/21/2006	648.42	7.28	641.14	-	-	641.14
	04/06/2006	648.42	7.97	640.45	-	-	640.45
	05/11/2006	648.42	8.62	639.80	-	-	639.80
	06/12/2006	648.42	9.27	639.15	-	-	639.15
	07/07/2006	648.42	9.51	638.91	-	-	638.91
	09/19/2008	648.42	9.78	638.64	-	-	638.64
	10/23/2008	648.42	10.21	638.21	-	-	638.21
	12/30/2008	648.42	6.46	641.96	-	-	641.96
	01/28/2009	648.42	7.87	640.55	-	-	640.55
	02/24/2009	648.42	7.92	640.50	-	-	640.50
	03/27/2009	648.42	7.45	640.97	-	-	640.97
	04/28/2009	648.42	7.38	641.04	-	-	641.04
05/20/2009	648.42	7.39	641.03	-	-	641.03	
06/25/2009	648.42	7.97	640.45	-	-	640.45	
07/20/2009	648.42	8.77	639.65	-	-	639.65	
08/25/2009	648.42	9.98	638.44	-	-	638.44	
09/15/2009	648.42	11.00	637.42	-	-	637.42	
09/22/2009	648.42	11.40	637.02	-	-	637.02	
10/14/2009	648.42	11.81	636.61	-	-	636.61	
11/10/2009	648.42	11.88	636.54	-	-	636.54	
12/14/2009	648.42	12.54	635.88	-	-	635.88	
01/11/2010	648.42	12.72	635.70	-	-	635.70	
02/10/2010	648.42	12.38	636.04	-	-	636.04	
03/10/2010	648.42	12.26	636.16	-	-	636.16	
04/14/2010	648.42	12.03	636.39	-	-	636.39	
05/12/2010	648.42	12.92	635.50	-	-	635.50	
06/17/2010	648.42	13.71	634.71	13.42	0.29	635.00	
07/14/2010	648.42	14.79	633.63	13.42	1.37	635.00	
08/09/2010	648.42	14.28	634.14	13.62	0.66	634.80	
09/16/2010	648.42	14.44	633.98	13.62	0.82	634.80	
10/13/2010	648.42	12.13	636.29	-	-	636.29	
11/16/2010	648.42	12.64	635.78	-	-	635.78	
	12/16/2010	648.42	11.86	636.56	-	-	636.56
	01/13/2011	648.42	12.09	636.33	-	-	636.33
	03/14/2011	648.42	12.73	635.69	-	-	635.69
	04/12/2011	648.42	11.05	637.37	-	-	637.37
	05/19/2011	648.42	9.51	638.91	-	-	638.91
	06/20/2011	648.42	10.48	637.94	-	-	637.94
	07/13/2011	648.42	11.15	637.27	-	-	637.27

**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)	
1795-PZ18	12/02/2002	651.40	16.57	634.83	-	-	634.83	
	01/06/2003	651.40	15.98	635.42	-	-	635.42	
	02/07/2003	651.40	16.18	635.22	-	-	635.22	
	09/02/2004	651.40	14.88	636.52	-	-	636.52	
	10/04/2004	651.40	14.94	636.46	-	-	636.46	
	11/01/2004	651.40	15.34	636.06	-	-	636.06	
	12/03/2004	651.40	15.32	636.08	-	-	636.08	
	01/04/2005	651.40	13.62	637.78	-	-	637.78	
	02/03/2005	651.40	13.14	638.26	-	-	638.26	
	03/01/2005	651.40	13.55	637.85	-	-	637.85	
	04/07/2005	651.40	12.21	639.19	-	-	639.19	
	05/03/2005	651.40	12.61	638.79	-	-	638.79	
	06/01/2005	651.40	13.20	638.20	-	-	638.20	
	07/05/2005	651.40	14.30	637.10	-	-	637.10	
	08/01/2005	651.40	14.81	636.59	-	-	636.59	
	09/07/2005	651.40	15.33	636.07	-	-	636.07	
	10/05/2005	651.40	14.65	636.75	-	-	636.75	
	11/08/2005	651.40	12.91	638.49	-	-	638.49	
	12/09/2005	651.40	11.31	640.09	-	-	640.09	
	01/06/2006	651.40	12.13	639.27	-	-	639.27	
	02/02/2006	651.40	10.48	640.92	-	-	640.92	
	03/21/2006	651.40	10.21	641.19	-	-	641.19	
	04/06/2006	651.40	10.91	640.49	-	-	640.49	
	05/11/2006	651.40	11.56	639.84	-	-	639.84	
	06/12/2006	651.40	12.29	639.11	-	-	639.11	
	07/07/2006	651.40	12.56	638.84	-	-	638.84	
	1795-RW1	12/02/2002	653.99	17.74	636.25	-	-	636.25
		01/06/2003	653.99	12.16	641.83	12.15	0.01	641.84
02/07/2003		653.99	17.40	636.59	17.39	0.01	636.60	
09/02/2004		653.99	16.15	637.84	-	-	637.84	
09/15/2004		653.99	15.74	638.25	-	-	638.25	
10/04/2004		653.99	16.23	637.76	-	-	637.76	
11/01/2004		653.99	16.64	637.35	-	-	637.35	
12/03/2004		653.99	16.57	637.42	-	-	637.42	
01/04/2005		653.99	14.88	639.11	-	-	639.11	
02/03/2005		653.99	14.54	639.45	-	-	639.45	
03/01/2005		653.99	14.94	639.05	-	-	639.05	
04/07/2005		653.99	13.69	640.30	-	-	640.30	
04/19/2005		653.99	13.77	640.22	-	-	640.22	
05/03/2005		653.99	14.10	639.89	-	-	639.89	
06/01/2005		653.99	14.67	639.32	-	-	639.32	
07/05/2005		653.99	15.67	638.32	-	-	638.32	
08/01/2005		653.99	16.09	637.90	-	-	637.90	
09/07/2005		653.99	16.48	637.51	-	-	637.51	
10/05/2005		653.99	15.81	638.18	-	-	638.18	
11/08/2005		653.99	14.22	639.77	-	-	639.77	
12/09/2005		653.99	12.67	641.32	-	-	641.32	
01/06/2006		653.99	13.54	640.45	-	-	640.45	
02/02/2006		653.99	11.92	642.07	-	-	642.07	
03/21/2006		653.99	11.75	642.24	-	-	642.24	
04/06/2006		653.99	12.50	641.49	-	-	641.49	
04/25/2006		653.99	12.68	641.31	-	-	641.31	
05/11/2006		653.99	13.09	640.90	-	-	640.90	
06/12/2006		653.99	13.77	640.22	-	-	640.22	
07/07/2006		653.99	13.96	640.03	-	-	640.03	
10/05/2006		653.99	16.13	637.86	-	-	637.86	
05/23/2007		653.99	12.69	641.30	-	-	641.30	
09/19/2008		653.99	13.98	640.01	-	-	640.01	
10/23/2008	653.99	14.42	639.57	-	-	639.57		
12/30/2008	653.99	10.68	643.31	-	-	643.31		
01/28/2009	653.99	12.25	641.74	-	-	641.74		
02/24/2009	653.99	12.26	641.73	-	-	641.73		

**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	03/27/2009	653.99	11.85	642.14	-	-	642.14
	04/28/2009	653.99	11.87	642.12	-	-	642.12
	05/20/2009	653.99	11.73	642.26	-	-	642.26
	06/25/2009	653.99	12.36	641.63	-	-	641.63
	07/20/2009	653.99	13.08	640.91	-	-	640.91
	08/25/2009	653.99	14.31	639.68	-	-	639.68
	09/15/2009	653.99	15.53	638.46	-	-	638.46
	09/22/2009	653.99	15.89	638.10	-	-	638.10
	10/14/2009	653.99	16.32	637.67	-	-	637.67
	11/10/2009	653.99	16.16	637.83	-	-	637.83
	12/14/2009	653.99	17.02	636.97	-	-	636.97
	01/11/2010	653.99	17.06	636.93	-	-	636.93
	02/10/2010	653.99	16.81	637.18	-	-	637.18
	03/10/2010	653.99	16.51	637.48	-	-	637.48
	04/14/2010	653.99	16.34	637.65	-	-	637.65
	05/12/2010	653.99	17.36	636.63	-	-	636.63
	06/17/2010	653.99	17.86	636.13	-	-	636.13
	07/14/2010	653.99	17.62	636.37	-	-	636.37
	08/09/2010	653.99	17.78	636.21	-	-	636.21
	09/16/2010	653.99	17.41	636.58	-	-	636.58
	10/13/2010	653.99	16.04	637.95	-	-	637.95
	11/16/2010	653.99	16.85	637.14	-	-	637.14
	12/16/2010	653.99	16.12	637.87	-	-	637.87
	01/13/2011	653.99	16.38	637.61	-	-	637.61
	03/14/2011	653.99	15.24	638.75	-	-	638.75
	04/12/2011	653.99	15.63	638.36	-	-	638.36
	05/19/2011	653.99	14.21	639.78	-	-	639.78
	06/20/2011	653.99	15.14	638.85	-	-	638.85
	07/13/2011	653.99	15.81	638.18	-	-	638.18
1795-RW2	12/02/2002	647.68	10.92	636.76	-	-	636.76
	01/06/2003	647.68	10.38	637.30	-	-	637.30
	02/07/2003	647.68	10.65	637.03	-	-	637.03
	09/02/2004	647.68	9.59	638.09	-	-	638.09
	09/15/2004	647.68	9.16	638.52	-	-	638.52
	10/04/2004	647.68	10.17	637.51	9.88	0.29	637.73
	11/01/2004	647.68	10.62	637.06	10.29	0.33	637.31
	12/03/2004	647.68	9.90	637.78	-	-	637.78
	01/04/2005	647.68	8.81	638.87	-	-	638.87
	02/03/2005	647.68	8.93	638.75	-	-	638.75
	03/01/2005	647.68	9.15	638.53	-	-	638.53
	04/07/2005	647.68	8.02	639.66	-	-	639.66
	04/19/2005	647.68	8.21	639.47	-	-	639.47
	05/03/2005	647.68	8.33	639.35	-	-	639.35
	06/01/2005	647.68	8.98	638.70	-	-	638.70
	07/05/2005	647.68	9.66	638.02	-	-	638.02
	08/01/2005	647.68	9.78	637.90	-	-	637.90
	09/07/2005	647.68	9.82	637.86	9.80	0.02	637.88
	10/05/2005	647.68	9.26	638.42	-	-	638.42
	11/08/2005	647.68	8.14	639.54	-	-	639.54
	12/09/2005	647.68	7.18	640.50	-	-	640.50
	01/06/2006	647.68	7.55	640.13	-	-	640.13
	02/02/2006	647.68	6.46	641.22	-	-	641.22
	03/21/2006	647.68	6.68	641.00	-	-	641.00
	04/06/2006	647.68	7.18	640.50	-	-	640.50
	04/25/2006	647.68	8.08	639.60	-	-	639.60
	05/11/2006	647.68	7.74	639.94	-	-	639.94
	06/12/2006	647.68	8.08	639.60	-	-	639.60
	07/07/2006	647.68	8.28	639.40	-	-	639.40
	10/05/2006	647.68	9.54	638.14	-	-	638.14
	05/23/2007	647.68	7.28	640.40	-	-	640.40
	09/19/2008	647.68	NR	-	NR	-	-
	10/23/2008	647.68	8.82	638.86	-	-	638.86

**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/30/2008	647.68	5.22	642.46	-	-	642.46
	01/28/2009	647.68	7.05	640.63	-	-	640.63
	02/24/2009	647.68	7.16	640.52	-	-	640.52
	03/27/2009	647.68	6.65	641.03	-	-	641.03
	04/28/2009	647.68	6.78	640.90	-	-	640.90
	05/20/2009	647.68	6.81	640.87	-	-	640.87
	06/25/2009	647.68	7.12	640.56	-	-	640.56
	07/20/2009	647.68	7.47	640.21	-	-	640.21
	08/25/2009	647.68	9.50	638.18	-	-	638.18
	09/15/2009	647.68	10.46	637.22	-	-	637.22
	09/22/2009	647.68	10.72	636.96	-	-	636.96
	10/14/2009	647.68	10.78	636.90	-	-	636.90
	11/10/2009	647.68	10.88	636.80	-	-	636.80
	12/14/2009	647.68	11.18	636.50	-	-	636.50
	01/11/2010	647.68	11.59	636.09	-	-	636.09
	02/10/2010	647.68	11.23	636.45	11.21	0.02	636.47
	03/10/2010	647.68	11.32	636.36	-	-	636.36
	04/14/2010	647.68	11.12	636.56	-	-	636.56
	05/12/2010	647.68	11.69	635.99	-	-	635.99
	06/17/2010	647.68	11.86	635.82	-	-	635.82
	07/14/2010	647.68	11.82	635.86	-	-	635.86
	08/09/2010	647.68	12.74	634.94	-	-	634.94
	09/16/2010	647.68	12.95	634.73	-	-	634.73
	10/13/2010	647.68	10.46	637.22	-	-	637.22
	11/16/2010	647.68	11.30	636.38	-	-	636.38
	12/16/2010	647.68	10.76	636.92	-	-	636.92
	01/13/2011	647.68	11.07	636.61	-	-	636.61
	03/14/2011	647.68	9.41	638.27	-	-	638.27
	04/12/2011	647.68	10.54	637.14	-	-	637.14
	05/19/2011	647.68	9.09	638.59	-	-	638.59
	06/20/2011	647.68	10.56	637.12	-	-	637.12
	07/13/2011	647.68	10.61	637.07	-	-	637.07
1795-RW3	12/02/2002	652.57	10.38	642.19	-	-	642.19
	01/06/2003	652.57	9.74	642.83	-	-	642.83
	02/07/2003	652.57	10.32	642.25	-	-	642.25
	09/02/2004	652.57	8.65	643.92	-	-	643.92
	09/15/2004	652.57	8.14	644.43	-	-	644.43
	10/04/2004	652.57	9.11	643.46	-	-	643.46
	11/01/2004	652.57	9.63	642.94	-	-	642.94
	12/03/2004	652.57	8.89	643.68	-	-	643.68
	01/04/2005	652.57	7.44	645.13	-	-	645.13
	02/03/2005	652.57	8.04	644.53	-	-	644.53
	03/01/2005	652.57	8.25	644.32	-	-	644.32
	04/07/2005	652.57	7.18	645.39	-	-	645.39
	04/19/2005	652.57	7.56	645.01	-	-	645.01
	05/03/2005	652.57	7.49	645.08	-	-	645.08
	06/01/2005	652.57	8.25	644.32	-	-	644.32
	07/05/2005	652.57	8.98	643.59	-	-	643.59
	08/01/2005	652.57	9.03	643.54	-	-	643.54
	09/07/2005	652.57	8.83	643.74	-	-	643.74
	10/05/2005	652.57	8.20	644.37	-	-	644.37
	11/08/2005	652.57	7.27	645.30	-	-	645.30
	12/09/2005	652.57	6.35	646.22	-	-	646.22
	01/06/2006	652.57	6.55	646.02	-	-	646.02
	02/02/2006	652.57	5.43	647.14	-	-	647.14
	03/21/2006	652.57	5.75	646.82	-	-	646.82
	04/06/2006	652.57	6.07	646.50	-	-	646.50
	04/25/2006	652.57	5.96	646.61	-	-	646.61
	05/11/2006	652.57	6.74	645.83	-	-	645.83
	06/12/2006	652.57	6.96	645.61	-	-	645.61
	07/07/2006	652.57	7.30	645.27	-	-	645.27
	10/05/2006	652.57	8.56	644.01	-	-	644.01

**Table C-1  
Historical Well Gauging Data Summary**

**Area 1795  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/23/2007	652.57	6.32	646.25	-	-	646.25
1795-TP09	12/02/2002	649.28	13.71	635.57	-	-	635.57
	01/06/2003	649.28	13.15	636.13	-	-	636.13
	02/07/2003	649.28	13.36	635.92	-	-	635.92
	09/02/2004	649.28	12.04	637.24	11.94	0.10	637.32
	10/04/2004	649.28	12.05	637.23	11.99	0.06	637.28
	11/01/2004	649.28	12.42	636.86	12.41	0.01	636.87
	12/03/2004	649.28	12.31	636.97	-	-	636.97
	01/04/2005	649.28	10.43	638.85	-	-	638.85
	02/03/2005	649.28	10.56	638.72	10.55	0.01	638.73
	03/01/2005	649.28	10.59	638.69	-	-	638.69
	04/07/2005	649.28	9.25	640.03	-	-	640.03
	05/03/2005	649.28	9.66	639.62	-	-	639.62
	06/01/2005	649.28	10.28	639.00	-	-	639.00
	07/05/2005	649.28	11.43	637.85	-	-	637.85
	08/01/2005	649.28	11.93	637.35	-	-	637.35
	09/07/2005	649.28	12.35	636.93	-	-	636.93
	10/05/2005	649.28	11.64	637.64	-	-	637.64
	11/08/2005	649.28	9.94	639.34	-	-	639.34
	12/09/2005	649.28	8.33	640.95	-	-	640.95
	01/06/2006	649.28	9.12	640.16	-	-	640.16
	02/02/2006	649.28	7.38	641.90	-	-	641.90
	03/21/2006	649.28	7.27	642.01	-	-	642.01
	04/06/2006	649.28	7.92	641.36	-	-	641.36
	05/11/2006	649.28	8.62	640.66	-	-	640.66
	06/12/2006	649.28	9.36	639.92	-	-	639.92
	07/07/2006	649.28	9.64	639.64	-	-	639.64
	09/19/2008	649.28	NR	-	-	NR	-
10/23/2008	649.28	NR	-	-	NR	-	-
12/30/2008	649.28	NR	-	-	NR	-	-
01/28/2009	649.28	NR	-	-	NR	-	-
1795-TP10	12/02/2002	652.44	13.34	639.10	-	-	639.10
	01/06/2003	652.44	12.68	639.76	-	-	639.76
	02/07/2003	652.44	13.17	639.27	-	-	639.27
	09/02/2004	652.44	11.72	640.72	-	-	640.72
	10/04/2004	652.44	11.96	640.48	-	-	640.48
	11/01/2004	652.44	12.43	640.01	-	-	640.01
	12/03/2004	652.44	11.92	640.52	-	-	640.52
	01/04/2005	652.44	10.28	642.16	-	-	642.16
	02/03/2005	652.44	10.56	641.88	-	-	641.88
	03/01/2005	652.44	10.83	641.61	-	-	641.61
	04/07/2005	652.44	9.75	642.69	-	-	642.69
	05/03/2005	652.44	10.10	642.34	-	-	642.34
	06/01/2005	652.44	10.78	641.66	-	-	641.66
	07/05/2005	652.44	11.66	640.78	-	-	640.78
	08/01/2005	652.44	11.89	640.55	-	-	640.55
	09/07/2005	652.44	11.90	640.54	-	-	640.54
	10/05/2005	652.44	11.23	641.21	-	-	641.21
	11/08/2005	652.44	10.02	642.42	-	-	642.42
	12/09/2005	652.44	8.80	643.64	-	-	643.64
	01/06/2006	652.44	9.27	643.17	-	-	643.17
02/02/2006	652.44	7.83	644.61	-	-	644.61	
Well damaged during tree removal activities conducted in March 2006.							
WWII003	09/15/2004	NR	13.17	-	-	-	-
	04/19/2005	NR	11.46	-	-	-	-
	04/25/2006	NR	11.05	-	-	-	-
	10/05/2006	NR	13.53	-	-	-	-
	05/23/2007	NR	10.61	-	-	-	-
WWII004	09/15/2004	NR	19.09	-	-	-	-
	04/19/2005	NR	17.10	-	-	-	-

**Table C-1  
Historical Well Gauging Data Summary**

Area 1795  
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/25/2006	NR	15.95	-	-	-	-
	10/05/2006	NR	19.53	-	-	-	-
	05/23/2007	NR	16.28	-	-	-	-
WWII005	09/15/2004	NR	29.90	-	-	-	-
	04/19/2005	NR	21.35	-	-	-	-
	04/25/2006	NR	19.46	-	-	-	-
	10/05/2006	NR	22.31	-	-	-	-
	05/23/2007	NR	18.87	-	-	-	-
WWII006	09/15/2004	NR	24.53	-	-	-	-
	04/19/2005	NR	23.85	-	-	-	-
	04/25/2006	NR	21.94	-	-	-	-
	10/05/2006	NR	24.86	-	-	-	-
	05/23/2007	NR	21.31	-	-	-	-

NA = Not Available/Not Analyzed  
 ND = Not Detected  
 NR = Not Recorded







Table C-4  
 Site 1795C  
 May - July 2011 O&M Data  
 Fort Drum, NY

Date	Time	System Condition	Sparge Hour Meter	Sparge Hours Operated	Sparge Influent Pressure (psi)	Sparge Influent Temperature (F)	Sparge Effluent Pressure (psi)	Sparge Effluent Temperature (F)	Sparge Differential Pressure (in H <sub>2</sub> O)	Notes
05/02/11	0902	On	26031.8	70.1	5.0	132.0	8.0	78.0	0.25	
05/03/11	0841	On	26051.6	19.8	5.0	120.0	8.5	68.0	0.25	
05/04/11	1214	On	26079.4	27.8	6.0	110.0	9.0	56.0	0.25	
05/05/11	0913	On	26100.4	21.0	5.5	120.0	9.0	62.0	0.25	
05/06/11	1127	On	26126.6	26.2	5.0	132.0	7.5	78.0	0.25	
05/09/11	1029	On	26197.5	70.9	5.0	130.0	7.5	78.0	0.25	
05/10/11	0900	On	26220.1	22.6	5.5	122.0	8.5	70.0	0.25	
05/11/11	0842	On	26243.6	23.5	5.0	130.0	8.0	74.0	0.25	
05/12/11	950	On	26269.0	25.4	5.0	140.0	7.0	84.0	0.25	
05/13/11	1030	On	26293.7	24.7	4.5	140.0	7.0	88.0	0.20	
05/16/11	1300	On	26326.2	32.5	5.0	118.0	8.5	62.0	0.20	
05/17/11	1339	On	26350.8	24.6	5.0	124.0	8.0	77.0	0.20	
05/18/11	1033	On	26371.8	21.0	5.0	138.0	7.0	80.0	0.20	
05/19/11	0900	On	26394.2	22.4	5.0	138.0	7.0	82.0	0.20	
05/20/11	0942	On	26418.9	24.7	5.0	132.0	7.0	80.0	0.20	
05/23/11	1207	On	26493.3	74.4	4.5	150.0	6.0	98.0	0.20	
05/24/11	1212	On	26517.4	24.1	5.0	134.0	7.0	80.0	0.20	
05/25/11	1413	On	26543.4	26.0	5.0	138.0	7.0	86.0	0.25	
05/26/11	1232	On	26563.1	19.7	5.0	140.0	7.0	96.0	0.25	
05/27/11	1321	On	26588.0	24.9	5.0	126.0	7.5	70.0	0.20	
05/31/11	1234	Off	26650.6	62.6	4.0	154.0	6.5	102.0	0.15	System offline due to power outage.
06/01/11	1003	On	26672.1	21.5	4.5	150.0	7.0	94.0	0.15	
06/02/11	1002	On	26696.1	24.0	5.5	126.0	8.5	70.0	0.15	
06/03/11	0921	On	26719.4	23.3	5.5	128.0	8.0	74.0	0.15	
06/06/11	0905	On	26791.2	71.8	5.0	140.0	7.0	86.0	0.20	
06/07/11	534	On	26811.6	20.4	5.0	130.0	8.0	72.0	0.20	
06/08/11	1102	On	26841.1	29.5	4.0	156.0	6.0	100.0	0.20	
06/09/11	0928	On	26863.5	22.4	4.5	152.0	6.0	94.0	0.20	
06/10/11	0944	On	26887.8	24.3	5.0	130.0	8.0	80.0	0.20	
06/13/11	528	On	26955.5	67.7	5.0	128.0	8.0	72.0	0.20	
06/14/11	0619	On	26974.2	18.7	6.0	122.0	8.5	70.0	0.20	
06/15/11	1350	On	27005.7	31.5	5.0	142.0	6.5	90.0	0.25	
06/16/11	1558	On	27031.7	26.0	4.0	156.0	6.0	100.0	0.25	
06/17/11	1117	On	27051.1	19.4	5.0	140.0	7.0	84.0	0.25	
06/20/11	1344	Off	27119.7	68.6	5.0	150.0	6.5	98.0	0.25	System offline due to power outage.
06/21/11	1335	On	27143.5	23.8	4.5	154.0	6.0	102.0	0.20	
06/22/11	0836	On	27162.4	18.9	5.0	138.0	7.0	82.0	0.20	
06/23/11	0830	On	27186.4	24.0	5.0	140.0	7.0	86.0	0.20	
06/24/11	1013	On	27212.1	25.7	5.0	146.0	7.0	90.0	0.20	
06/27/11	0842	On	27282.6	70.5	5.0	138.0	7.0	84.0	0.20	
06/28/11	1336	On	27311.5	28.9	4.0	152.0	6.0	100.0	0.25	
06/29/11	0943	On	27331.7	20.2	5.0	138.0	7.0	86.0	0.20	
06/30/11	1221	On	27358.0	26.3	5.5	144.0	7.0	88.0	0.20	
07/01/11	1124	On	27381.0	23.0	5.0	148.0	7.0	90.0	0.20	
07/05/11	1022	On	27476.0	95.0	5.0	148.0	7.0	90.0	0.20	
07/06/11	0930	On	27499.1	23.1	5.0	152.0	6.5	96.0	0.20	
07/07/11	1342	On	27527.3	28.2	5.0	150.0	7.0	96.0	0.25	
07/08/11	0858	On	27546.6	19.3	5.5	142.0	7.5	88.0	0.20	
07/11/11	1012	On	27617.6	71.0	4.5	158.0	6.0	100.0	0.20	
07/12/11	1002	On	27643.7	26.1	5.0	148.0	7.5	90.0	0.15	
07/13/11	1322	On	27671.0	27.3	5.0	148.0	7.0	94.0	0.15	
07/14/11	0852	On	27690.6	19.6	5.5	138.0	7.5	80.0	0.15	
07/15/11	0826	On	27714.0	23.4	5.5	148.0	7.5	84.0	0.15	
07/18/11	1145	On	27789.4	75.4	5.0	150.0	7.0	92.0	0.20	
07/19/11	1143	On	27813.3	23.9	5.0	148.0	7.0	92.0	0.20	
07/20/11	1000	On	27835.6	22.3	5.0	154.0	6.5	100.0	0.20	
07/21/11	1035	On	27860.1	24.5	5.0	162.0	6.0	106.0	0.20	
07/22/11	1320	On	27882.0	21.9	5.0	158.0	6.0	100.0	0.20	
07/25/11	0637	On	27952.2	70.2	6.0	134.0	8.0	78.0	0.15	
07/26/11	0446	Off	27959.7	7.5	5.0	134.0	8.0	82.0	0.25	System offline due to power outage.
07/27/11	0445	On	27983.7	24.0	5.0	136.0	7.5	80.0	0.20	
07/28/11	0628	On	28009.4	25.7	5.0	134.0	7.5	78.0	0.20	
07/29/11	1323	On	28042.3	32.9	5.0	136.0	7.5	90.0	0.15	System taken offline for sampling event

Notes:  
 NR = Not Recorded.  
 psi = Pressure per Square Inch  
 F = degrees Fahrenheit  
 in H<sub>2</sub>O = inches Water

**APPENDIX D**

**Summary of Well Gauging Results and Operation and Maintenance Data**

**Areas 3805 and 1995**

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
1995-MW42	09/16/2004	NR	24.36	-	-	-	-
	04/20/2005	NR	24.55	-	-	-	-
	04/26/2006	NR	22.40	-	-	-	-
	10/04/2006	NR	42.63	-	-	-	-
	05/25/2007	NR	NR	-	NR	-	-
1995-MW43	09/16/2004	NR	25.78	-	-	-	-
	04/20/2005	NR	25.41	-	-	-	-
	04/26/2006	NR	23.81	-	-	-	-
	10/04/2006	NR	26.02	-	-	-	-
	05/25/2007	NR	NR	-	NR	-	-
1995-MWS1	09/16/2004	NR	21.94	-	-	-	-
	04/20/2005	NR	21.57	-	-	-	-
	04/26/2006	NR	20.02	-	-	-	-
	10/04/2006	NR	22.39	-	-	-	-
	05/25/2007	NR	19.68	-	-	-	-
1995-MWS2	09/16/2004	NR	36.94	-	-	-	-
	04/20/2005	NR	35.81	-	-	-	-
	04/26/2006	NR	36.25	-	-	-	-
	10/04/2006	NR	23.45	-	-	-	-
	05/25/2007	NR	36.01	-	-	-	-
1995-MWS3	09/16/2004	NR	NR	-	NR	-	-
	04/20/2005	NR	30.05	-	-	-	-
	04/26/2006	NR	28.76	-	-	-	-
	10/04/2006	NR	31.18	-	-	-	-
	05/25/2007	NR	28.41	-	-	-	-
1995-MWS6	12/04/2002	669.02	26.92	642.10	-	-	642.10
	01/03/2003	669.02	26.53	642.49	-	-	642.49
	02/03/2003	669.02	26.45	642.57	-	-	642.57
	09/16/2004	669.02	24.84	644.18	-	-	644.18
	04/20/2005	669.02	24.28	644.74	-	-	644.74
	04/26/2006	669.02	22.76	646.26	-	-	646.26
	10/04/2006	669.02	25.08	643.94	-	-	643.94
	05/25/2007	669.02	22.35	646.67	-	-	646.67
1995-MWS9	12/04/2002	659.24	26.61	632.63	26.15	0.46	632.98
	01/03/2003	659.24	25.78	633.46	-	-	633.46
	02/03/2003	659.24	25.72	633.52	-	-	633.52
	05/25/2007	659.24	NR	-	NR	-	-
1995-MWS10	12/04/2002	659.24	26.61	632.63	26.23	0.38	632.92
	01/03/2003	659.24	25.89	633.35	25.79	0.10	633.43
	02/03/2003	659.24	25.75	633.49	-	-	633.49
	05/25/2007	659.24	31.21	628.03	-	-	628.03

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
1995-PZ4	12/04/2002	668.55	26.26	642.29	-	-	642.29
	01/03/2003	668.55	25.84	642.71	-	-	642.71
	02/03/2003	668.55	25.77	642.78	-	-	642.78
	09/16/2004	668.55	24.09	644.46	-	-	644.46
	04/20/2005	668.55	23.60	644.95	-	-	644.95
	04/26/2006	668.55	22.04	646.51	-	-	646.51
	10/04/2006	668.55	24.70	643.85	-	-	643.85
	05/25/2007	668.55	21.61	646.94	-	-	646.94
1995-PZ5	12/04/2002	667.77	26.51	641.26	26.49	0.02	641.28
	01/03/2003	667.77	26.07	641.70	-	-	641.70
	02/03/2003	667.77	25.98	641.79	-	-	641.79
	09/16/2004	667.77	24.34	643.43	-	-	643.43
	04/20/2005	667.77	23.76	644.01	-	-	644.01
	04/26/2006	667.77	22.25	645.52	-	-	645.52
	10/04/2006	667.77	24.74	643.03	-	-	643.03
	05/25/2007	667.77	21.66	646.11	-	-	646.11
1995-PZ6	12/04/2002	664.48	26.42	638.06	-	-	638.06
	01/03/2003	664.48	25.95	638.53	-	-	638.53
	02/03/2003	664.48	25.91	638.57	-	-	638.57
	09/16/2004	664.48	24.07	640.41	-	-	640.41
	04/20/2005	664.48	23.43	641.05	-	-	641.05
	04/26/2006	664.48	22.25	642.23	-	-	642.23
	10/04/2006	664.48	25.50	638.98	-	-	638.98
	05/25/2007	664.48	21.90	642.58	-	-	642.58
1995-PZ8	12/04/2002	669.97	26.81	643.16	-	-	643.16
	01/03/2003	669.97	26.40	643.57	-	-	643.57
	02/03/2003	669.97	26.35	643.62	-	-	643.62
	09/16/2004	669.97	24.60	645.37	-	-	645.37
	04/20/2005	669.97	24.04	645.93	-	-	645.93
	04/26/2006	669.97	22.60	647.37	-	-	647.37
	10/04/2006	669.97	24.92	645.05	-	-	645.05
	05/25/2007	669.97	22.20	647.77	-	-	647.77
1995-PZ13S	12/04/2002	645.09	NR	-	NR	-	-
	01/03/2003	645.09	NR	-	NR	-	-
	02/03/2003	645.09	24.33	620.76	-	-	620.76
1995-RW4	12/04/2002	668.31	26.07	642.24	-	-	642.24
	01/03/2003	668.31	26.07	642.24	-	-	642.24
	02/03/2003	668.31	26.01	642.30	-	-	642.30
	09/16/2004	668.31	24.36	643.95	-	-	643.95
	04/20/2005	668.31	23.81	644.50	-	-	644.50
	04/26/2006	668.31	22.28	646.03	-	-	646.03
	10/04/2006	668.31	24.75	643.56	-	-	643.56
	05/25/2007	668.31	21.70	646.61	-	-	646.61

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
3805-002	12/04/2002	661.50	20.53	640.97	-	-	640.97
	01/03/2003	661.50	20.13	641.37	-	-	641.37
	02/03/2003	661.50	20.20	641.30	-	-	641.30
	09/16/2004	661.50	17.27	644.23	-	-	644.23
	04/20/2005	661.50	15.97	645.53	15.96	0.01	645.54
	04/26/2006	661.50	12.60	648.90	-	-	648.90
	10/04/2006	661.50	18.08	643.42	-	-	643.42
	05/25/2007	661.50	14.95	646.55	-	-	646.55
3805-003	12/04/2002	662.55	21.85	640.70	-	-	640.70
	01/03/2003	662.55	21.50	641.05	-	-	641.05
	02/03/2003	662.55	21.47	641.08	-	-	641.08
	09/16/2004	662.55	18.84	643.71	-	-	643.71
	04/20/2005	662.55	18.07	644.48	-	-	644.48
	04/26/2006	662.55	16.19	646.36	-	-	646.36
	10/04/2006	662.55	19.55	643.00	-	-	643.00
	05/25/2007	662.55	16.61	645.94	-	-	645.94
3805-014	12/04/2002	656.64	18.01	638.63	-	-	638.63
	01/03/2003	656.64	17.63	639.01	-	-	639.01
	02/03/2003	656.64	NR	-	NR	-	-
	09/16/2004	656.64	14.50	642.14	-	-	642.14
	04/20/2005	656.64	13.23	643.41	-	-	643.41
	04/26/2006	656.64	12.62	644.02	-	-	644.02
	10/04/2006	656.64	15.70	640.94	-	-	640.94
	05/25/2007	656.64	12.21	644.43	-	-	644.43
3805-015	09/16/2004	NR	14.73	-	-	-	-
	04/20/2005	NR	13.75	-	-	-	-
	04/26/2006	NR	12.50	-	-	-	-
	10/04/2006	NR	15.64	-	-	-	-
	05/25/2007	NR	12.37	-	-	-	-
3805-016	09/16/2004	NR	16.46	-	-	-	-
	04/20/2005	NR	15.51	-	-	-	-
	04/26/2006	NR	14.53	-	-	-	-
	10/04/2006	NR	17.42	-	-	-	-
	05/25/2007	NR	14.22	-	-	-	-
3805-MW39	09/16/2004	NR	18.18	-	-	-	-
	04/20/2005	NR	15.03	-	-	-	-
	04/26/2006	NR	16.30	-	-	-	-
	10/04/2006	NR	18.90	-	-	-	-
	05/25/2007	NR	16.09	-	-	-	-
3805-MW40	09/16/2004	NR	20.32	-	-	-	-
	04/20/2005	NR	19.72	-	-	-	-
	04/26/2006	NR	18.38	-	-	-	-
	10/04/2006	NR	20.92	-	-	-	-
	05/25/2007	NR	18.13	-	-	-	-

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
3805-MW41	09/16/2004	NR	16.05	-	-	-	-
	04/20/2005	NR	16.10	-	-	-	-
	04/26/2006	NR	14.27	-	-	-	-
	10/04/2006	NR	16.65	-	-	-	-
	05/25/2007	NR	14.11	-	-	-	-
3805-MWD10	09/16/2004	NR	27.47	-	-	-	-
	04/20/2005	NR	26.17	-	-	-	-
	04/26/2006	NR	25.46	-	-	-	-
	10/04/2006	NR	28.14	-	-	-	-
	05/25/2007	NR	25.08	-	-	-	-
3805-MWD13	09/16/2004	NR	30.22	-	-	-	-
	04/20/2005	NR	29.40	-	-	-	-
	04/26/2006	NR	29.02	-	-	-	-
	10/04/2006	NR	30.62	-	-	-	-
	05/25/2007	NR	28.83	-	-	-	-
3805-MWD16	09/16/2004	NR	31.11	-	-	-	-
	04/20/2005	NR	30.61	-	-	-	-
	04/26/2006	NR	30.49	-	-	-	-
	10/04/2006	NR	31.12	-	-	-	-
	05/25/2007	NR	30.40	-	-	-	-
3805-MWD18	09/16/2004	NR	31.87	-	-	-	-
	04/20/2005	NR	31.60	-	-	-	-
	04/26/2006	NR	31.49	-	-	-	-
	10/04/2006	NR	32.41	-	-	-	-
	05/25/2007	NR	31.35	-	-	-	-
3805-MWI6	09/16/2004	NR	16.81	-	-	-	-
	04/20/2005	NR	14.92	-	-	-	-
3805-MWI9	09/16/2004	NR	26.28	-	-	-	-
	04/20/2005	NR	24.96	-	-	-	-
	04/26/2006	NR	24.22	-	-	-	-
	10/04/2006	NR	26.92	-	-	-	-
	05/25/2007	NR	23.86	-	-	-	-
3805-MWI12	09/16/2004	NR	30.10	-	-	-	-
	04/20/2005	NR	29.24	-	-	-	-
	04/26/2006	NR	28.83	-	-	-	-
	10/04/2006	NR	30.53	-	-	-	-
	05/25/2007	NR	28.66	-	-	-	-
3805-MWI15	09/16/2004	NR	29.41	-	-	-	-
	04/20/2005	NR	28.86	-	-	-	-
	04/26/2006	NR	28.71	-	-	-	-
	10/04/2006	NR	29.43	-	-	-	-
	05/25/2007	NR	28.67	-	-	-	-

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
3805-MWI17	09/16/2004	NR	31.89	-	-	-	-
	04/20/2005	NR	31.61	-	-	-	-
	04/26/2006	NR	31.48	-	-	-	-
	10/04/2006	NR	32.36	-	-	-	-
	05/25/2007	NR	31.43	-	-	-	-
3805-MWI20	09/16/2004	NR	15.77	-	-	-	-
	04/20/2005	NR	14.69	-	-	-	-
	04/26/2006	NR	14.66	-	-	-	-
	10/04/2006	NR	16.21	-	-	-	-
	05/25/2007	NR	14.55	-	-	-	-
3805-MWI22	09/16/2004	NR	2.48	-	-	-	-
	04/20/2005	NR	1.68	-	-	-	-
	04/26/2006	NR	6.36	-	-	-	-
	10/04/2006	NR	9.27	-	-	-	-
	05/25/2007	NR	1.84	-	-	-	-
3805-MWS1	09/16/2004	NR	10.95	-	-	-	-
	04/20/2005	NR	9.86	-	-	-	-
	04/26/2006	NR	8.29	-	-	-	-
	10/04/2006	NR	11.58	-	-	-	-
	05/25/2007	NR	8.36	-	-	-	-
3805-MWS2	09/16/2004	NR	10.70	-	-	-	-
	04/20/2005	NR	9.45	-	-	-	-
	04/26/2006	NR	7.96	-	-	-	-
	10/04/2006	NR	11.33	-	-	-	-
	05/25/2007	NR	8.12	-	-	-	-
3805-MWS3	09/16/2004	NR	18.11	-	-	-	-
	04/20/2005	NR	16.86	-	-	-	-
	04/26/2006	NR	16.08	-	-	-	-
	10/04/2006	NR	18.98	-	-	-	-
	05/25/2007	NR	15.71	-	-	-	-
3805-MWS4	12/04/2002	634.98	32.32	602.66	-	-	602.66
	01/03/2003	634.98	32.32	602.66	-	-	602.66
	02/03/2003	634.98	32.39	602.59	-	-	602.59
	09/16/2004	634.98	32.17	602.81	-	-	602.81
	04/20/2005	634.98	31.88	603.10	-	-	603.10
	04/26/2006	634.98	31.74	603.24	-	-	603.24
	10/04/2006	634.98	32.68	602.30	-	-	602.30
	05/25/2007	634.98	31.70	603.28	-	-	603.28
3805-MWS5	12/04/2002	659.24	19.52	639.72	-	-	639.72
	01/03/2003	659.24	19.23	640.01	-	-	640.01
	02/03/2003	659.24	19.33	639.91	-	-	639.91
	09/16/2004	659.24	15.61	643.63	-	-	643.63
	04/20/2005	659.24	NR	-	NR	-	-



**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	04/26/2006	659.24	14.50	644.74	-	-	644.74
	10/04/2006	659.24	16.66	642.58	-	-	642.58
	05/25/2007	659.24	13.64	645.60	-	-	645.60
3805-MWS8	09/16/2004	NR	26.67	-	-	-	-
	04/20/2005	NR	25.34	-	-	-	-
	04/26/2006	NR	25.58	-	-	-	-
	10/04/2006	NR	27.31	-	-	-	-
	05/25/2007	NR	24.23	-	-	-	-
3805-MWS11	12/04/2002	654.66	30.32	624.34	-	-	624.34
	01/03/2003	654.66	30.14	624.52	-	-	624.52
	02/03/2003	654.66	30.22	624.44	-	-	624.44
	09/16/2004	654.66	28.95	625.71	-	-	625.71
	04/20/2005	654.66	28.13	626.53	-	-	626.53
	04/26/2006	654.66	27.69	626.97	-	-	626.97
	10/04/2006	654.66	29.45	625.21	-	-	625.21
	05/25/2007	654.66	27.56	627.10	-	-	627.10
3805-MWS14	09/16/2004	NR	29.02	-	-	-	-
	04/20/2005	NR	28.48	-	-	-	-
	04/26/2006	NR	28.22	-	-	-	-
	10/04/2006	NR	29.06	-	-	-	-
	05/25/2007	NR	28.22	-	-	-	-
3805-MWS19	09/16/2004	NR	14.66	-	-	-	-
	04/20/2005	NR	13.19	-	-	-	-
	04/26/2006	NR	13.26	-	-	-	-
	10/04/2006	NR	15.30	-	-	-	-
	05/25/2007	NR	13.21	-	-	-	-
3805-MWS21	09/16/2004	NR	10.14	-	-	-	-
	04/20/2005	NR	9.76	-	-	-	-
	04/26/2006	NR	9.77	-	-	-	-
	10/04/2006	NR	10.40	-	-	-	-
	05/25/2007	NR	9.83	-	-	-	-
3805-MWS23	12/04/2002	662.18	NR	-	NR	-	-
	01/03/2003	662.18	18.89	643.29	18.45	0.44	643.62
	02/03/2003	662.18	19.35	642.83	18.65	0.70	643.36
	09/16/2004	662.18	16.06	646.12	-	-	646.12
	04/20/2005	662.18	14.02	648.16	-	-	648.16
	04/26/2006	662.18	14.05	648.13	-	-	648.13
	10/04/2006	662.18	16.70	645.48	-	-	645.48
	05/25/2007	662.18	13.81	648.37	-	-	648.37
3805-MWS24	12/04/2002	657.73	23.45	634.28	-	-	634.28
	01/03/2003	657.73	23.25	634.48	-	-	634.48
	02/03/2003	657.73	23.30	634.43	23.29	0.01	634.44
	09/16/2004	657.73	20.08	637.65	-	-	637.65

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/20/2005	657.73	19.13	638.60	-	-	638.60
	04/26/2006	657.73	19.28	638.45	-	-	638.45
	10/04/2006	657.73	19.60	638.13	-	-	638.13
	05/25/2007	657.73	18.57	639.16	-	-	639.16
3805-P1	12/04/2002	658.71	19.09	639.62	-	-	639.62
	01/03/2003	658.71	18.85	639.86	-	-	639.86
	02/03/2003	658.71	18.95	639.76	-	-	639.76
	09/16/2004	658.71	15.50	643.21	-	-	643.21
	04/20/2005	658.71	13.84	644.87	-	-	644.87
	04/26/2006	658.71	13.53	645.18	-	-	645.18
	10/04/2006	658.71	16.50	642.21	-	-	642.21
	05/25/2007	658.71	13.06	645.65	-	-	645.65
3805-P4	12/04/2002	658.21	18.45	639.76	-	-	639.76
	01/03/2003	658.21	18.09	640.12	-	-	640.12
	02/03/2003	658.21	18.16	640.05	-	-	640.05
	09/16/2004	658.21	14.84	643.37	-	-	643.37
	04/20/2005	658.21	13.36	644.85	-	-	644.85
	04/26/2006	658.21	12.89	645.32	-	-	645.32
	10/04/2006	658.21	15.84	642.37	-	-	642.37
	05/25/2007	658.21	12.48	645.73	-	-	645.73
3805-P5	12/04/2002	657.94	16.74	641.20	16.50	0.24	641.38
	01/03/2003	657.94	16.09	641.85	-	-	641.85
	02/03/2003	657.94	16.23	641.71	16.21	0.02	641.73
Well Decommissioned During Source Area Construction							
3805-P7	12/04/2002	660.08	19.85	640.23	-	-	640.23
	01/03/2003	660.08	19.54	640.54	-	-	640.54
	02/03/2003	660.08	21.90	638.18	-	-	638.18
	09/16/2004	660.08	16.34	643.74	-	-	643.74
	04/20/2005	660.08	15.15	644.93	-	-	644.93
	04/26/2006	660.08	14.38	645.70	-	-	645.70
	10/04/2006	660.08	17.33	642.75	-	-	642.75
	05/25/2007	660.08	14.12	645.96	-	-	645.96
3805-PZ1	12/04/2002	659.19	21.62	637.57	-	-	637.57
	01/03/2003	659.19	21.31	637.88	-	-	637.88
	02/03/2003	659.19	21.31	637.88	-	-	637.88
	09/16/2004	659.19	18.52	640.67	-	-	640.67
	04/20/2005	659.19	17.17	642.02	-	-	642.02
	04/26/2006	659.19	16.76	642.43	-	-	642.43
	10/04/2006	659.19	19.24	639.95	-	-	639.95
	05/25/2007	659.19	16.41	642.78	-	-	642.78
3805-PZ2D	09/16/2004	NR	19.21	-	-	-	-
	04/20/2005	NR	17.75	-	-	-	-
	04/26/2006	NR	17.28	-	-	-	-
	10/04/2006	NR	18.90	-	-	-	-
	05/25/2007	NR	16.75	-	-	-	-

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
3805-PZ2I	09/16/2004	NR	18.99	-	-	-	-
	04/20/2005	NR	17.50	-	-	-	-
	04/26/2006	NR	17.08	-	-	-	-
	10/04/2006	NR	18.56	-	-	-	-
	05/25/2007	NR	16.55	-	-	-	-
3805-PZ2S	12/04/2002	657.96	21.88	636.08	-	-	636.08
	01/03/2003	657.96	21.66	636.30	-	-	636.30
	02/03/2003	657.96	21.65	636.31	-	-	636.31
	09/16/2004	657.96	19.21	638.75	-	-	638.75
	04/20/2005	657.96	17.66	640.30	-	-	640.30
	04/26/2006	657.96	17.26	640.70	-	-	640.70
	10/04/2006	657.96	18.95	639.01	-	-	639.01
	05/25/2007	657.96	16.71	641.25	-	-	641.25
3805-PZ3	12/04/2002	655.86	NR	-	NR	-	-
	01/03/2003	655.86	23.11	632.75	-	-	632.75
	02/03/2003	655.86	23.13	632.73	-	-	632.73
	09/16/2004	655.86	20.78	635.08	-	-	635.08
	04/20/2005	655.86	19.26	636.60	-	-	636.60
	04/26/2006	655.86	19.22	636.64	-	-	636.64
	10/04/2006	655.86	21.38	634.48	-	-	634.48
	05/25/2007	655.86	18.83	637.03	-	-	637.03
3805-PZ7	12/04/2002	659.01	22.24	636.77	-	-	636.77
	01/03/2003	659.01	21.91	637.10	-	-	637.10
	02/03/2003	659.01	NR	-	NR	-	-
	09/16/2004	659.01	19.82	639.19	-	-	639.19
	04/20/2005	659.01	18.83	640.18	-	-	640.18
	04/26/2006	659.01	17.97	641.04	-	-	641.04
	10/04/2006	659.01	20.26	638.75	-	-	638.75
	05/25/2007	659.01	17.60	641.41	-	-	641.41
3805-PZ9	12/04/2002	659.08	NR	-	NR	-	-
	01/03/2003	659.08	15.63	643.45	14.80	0.83	644.08
	02/03/2003	659.08	15.78	643.30	15.22	0.56	643.73
	09/16/2004	659.08	14.41	644.67	11.93	2.48	646.55
	04/20/2005	659.08	12.04	647.04	10.69	1.35	648.07
	04/26/2006	659.08	11.26	647.82	10.16	1.10	648.66
	10/04/2006	659.08	14.29	644.79	13.05	1.24	645.73
	05/25/2007	659.08	10.51	648.57	9.95	0.56	649.00
	09/18/2008	659.08	13.14	645.94	-	-	645.94
	10/23/2008	659.08	13.56	645.52	-	-	645.52
	12/31/2008	659.08	12.89	646.19	-	-	646.19
	01/28/2009	659.08	11.99	647.09	-	-	647.09
	02/25/2009	659.08	11.76	647.32	-	-	647.32
	03/27/2009	659.08	11.79	647.29	-	-	647.29
	04/29/2009	659.08	12.23	646.85	Sheen	-	646.85
05/20/2009	659.08	12.87	646.21	-	-	646.21	
06/25/2009	659.08	11.94	647.14	-	-	647.14	

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	07/21/2009	659.08	11.99	647.09	-	-	647.09
	08/25/2009	659.08	12.70	646.38	-	-	646.38
	09/16/2009	659.08	13.55	645.53	-	-	645.53
	10/14/2009	659.08	12.26	646.82	-	-	646.82
	11/10/2009	659.08	12.31	646.77	-	-	646.77
	12/14/2009	659.08	12.37	646.71	-	-	646.71
	01/11/2010	659.08	12.52	646.56	-	-	646.56
	02/10/2010	659.08	12.45	646.63	-	-	646.63
	03/10/2010	659.08	12.51	646.57	-	-	646.57
	04/14/2010	659.08	12.56	646.52	-	-	646.52
	05/12/2010	659.08	12.63	646.45	-	-	646.45
	06/17/2010	659.08	13.17	645.91	-	-	645.91
	07/14/2010	659.08	13.27	645.81	-	-	645.81
	08/09/2010	659.08	13.31	645.77	-	-	645.77
	09/16/2010	659.08	16.44	642.64	-	-	642.64
	10/13/2010	659.08	13.36	645.72	-	-	645.72
	11/16/2010	659.08	13.38	645.70	-	-	645.70
	12/16/2010	659.08	13.56	645.52	-	-	645.52
	01/13/2011	659.08	14.86	644.22	-	-	644.22
	03/14/2011	659.08	13.94	645.14	-	-	645.14
	04/12/2011	659.08	14.93	644.15	-	-	644.15
	05/19/2011	659.08	13.21	645.87	-	-	645.87
	06/20/2011	659.08	13.61	645.47	-	-	645.47
	07/13/2011	659.08	13.98	645.10	-	-	645.10
3805-PZ10	12/04/2002	659.63	NR	-	NR	-	-
	01/03/2003	659.63	16.55	643.08	15.49	1.06	643.89
	02/03/2003	659.63	17.30	642.33	15.71	1.59	643.54
	09/16/2004	659.63	13.74	645.89	13.22	0.52	646.29
	04/20/2005	659.63	11.29	648.34	11.22	0.07	648.39
	04/26/2006	659.63	12.91	646.72	10.82	2.09	648.31
	10/04/2006	659.63	14.96	644.67	13.82	1.14	645.54
	05/25/2007	659.63	13.16	646.47	10.58	2.58	648.43
	09/18/2008	659.63	16.05	643.58	13.05	3.00	645.86
	10/23/2008	659.63	16.25	643.38	13.28	2.97	645.64
	12/31/2008	659.63	12.75	646.88	9.85	2.90	649.08
	01/28/2009	659.63	13.86	645.77	10.96	2.90	647.97
	02/25/2009	659.63	13.55	646.08	10.63	2.92	648.30
	03/27/2009	659.63	11.95	647.68	11.88	0.07	647.73
	04/29/2009	659.63	11.49	648.14	-	-	648.14
	05/20/2009	659.63	11.48	648.15	-	-	648.15
	06/25/2009	659.63	11.31	648.32	-	-	648.32
	07/21/2009	659.63	12.73	646.90	-	-	646.90
	08/25/2009	659.63	12.70	646.93	-	-	646.93
	09/16/2009	659.63	12.23	647.40	-	-	647.40
	10/14/2009	659.63	14.23	645.40	-	-	645.40
	11/10/2009	659.63	14.84	644.79	13.82	1.02	645.81
	12/14/2009	659.63	15.39	644.24	-	-	644.24
	01/11/2010	659.63	15.54	644.09	-	-	644.09
	02/10/2010	659.63	15.58	644.05	-	-	644.05

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	03/10/2010	659.63	16.29	643.34	-	-	643.34
	04/14/2010	659.63	15.78	643.85	-	-	643.85
	05/12/2010	659.63	16.41	643.22	-	-	643.22
	06/17/2010	659.63	16.71	642.92	-	-	642.92
	07/14/2010	659.63	16.86	642.77	-	-	642.77
	08/09/2010	659.63	16.51	643.12	-	-	643.12
	09/16/2010	659.63	13.32	646.31	-	-	646.31
	10/13/2010	659.63	14.84	644.79	-	-	644.79
	11/16/2010	659.63	15.29	644.34	-	-	644.34
	12/16/2010	659.63	14.58	645.05	-	-	645.05
	01/13/2011	659.63	13.53	646.10	-	-	646.10
	03/14/2011	659.63	13.61	646.02	-	-	646.02
	04/12/2011	659.63	13.52	646.11	-	-	646.11
	05/19/2011	659.63	13.42	646.21	-	-	646.21
	06/20/2011	659.63	13.39	646.24	-	-	646.24
07/13/2011	659.63	13.37	646.26	-	-	646.26	
3805-PZ11	12/04/2002	655.38	23.40	631.98	-	-	631.98
	01/03/2003	655.38	23.04	632.34	-	-	632.34
	02/03/2003	655.38	23.05	632.33	-	-	632.33
	09/16/2004	655.38	20.84	634.54	-	-	634.54
	04/20/2005	655.38	19.47	635.91	-	-	635.91
	04/26/2006	655.38	19.26	636.12	-	-	636.12
	10/04/2006	655.38	21.62	633.76	-	-	633.76
	05/25/2007	655.38	18.92	636.46	-	-	636.46
3805-PZ12	04/20/2005	NR	24.63	-	-	-	-
	04/26/2006	NR	24.10	-	-	-	-
	10/04/2006	NR	26.14	-	-	-	-
	05/25/2007	NR	24.06	-	-	-	-
3805-PZ12D	09/16/2004	NR	25.90	-	-	-	-
Well Decommissioned During Source Area Construction							
3805-PZ12S	12/04/2002	655.50	27.30	628.20	26.52	0.78	628.79
	01/03/2003	655.50	27.25	628.25	26.15	1.10	629.09
	02/03/2003	655.50	26.37	629.13	26.18	0.19	629.27
	09/16/2004	655.50	24.83	630.67	-	-	630.67
	04/20/2005	655.50	23.58	631.92	-	-	631.92
	04/26/2006	655.50	23.30	632.20	-	-	632.20
	10/04/2006	655.50	25.30	630.20	-	-	630.20
	05/25/2007	655.50	22.95	632.55	-	-	632.55
3805-PZ13D	09/16/2004	NR	23.70	-	-	-	-
	04/20/2005	NR	22.93	-	-	-	-
	04/26/2006	NR	23.21	-	-	-	-
	10/04/2006	NR	24.12	-	-	-	-
	05/25/2007	NR	22.13	-	-	-	-
3805-PZ13I	09/16/2004	NR	25.07	-	-	-	-
	04/20/2005	NR	25.00	-	-	-	-

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	04/26/2006	NR	24.30	-	-	-	-
	10/04/2006	NR	26.18	-	-	-	-
	05/25/2007	NR	24.26	-	-	-	-
3805-PZ13S	09/16/2004	NR	23.26	-	-	-	-
	04/20/2005	NR	24.44	-	-	-	-
	04/26/2006	NR	21.84	-	-	-	-
	10/04/2006	NR	23.63	-	-	-	-
	05/25/2007	NR	21.73	-	-	-	-
3805-PZ14	12/04/2002	660.39	21.28	639.11	21.08	0.20	639.26
	01/03/2003	660.39	20.98	639.41	20.92	0.06	639.46
	02/03/2003	660.39	21.02	639.37	20.94	0.08	639.43
	09/16/2004	660.39	17.92	642.47	-	-	642.47
	04/20/2005	660.39	16.87	643.52	-	-	643.52
	04/26/2006	660.39	15.91	644.48	-	-	644.48
	10/04/2006	660.39	17.78	642.61	-	-	642.61
	05/25/2007	660.39	15.60	644.79	-	-	644.79
3805-PZ15	12/04/2002	657.61	19.77	637.84	19.34	0.43	638.17
	01/03/2003	657.61	19.61	638.00	19.40	0.21	638.16
	02/03/2003	657.61	19.68	637.93	19.54	0.14	638.04
	09/16/2004	657.61	16.36	641.25	-	-	641.25
	04/20/2005	657.61	15.11	642.50	-	-	642.50
	04/26/2006	657.61	14.44	643.17	-	-	643.17
	10/04/2006	657.61	17.60	640.01	-	-	640.01
	05/25/2007	657.61	13.86	643.75	-	-	643.75
3805-RW1	12/04/2002	658.55	18.39	640.16	18.37	0.02	640.18
	01/03/2003	658.55	17.93	640.62	-	-	640.62
	02/03/2003	658.55	18.05	640.50	-	-	640.50
	09/16/2004	658.55	15.00	643.55	-	-	643.55
	04/20/2005	658.55	13.52	645.03	-	-	645.03
	04/26/2006	658.55	13.04	645.51	-	-	645.51
	10/04/2006	658.55	16.00	642.55	-	-	642.55
	05/25/2007	658.55	12.64	645.91	-	-	645.91
3805-RW2	12/04/2002	658.44	NR	-	NR	-	-
	01/03/2003	658.44	14.80	643.64	14.39	0.41	643.95
	02/03/2003	658.44	15.45	642.99	14.65	0.80	643.60
	09/16/2004	658.44	12.98	645.46	12.98	0.00	645.46
	04/20/2005	658.44	10.21	648.23	10.06	0.15	648.34
	04/26/2006	658.44	10.06	648.38	10.01	0.05	648.42
	10/04/2006	658.44	12.44	646.00	-	-	646.00
	05/25/2007	658.44	9.85	648.59	9.75	0.10	648.67

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
3805-RW3	12/04/2002	656.23	23.98	632.25	-	-	632.25
	01/03/2003	656.23	23.66	632.57	-	-	632.57
	02/03/2003	656.23	23.65	632.58	-	-	632.58
	09/16/2004	656.23	21.35	634.88	-	-	634.88
	04/20/2005	656.23	21.12	635.11	-	-	635.11
	04/26/2006	656.23	19.79	636.44	-	-	636.44
	10/04/2006	656.23	22.07	634.16	-	-	634.16
	05/25/2007	656.23	19.41	636.82	-	-	636.82
3805-RW5	12/04/2002	658.31	19.76	638.55	-	-	638.55
	01/03/2003	658.31	25.17	633.14	-	-	633.14
	02/03/2003	658.31	25.68	632.63	25.40	0.28	632.84
	09/16/2004	658.31	16.99	641.32	16.41	0.58	641.76
	04/20/2005	658.31	15.48	642.83	15.46	0.02	642.85
	04/26/2006	658.31	14.40	643.91	-	-	643.91
	10/04/2006	658.31	17.60	640.71	-	-	640.71
	05/25/2007	658.31	13.87	644.44	-	-	644.44
3805-RW6	12/04/2002	658.93	21.53	637.40	-	-	637.40
	01/03/2003	658.93	21.22	637.71	-	-	637.71
	02/03/2003	658.93	21.24	637.69	-	-	637.69
	09/16/2004	658.93	18.67	640.26	-	-	640.26
	04/20/2005	658.93	17.62	641.31	-	-	641.31
	04/26/2006	658.93	16.79	642.14	-	-	642.14
	10/04/2006	658.93	19.12	639.81	-	-	639.81
	05/25/2007	658.93	16.40	642.53	-	-	642.53
3805-RW7	12/04/2002	659.01	19.08	639.93	19.05	0.03	639.95
	01/03/2003	659.01	18.90	640.11	18.60	0.30	640.34
	02/03/2003	659.01	18.74	640.27	18.72	0.02	640.29
	09/16/2004	659.01	15.51	643.50	-	-	643.50
	04/20/2005	659.01	13.85	645.16	-	-	645.16
	04/26/2006	659.01	13.55	645.46	-	-	645.46
	10/04/2006	659.01	16.45	642.56	-	-	642.56
	05/25/2007	659.01	13.05	645.96	-	-	645.96
3805-RW8	12/04/2002	657.55	23.56	633.99	23.43	0.13	634.09
	01/03/2003	657.55	23.29	634.26	23.27	0.02	634.28
	02/03/2003	657.55	23.31	634.24	-	-	634.24
	09/16/2004	657.55	20.06	637.49	-	-	637.49
	04/20/2005	657.55	19.20	638.35	-	-	638.35
	04/26/2006	657.55	19.31	638.24	-	-	638.24
	10/04/2006	657.55	20.15	637.40	-	-	637.40
	05/25/2007	657.55	18.73	638.82	-	-	638.82
3805-RW9	12/04/2002	656.33	20.78	635.55	20.25	0.53	635.95
	01/03/2003	656.33	27.78	628.55	26.73	1.05	629.35
	02/03/2003	656.33	31.10	625.23	30.21	0.89	625.91
	09/16/2004	656.33	17.82	638.51	17.42	0.40	638.81
	04/20/2005	656.33	15.80	640.53	-	-	640.53

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	04/26/2006	656.33	15.72	640.61	-	-	640.61
	10/04/2006	656.33	17.31	639.02	-	-	639.02
	05/25/2007	656.33	15.13	641.20	-	-	641.20
3805-RW10	12/04/2002	657.51	22.46	635.05	22.36	0.10	635.13
	01/03/2003	657.51	22.13	635.38	-	-	635.38
	02/03/2003	657.51	22.11	635.40	-	-	635.40
	09/16/2004	657.51	20.09	637.42	20.08	0.01	637.43
	04/20/2005	657.51	18.35	639.16	-	-	639.16
	04/26/2006	657.51	18.18	639.33	-	-	639.33
	10/04/2006	657.51	19.75	637.76	-	-	637.76
	05/25/2007	657.51	17.50	640.01	-	-	640.01
3805-RW11	12/04/2002	658.74	21.81	636.93	-	-	636.93
	01/03/2003	658.74	26.02	632.72	26.00	0.02	632.74
	02/03/2003	658.74	26.05	632.69	-	-	632.69
	09/16/2004	658.74	18.75	639.99	-	-	639.99
	04/20/2005	658.74	17.55	641.19	-	-	641.19
	04/26/2006	658.74	17.01	641.73	-	-	641.73
	10/04/2006	658.74	19.05	639.69	-	-	639.69
	05/25/2007	658.74	16.45	642.29	-	-	642.29
3805-RW12	12/04/2002	656.60	20.76	635.84	-	-	635.84
	01/03/2003	656.60	20.60	636.00	-	-	636.00
	02/03/2003	656.60	20.70	635.90	-	-	635.90
	09/16/2004	656.60	17.51	639.09	-	-	639.09
	04/20/2005	656.60	16.54	640.06	-	-	640.06
	04/26/2006	656.60	15.77	640.83	-	-	640.83
	10/04/2006	656.60	19.23	637.37	-	-	637.37
	05/25/2007	656.60	15.39	641.21	-	-	641.21
3805-RW13	12/04/2002	658.30	16.54	641.76	-	-	641.76
	01/03/2003	658.30	16.47	641.83	-	-	641.83
	02/03/2003	658.30	16.51	641.79	-	-	641.79
	09/16/2004	658.30	13.73	644.57	-	-	644.57
	04/20/2005	658.30	11.93	646.37	-	-	646.37
	04/26/2006	658.30	11.76	646.54	-	-	646.54
	10/04/2006	658.30	14.65	643.65	-	-	643.65
	05/25/2007	658.30	11.51	646.79	-	-	646.79
1-1M	04/04/2005	652.46	23.60	628.86	-	-	628.86
	05/16/2005	652.46	23.69	628.77	-	-	628.77
	06/13/2005	652.46	24.08	628.38	-	-	628.38
	07/11/2005	652.46	24.47	627.99	-	-	627.99
	08/22/2005	652.46	24.91	627.55	-	-	627.55
	10/17/2005	652.46	24.04	628.42	-	-	628.42
	01/09/2006	652.46	23.19	629.27	-	-	629.27
	04/03/2006	652.46	22.40	630.06	-	-	630.06
	05/31/2006	652.46	23.20	629.26	-	-	629.26
	06/12/2006	652.46	NR	-	NR	-	-



**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	08/02/2006	652.46	23.99	628.47	-	-	628.47
	09/06/2006	652.46	24.37	628.09	-	-	628.09
	11/01/2006	652.46	24.48	627.98	-	-	627.98
	01/09/2007	652.46	23.20	629.26	-	-	629.26
	05/07/2007	652.46	22.29	630.17	-	-	630.17
	07/24/2007	652.46	23.60	628.86	-	-	628.86
	10/16/2007	652.46	24.79	627.67	-	-	627.67
	01/11/2008	652.46	24.00	628.46	-	-	628.46
	06/24/2008	652.46	22.35	630.11	-	-	630.11
1-2M	04/04/2005	650.47	20.83	629.64	-	-	629.64
	05/16/2005	650.47	20.84	629.63	-	-	629.63
	06/13/2005	650.47	21.19	629.28	-	-	629.28
	07/11/2005	650.47	21.52	628.95	-	-	628.95
	08/22/2005	650.47	21.92	628.55	-	-	628.55
	10/17/2005	650.47	21.18	629.29	-	-	629.29
	01/09/2006	650.47	20.53	629.94	-	-	629.94
	04/03/2006	650.47	19.73	630.74	-	-	630.74
	05/31/2006	650.47	20.58	629.89	-	-	629.89
	06/12/2006	650.47	NR	-	NR	-	-
	08/02/2006	650.47	21.10	629.37	-	-	629.37
	09/06/2006	650.47	21.39	629.08	-	-	629.08
	11/01/2006	650.47	21.62	628.85	-	-	628.85
	01/09/2007	650.47	20.39	630.08	-	-	630.08
	05/07/2007	650.47	19.61	630.86	-	-	630.86
	07/24/2007	650.47	20.73	629.74	-	-	629.74
	10/16/2007	650.47	21.80	628.67	-	-	628.67
	01/11/2008	650.47	21.15	629.32	-	-	629.32
2-1M	04/04/2005	652.34	21.00	631.34	-	-	631.34
	05/16/2005	652.34	21.01	631.33	-	-	631.33
	06/13/2005	652.34	21.47	630.87	-	-	630.87
	07/11/2005	652.34	21.89	630.45	-	-	630.45
	08/22/2005	652.34	22.35	629.99	-	-	629.99
	10/17/2005	652.34	21.44	630.90	-	-	630.90
	01/09/2006	652.34	20.25	632.09	-	-	632.09
	04/03/2006	652.34	19.38	632.96	-	-	632.96
	05/31/2006	652.34	20.33	632.01	-	-	632.01
	06/12/2006	652.34	NR	-	NR	-	-
	08/02/2006	652.34	21.21	631.13	-	-	631.13
	09/06/2006	652.34	21.73	630.61	-	-	630.61
	11/01/2006	652.34	21.94	630.40	-	-	630.40
	01/09/2007	652.34	20.43	631.91	-	-	631.91
	05/07/2007	652.34	19.23	633.11	-	-	633.11
	07/24/2007	652.34	20.89	631.45	-	-	631.45
	10/16/2007	652.34	22.40	629.94	-	-	629.94
	01/11/2008	652.34	21.56	630.78	-	-	630.78
	06/24/2008	652.34	20.60	631.74	-	-	631.74

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Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
2-2M	04/04/2005	652.39	22.67	629.72	-	-	629.72
	05/16/2005	652.39	22.67	629.72	-	-	629.72
	06/13/2005	652.39	23.09	629.30	-	-	629.30
	07/11/2005	652.39	23.51	628.88	-	-	628.88
	08/22/2005	652.39	23.98	628.41	-	-	628.41
	10/17/2005	652.39	23.13	629.26	-	-	629.26
	01/09/2006	652.39	22.03	630.36	-	-	630.36
	04/03/2006	652.39	21.12	631.27	-	-	631.27
	05/31/2006	652.39	22.09	630.30	-	-	630.30
	06/12/2006	652.39	NR	-	NR	-	-
	08/02/2006	652.39	22.93	629.46	-	-	629.46
	09/06/2006	652.39	23.40	628.99	-	-	628.99
	11/01/2006	652.39	23.55	628.84	-	-	628.84
	01/09/2007	652.39	22.13	630.26	-	-	630.26
	05/07/2007	652.39	20.91	631.48	-	-	631.48
	07/24/2007	652.39	22.54	629.85	-	-	629.85
	10/16/2007	652.39	23.91	628.48	-	-	628.48
	01/11/2008	652.39	23.12	629.27	-	-	629.27
06/24/2008	652.39	22.30	630.09	-	-	630.09	
2-3M	04/04/2005	653.05	21.14	631.91	-	-	631.91
	05/16/2005	653.05	21.21	631.84	-	-	631.84
	06/13/2005	653.05	21.69	631.36	-	-	631.36
	07/11/2005	653.05	22.10	630.95	-	-	630.95
	08/22/2005	653.05	22.57	630.48	-	-	630.48
	10/17/2005	653.05	21.59	631.46	-	-	631.46
	01/09/2006	653.05	20.61	632.44	-	-	632.44
	04/03/2006	653.05	19.62	633.43	-	-	633.43
	05/31/2006	653.05	20.51	632.54	-	-	632.54
	06/12/2006	653.05	NR	-	NR	-	-
	08/02/2006	653.05	21.43	631.62	-	-	631.62
	09/06/2006	653.05	21.91	631.14	-	-	631.14
	11/01/2006	653.05	22.15	630.90	-	-	630.90
	01/09/2007	653.05	20.60	632.45	-	-	632.45
	05/07/2007	653.05	19.51	633.54	-	-	633.54
	07/24/2007	653.05	21.07	631.98	-	-	631.98
	10/16/2007	653.05	22.54	630.51	-	-	630.51
	01/11/2008	653.05	21.71	631.34	-	-	631.34
06/24/2008	653.05	20.65	632.40	-	-	632.40	
2-4M	04/04/2005	652.92	22.71	630.21	-	-	630.21
	05/16/2005	652.92	22.74	630.18	-	-	630.18
	06/13/2005	652.92	23.14	629.78	-	-	629.78
	07/11/2005	652.92	23.52	629.40	-	-	629.40
	08/22/2005	652.92	23.96	628.96	-	-	628.96
	10/17/2005	652.92	23.10	629.82	-	-	629.82
	01/09/2006	652.92	22.32	630.60	-	-	630.60
	04/03/2006	652.92	21.37	631.55	-	-	631.55
	05/31/2006	652.92	22.20	630.72	-	-	630.72
	06/12/2006	652.92	NR	-	NR	-	-

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	08/02/2006	652.92	22.99	629.93	-	-	629.93
	09/06/2006	652.92	23.39	629.53	-	-	629.53
	11/01/2006	652.92	23.61	629.31	-	-	629.31
	01/09/2007	652.92	22.23	630.69	-	-	630.69
	05/07/2007	652.92	21.22	631.70	-	-	631.70
	07/24/2007	652.92	22.63	630.29	-	-	630.29
	10/16/2007	652.92	23.89	629.03	-	-	629.03
	01/11/2008	652.92	23.14	629.78	-	-	629.78
	06/24/2008	652.92	22.45	630.47	-	-	630.47
2-5M	04/04/2005	653.87	19.85	634.02	-	-	634.02
	05/16/2005	653.87	19.78	634.09	-	-	634.09
	06/13/2005	653.87	20.33	633.54	-	-	633.54
	07/11/2005	653.87	20.82	633.05	-	-	633.05
	08/22/2005	653.87	21.56	632.31	-	-	632.31
	10/17/2005	653.87	19.83	634.04	-	-	634.04
	01/09/2006	653.87	19.59	634.28	-	-	634.28
	04/03/2006	653.87	18.28	635.59	18.26	0.02	635.61
	05/31/2006	653.87	16.55	637.32	-	-	637.32
	06/12/2006	653.87	NR	-	NR	-	-
	08/02/2006	653.87	20.61	633.26	-	-	633.26
	09/06/2006	653.87	21.62	632.25	-	-	632.25
	11/01/2006	653.87	21.78	632.09	-	-	632.09
	01/09/2007	653.87	19.22	634.65	-	-	634.65
	05/07/2007	653.87	19.42	634.45	-	-	634.45
	07/24/2007	653.87	20.13	633.74	-	-	633.74
	10/16/2007	653.87	21.74	632.13	-	-	632.13
	01/11/2008	653.87	20.05	633.82	-	-	633.82
	06/24/2008	653.87	19.35	634.52	-	-	634.52
2-6M	04/04/2005	651.57	20.96	630.61	-	-	630.61
	05/16/2005	651.57	20.99	630.58	-	-	630.58
	06/13/2005	651.57	21.40	630.17	-	-	630.17
	07/11/2005	651.57	21.75	629.82	-	-	629.82
	08/22/2005	651.57	22.17	629.40	-	-	629.40
	10/17/2005	651.57	21.36	630.21	-	-	630.21
	01/09/2006	651.57	20.74	630.83	-	-	630.83
	04/03/2006	651.57	19.74	631.83	-	-	631.83
	05/31/2006	651.57	20.51	631.06	-	-	631.06
	06/12/2006	651.57	NR	-	NR	-	-
	08/02/2006	651.57	21.26	630.31	-	-	630.31
	09/06/2006	651.57	21.61	629.96	-	-	629.96
	11/01/2006	651.57	21.89	629.68	-	-	629.68
	01/09/2007	651.57	20.47	631.10	-	-	631.10
	05/07/2007	651.57	19.52	632.05	-	-	632.05
	07/24/2007	651.57	20.81	630.76	-	-	630.76
	10/16/2007	651.57	22.12	629.45	-	-	629.45
	01/11/2008	651.57	21.40	630.17	-	-	630.17
	06/24/2008	651.57	20.85	630.72	-	-	630.72

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
2-7M	04/04/2005	652.90	18.33	634.57	-	-	634.57
	05/16/2005	652.90	18.25	634.65	-	-	634.65
	06/13/2005	652.90	19.30	633.60	-	-	633.60
	07/11/2005	652.90	19.85	633.05	-	-	633.05
	08/22/2005	652.90	20.15	632.75	-	-	632.75
	10/17/2005	652.90	19.02	633.88	-	-	633.88
	01/09/2006	652.90	17.60	635.30	-	-	635.30
	04/03/2006	652.90	16.79	636.11	-	-	636.11
	05/31/2006	652.90	17.65	635.25	-	-	635.25
	06/12/2006	652.90	NR	-	NR	-	-
	08/02/2006	652.90	18.47	634.43	-	-	634.43
	09/06/2006	652.90	19.13	633.77	-	-	633.77
	11/01/2006	652.90	19.54	633.36	-	-	633.36
	01/09/2007	652.90	17.79	635.11	-	-	635.11
	05/07/2007	652.90	16.86	636.04	-	-	636.04
	07/24/2007	652.90	18.27	634.63	-	-	634.63
	10/16/2007	652.90	19.66	633.24	-	-	633.24
	01/11/2008	652.90	18.56	634.34	-	-	634.34
06/24/2008	652.90	17.90	635.00	-	-	635.00	
2-8M	04/04/2005	651.28	19.04	632.24	-	-	632.24
	05/16/2005	651.28	19.02	632.26	-	-	632.26
	06/13/2005	651.28	19.42	631.86	-	-	631.86
	07/11/2005	651.28	19.86	631.42	-	-	631.42
	08/22/2005	651.28	20.41	630.87	-	-	630.87
	10/17/2005	651.28	19.46	631.82	-	-	631.82
	01/09/2006	651.28	18.48	632.80	-	-	632.80
	04/03/2006	651.28	17.56	633.72	-	-	633.72
	05/31/2006	651.28	18.39	632.89	-	-	632.89
	06/12/2006	651.28	NR	-	NR	-	-
	08/02/2006	651.28	19.31	631.97	-	-	631.97
	09/06/2006	651.28	19.81	631.47	-	-	631.47
	11/01/2006	651.28	20.23	631.05	-	-	631.05
	01/09/2007	651.28	18.49	632.79	-	-	632.79
	05/07/2007	651.28	17.56	633.72	-	-	633.72
	07/24/2007	651.28	18.85	632.43	-	-	632.43
	10/16/2007	651.28	20.62	630.66	-	-	630.66
	01/11/2008	651.28	19.40	631.88	-	-	631.88
06/24/2008	651.28	19.05	632.23	Sheen	-	632.23	
3-1M	04/04/2005	651.96	17.13	634.83	-	-	634.83
	05/16/2005	651.96	17.43	634.53	-	-	634.53
	06/13/2005	651.96	17.93	634.03	-	-	634.03
	07/11/2005	651.96	18.38	633.58	-	-	633.58
	08/22/2005	651.96	18.84	633.12	-	-	633.12
	10/17/2005	651.96	17.53	634.43	-	-	634.43
	01/09/2006	651.96	15.30	636.66	-	-	636.66
	04/03/2006	651.96	15.48	636.48	-	-	636.48
	05/31/2006	651.96	16.53	635.43	-	-	635.43
	06/12/2006	651.96	NR	-	NR	-	-

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	08/02/2006	651.96	NR	-	NR	-	-
	09/06/2006	651.96	18.06	633.90	-	-	633.90
	11/01/2006	651.96	18.31	633.65	-	-	633.65
	01/09/2007	651.96	16.68	635.28	-	-	635.28
	05/07/2007	651.96	15.37	636.59	-	-	636.59
	07/24/2007	651.96	17.49	634.47	-	-	634.47
	10/16/2007	651.96	18.89	633.07	-	-	633.07
	01/11/2008	651.96	17.74	634.22	-	-	634.22
	06/23/2008	651.96	16.56	635.40	-	-	635.40
	09/18/2008	651.96	17.10	634.86	-	-	634.86
	10/23/2008	651.96	17.37	634.59	-	-	634.59
	12/31/2008	651.96	14.30	637.66	-	-	637.66
	01/28/2009	651.96	14.83	637.13	-	-	637.13
	02/25/2009	651.96	15.03	636.93	-	-	636.93
	03/27/2009	651.96	15.15	636.81	-	-	636.81
	04/29/2009	651.96	15.28	636.68	-	-	636.68
	05/20/2009	651.96	15.48	636.48	-	-	636.48
	06/25/2009	651.96	15.16	636.80	-	-	636.80
	07/21/2009	651.96	15.82	636.14	-	-	636.14
	08/25/2009	651.96	16.55	635.41	-	-	635.41
	09/16/2009	651.96	19.01	632.95	-	-	632.95
	10/14/2009	651.96	17.43	634.53	-	-	634.53
	11/10/2009	651.96	17.83	634.13	-	-	634.13
	12/14/2009	651.96	18.01	633.95	-	-	633.95
	01/11/2010	651.96	18.16	633.80	-	-	633.80
	02/10/2010	651.96	17.21	634.75	-	-	634.75
	03/10/2010	651.96	18.51	633.45	-	-	633.45
	04/14/2010	651.96	18.13	633.83	-	-	633.83
	05/12/2010	651.96	18.63	633.33	-	-	633.33
	06/17/2010	651.96	19.06	632.90	-	-	632.90
	07/14/2010	651.96	19.28	632.68	-	-	632.68
	08/09/2010	651.96	19.23	632.73	-	-	632.73
	09/16/2010	651.96	19.23	632.73	-	-	632.73
	10/13/2010	651.96	18.08	633.88	-	-	633.88
	11/16/2010	651.96	17.71	634.25	-	-	634.25
	12/16/2010	651.96	17.39	634.57	-	-	634.57
	01/13/2011	651.96	17.28	634.68	-	-	634.68
	03/14/2011	651.96	16.22	635.74	-	-	635.74
	04/12/2011	651.96	16.61	635.35	-	-	635.35
	05/19/2011	651.96	15.68	636.28	-	-	636.28
	06/20/2011	651.96	16.01	635.95	-	-	635.95
	07/13/2011	651.96	16.38	635.58	-	-	635.58
3-2M	04/04/2005	652.54	16.84	635.70	-	-	635.70
	05/16/2005	652.54	17.37	635.17	-	-	635.17
	06/13/2005	652.54	17.84	634.70	-	-	634.70
	07/11/2005	652.54	18.26	634.28	-	-	634.28
	08/22/2005	652.54	18.75	633.79	-	-	633.79
	10/17/2005	652.54	17.31	635.23	-	-	635.23
	01/09/2006	652.54	16.09	636.45	-	-	636.45

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	04/03/2006	652.54	15.21	637.33	-	-	637.33
	05/31/2006	652.54	16.23	636.31	-	-	636.31
	06/12/2006	652.54	NR	-	NR	-	-
	08/02/2006	652.54	NR	-	NR	-	-
	09/06/2006	652.54	17.82	634.72	-	-	634.72
	11/01/2006	652.54	18.23	634.31	-	-	634.31
	01/09/2007	652.54	16.46	636.08	-	-	636.08
	05/07/2007	652.54	15.15	637.39	-	-	637.39
	07/24/2007	652.54	17.60	634.94	-	-	634.94
	10/16/2007	652.54	18.88	633.66	-	-	633.66
	01/11/2008	652.54	15.55	636.99	-	-	636.99
	06/23/2008	652.54	16.61	635.93	-	-	635.93
3-3M	04/04/2005	653.49	16.77	636.72	-	-	636.72
	05/16/2005	653.49	17.19	636.30	-	-	636.30
	06/13/2005	653.49	17.65	635.84	-	-	635.84
	07/11/2005	653.49	18.00	635.49	-	-	635.49
	08/22/2005	653.49	18.53	634.96	-	-	634.96
	10/17/2005	653.49	16.90	636.59	-	-	636.59
	01/09/2006	653.49	15.77	637.72	-	-	637.72
	04/03/2006	653.49	15.03	638.46	-	-	638.46
	05/31/2006	653.49	15.98	637.51	-	-	637.51
	06/12/2006	653.49	NR	-	NR	-	-
	08/02/2006	653.49	NR	-	NR	-	-
	09/06/2006	653.49	17.43	636.06	-	-	636.06
	11/01/2006	653.49	18.21	635.28	-	-	635.28
	01/09/2007	653.49	16.45	637.04	-	-	637.04
	05/07/2007	653.49	15.21	638.28	-	-	638.28
	07/24/2007	653.49	17.46	636.03	-	-	636.03
	10/16/2007	653.49	18.54	634.95	-	-	634.95
	01/11/2008	653.49	17.30	636.19	-	-	636.19
	06/23/2008	653.49	16.35	637.14	-	-	637.14
3-4M	04/04/2005	654.29	16.97	637.32	-	-	637.32
	05/16/2005	654.29	17.30	636.99	-	-	636.99
	06/13/2005	654.29	17.74	636.55	-	-	636.55
	07/11/2005	654.29	18.08	636.21	-	-	636.21
	08/22/2005	654.29	18.63	635.66	-	-	635.66
	10/17/2005	654.29	17.12	637.17	-	-	637.17
	01/09/2006	654.29	15.91	638.38	-	-	638.38
	04/03/2006	654.29	15.17	639.12	-	-	639.12
	05/31/2006	654.29	16.10	638.19	-	-	638.19
	06/12/2006	654.29	NR	-	NR	-	-
	08/02/2006	654.29	NR	-	NR	-	-
	09/06/2006	654.29	17.51	636.78	-	-	636.78
	11/01/2006	654.29	18.37	635.92	-	-	635.92
	01/09/2007	654.29	16.72	637.57	-	-	637.57
	05/07/2007	654.29	15.40	638.89	-	-	638.89
	07/24/2007	654.29	17.71	636.58	-	-	636.58
	10/16/2007	654.29	18.64	635.65	-	-	635.65

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/11/2008	654.29	17.46	636.83	-	-	636.83
	06/23/2008	654.29	16.47	637.82	-	-	637.82
3-5M	04/04/2005	654.56	16.00	638.56	-	-	638.56
	05/16/2005	654.56	16.81	637.75	-	-	637.75
	06/13/2005	654.56	17.21	637.35	-	-	637.35
	07/11/2005	654.56	17.58	636.98	-	-	636.98
	08/22/2005	654.56	18.09	636.47	-	-	636.47
	10/17/2005	654.56	16.73	637.83	-	-	637.83
	01/09/2006	654.56	15.49	639.07	-	-	639.07
	04/03/2006	654.56	14.78	639.78	-	-	639.78
	05/31/2006	654.56	15.68	638.88	-	-	638.88
	06/12/2006	654.56	NR	-	NR	-	-
	08/02/2006	654.56	NR	-	NR	-	-
	09/06/2006	654.56	17.05	637.51	-	-	637.51
	11/01/2006	654.56	17.73	636.83	-	-	636.83
	01/09/2007	654.56	16.18	638.38	-	-	638.38
	05/07/2007	654.56	14.93	639.63	-	-	639.63
	07/24/2007	654.56	16.91	637.65	-	-	637.65
	10/16/2007	654.56	18.07	636.49	-	-	636.49
01/11/2008	654.56	16.99	637.57	-	-	637.57	
06/23/2008	654.56	15.98	638.58	-	-	638.58	
4-1M	04/04/2005	651.76	14.17	637.59	-	-	637.59
	05/16/2005	651.76	14.81	636.95	14.80	0.01	636.96
	06/13/2005	651.76	15.26	636.50	-	-	636.50
	07/11/2005	651.76	15.77	635.99	15.72	0.05	636.03
	08/22/2005	651.76	16.38	635.38	16.31	0.07	635.43
	10/17/2005	651.76	13.96	637.80	-	-	637.80
	01/09/2006	651.76	13.29	638.47	-	-	638.47
	04/03/2006	651.76	12.49	639.27	-	-	639.27
	05/31/2006	651.76	13.55	638.21	-	-	638.21
	06/12/2006	651.76	NR	-	NR	-	-
	08/02/2006	651.76	NR	-	NR	-	-
	09/06/2006	651.76	15.16	636.60	-	-	636.60
	11/01/2006	651.76	15.18	636.58	-	-	636.58
	01/09/2007	651.76	13.65	638.11	-	-	638.11
	05/07/2007	651.76	12.32	639.44	-	-	639.44
	07/24/2007	651.76	14.75	637.01	-	-	637.01
	10/16/2007	651.76	16.35	635.41	-	-	635.41
	01/11/2008	651.76	14.43	637.33	-	-	637.33
	06/23/2008	651.76	13.43	638.33	-	-	638.33
	09/18/2008	651.76	12.75	639.01	-	-	639.01
	10/23/2008	651.76	14.33	637.43	-	-	637.43
12/31/2008	651.76	10.46	641.30	-	-	641.30	
01/28/2009	651.76	11.36	640.40	-	-	640.40	
02/25/2009	651.76	11.82	639.94	-	-	639.94	
03/27/2009	651.76	12.05	639.71	-	-	639.71	
04/29/2009	651.76	12.09	639.67	-	-	639.67	
05/20/2009	651.76	12.16	639.60	Sheen	-	639.60	

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	06/25/2009	651.76	11.86	639.90	-	-	639.90
	07/21/2009	651.76	12.66	639.10	-	-	639.10
	08/25/2009	651.76	13.30	638.46	-	-	638.46
	09/16/2009	651.76	17.92	633.84	-	-	633.84
	10/14/2009	651.76	14.43	637.33	-	-	637.33
	11/10/2009	651.76	14.76	637.00	-	-	637.00
	12/14/2009	651.76	15.13	636.63	-	-	636.63
	01/11/2010	651.76	15.21	636.55	-	-	636.55
	02/10/2010	651.76	14.87	636.89	-	-	636.89
	03/10/2010	651.76	15.14	636.62	-	-	636.62
	04/14/2010	651.76	15.36	636.40	-	-	636.40
	05/12/2010	651.76	15.96	635.80	-	-	635.80
	06/17/2010	651.76	16.42	635.34	-	-	635.34
	07/14/2010	651.76	16.62	635.14	-	-	635.14
	08/09/2010	651.76	16.34	635.42	-	-	635.42
	09/16/2010	651.76	16.30	635.46	-	-	635.46
	10/13/2010	651.76	14.76	637.00	-	-	637.00
	11/16/2010	651.76	15.01	636.75	-	-	636.75
	12/16/2010	651.76	14.38	637.38	-	-	637.38
	01/13/2011	651.76	14.31	637.45	-	-	637.45
	03/14/2011	651.76	12.26	639.50	-	-	639.50
	04/12/2011	651.76	13.79	637.97	-	-	637.97
	05/19/2011	651.76	12.67	639.09	-	-	639.09
	06/20/2011	651.76	12.99	638.77	-	-	638.77
	07/13/2011	651.76	13.29	638.47	-	-	638.47
4-2M	04/04/2005	652.06	15.54	636.52	-	-	636.52
	05/16/2005	652.06	16.06	636.00	-	-	636.00
	06/13/2005	652.06	16.54	635.52	-	-	635.52
	07/11/2005	652.06	16.90	635.16	-	-	635.16
	08/22/2005	652.06	17.43	634.63	-	-	634.63
	10/17/2005	652.06	15.63	636.43	-	-	636.43
	01/09/2006	652.06	14.64	637.42	-	-	637.42
	04/03/2006	652.06	13.83	638.23	13.77	0.06	638.28
	05/31/2006	652.06	14.83	637.23	-	-	637.23
	06/12/2006	652.06	NR	-	NR	-	-
	08/02/2006	652.06	NR	-	NR	-	-
	09/06/2006	652.06	16.40	635.66	-	-	635.66
	11/01/2006	652.06	16.72	635.34	-	-	635.34
	01/09/2007	652.06	15.04	637.02	-	-	637.02
	05/07/2007	652.06	13.76	638.30	-	-	638.30
	07/24/2007	652.06	16.19	635.87	-	-	635.87
	10/16/2007	652.06	17.47	634.59	-	-	634.59
	01/11/2008	652.06	16.07	635.99	-	-	635.99
	06/23/2008	652.06	14.95	637.11	-	-	637.11
4-3M	04/04/2005	652.91	14.73	638.18	-	-	638.18
	05/16/2005	652.91	14.18	638.73	-	-	638.73
	06/13/2005	652.91	15.64	637.27	-	-	637.27
	07/11/2005	652.91	16.02	636.89	-	-	636.89



**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	08/22/2005	652.91	16.58	636.33	-	-	636.33
	10/17/2005	652.91	14.77	638.14	-	-	638.14
	01/09/2006	652.91	13.70	639.21	-	-	639.21
	04/03/2006	652.91	12.82	640.09	-	-	640.09
	05/31/2006	652.91	13.83	639.08	-	-	639.08
	06/12/2006	652.91	NR	-	NR	-	-
	08/02/2006	652.91	NR	-	NR	-	-
	09/06/2006	652.91	15.45	637.46	-	-	637.46
	11/01/2006	652.91	15.91	637.00	-	-	637.00
	01/09/2007	652.91	14.12	638.79	-	-	638.79
	05/07/2007	652.91	12.82	640.09	-	-	640.09
	07/24/2007	652.91	15.11	637.80	-	-	637.80
	10/16/2007	652.91	16.73	636.18	-	-	636.18
	01/11/2008	652.91	15.30	637.61	-	-	637.61
	06/23/2008	652.91	13.93	638.98	-	-	638.98
4-4M	04/04/2005	652.96	15.51	637.45	-	-	637.45
	05/16/2005	652.96	16.00	636.96	-	-	636.96
	06/13/2005	652.96	16.43	636.53	-	-	636.53
	07/11/2005	652.96	16.80	636.16	-	-	636.16
	08/22/2005	652.96	17.37	635.59	-	-	635.59
	10/17/2005	652.96	15.65	637.31	-	-	637.31
	01/09/2006	652.96	14.54	638.42	-	-	638.42
	04/03/2006	652.96	13.74	639.22	-	-	639.22
	05/31/2006	652.96	14.74	638.22	-	-	638.22
	06/12/2006	652.96	NR	-	NR	-	-
	08/02/2006	652.96	NR	-	NR	-	-
	09/06/2006	652.96	16.24	636.72	-	-	636.72
	11/01/2006	652.96	16.91	636.05	-	-	636.05
	01/09/2007	652.96	15.15	637.81	-	-	637.81
	05/07/2007	652.96	13.86	639.10	-	-	639.10
	07/24/2007	652.96	16.20	636.76	-	-	636.76
	10/16/2007	652.96	17.50	635.46	-	-	635.46
	01/11/2008	652.96	16.09	636.87	-	-	636.87
	06/23/2008	652.96	14.98	637.98	-	-	637.98
	09/18/2008	652.96	15.17	637.79	-	-	637.79
	10/23/2008	652.96	15.35	637.61	-	-	637.61
	12/31/2008	652.96	12.55	640.41	-	-	640.41
	01/28/2009	652.96	13.05	639.91	-	-	639.91
	02/25/2009	652.96	13.41	639.55	-	-	639.55
	03/27/2009	652.96	13.52	639.44	-	-	639.44
	04/29/2009	652.96	13.41	639.55	-	-	639.55
	05/20/2009	652.96	13.61	639.35	-	-	639.35
	06/25/2009	652.96	13.16	639.80	-	-	639.80
	07/21/2009	652.96	13.99	638.97	-	-	638.97
	08/25/2009	652.96	13.60	639.36	-	-	639.36
	09/16/2009	652.96	18.25	634.71	-	-	634.71
	10/14/2009	652.96	15.49	637.47	-	-	637.47
	11/10/2009	652.96	15.96	637.00	-	-	637.00
	12/14/2009	652.96	16.21	636.75	-	-	636.75

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	01/11/2010	652.96	16.41	636.55	-	-	636.55
	02/10/2010	652.96	16.16	636.80	-	-	636.80
	03/10/2010	652.96	16.77	636.19	-	-	636.19
	04/14/2010	652.96	16.41	636.55	-	-	636.55
	05/12/2010	652.96	16.98	635.98	-	-	635.98
	06/17/2010	652.96	17.42	635.54	-	-	635.54
	07/14/2010	652.96	16.59	636.37	-	-	636.37
	08/09/2010	652.96	16.44	636.52	-	-	636.52
	09/16/2010	652.96	17.31	635.65	-	-	635.65
	10/13/2010	652.96	16.11	636.85	-	-	636.85
	11/16/2010	652.96	16.03	636.93	-	-	636.93
	12/16/2010	652.96	15.59	637.37	-	-	637.37
	01/13/2011	652.96	15.48	637.48	-	-	637.48
	03/14/2011	652.96	14.80	638.16	-	-	638.16
	04/12/2011	652.96	15.41	637.55	-	-	637.55
	05/19/2011	652.96	12.91	640.05	-	-	640.05
	06/20/2011	652.96	14.20	638.76	-	-	638.76
	07/13/2011	652.96	14.61	638.35	-	-	638.35
4-5M	04/04/2005	653.79	14.80	638.99	14.73	0.07	639.04
	05/16/2005	653.79	15.20	638.59	-	-	638.59
	06/13/2005	653.79	15.60	638.19	-	-	638.19
	07/11/2005	653.79	16.03	637.76	-	-	637.76
	08/22/2005	653.79	16.59	637.20	-	-	637.20
	10/17/2005	653.79	14.72	639.07	-	-	639.07
	01/09/2006	653.79	13.78	640.01	13.65	0.13	640.11
	04/03/2006	653.79	12.76	641.03	-	-	641.03
	05/31/2006	653.79	13.75	640.04	13.72	0.03	640.06
	06/12/2006	653.79	NR	-	NR	-	-
	08/02/2006	653.79	NR	-	NR	-	-
	09/06/2006	653.79	15.35	638.44	15.28	0.07	638.49
	11/01/2006	653.79	15.82	637.97	-	-	637.97
	01/09/2007	653.79	14.02	639.77	-	-	639.77
	05/07/2007	653.79	12.85	640.94	-	-	640.94
	07/24/2007	653.79	14.69	639.10	-	-	639.10
	10/16/2007	653.79	16.52	637.27	-	-	637.27
	01/11/2008	653.79	14.28	639.51	-	-	639.51
	06/23/2008	653.79	13.78	640.01	-	-	640.01
4-6M	04/04/2005	653.68	15.48	638.20	-	-	638.20
	05/16/2005	653.68	16.02	637.66	-	-	637.66
	06/13/2005	653.68	16.46	637.22	-	-	637.22
	07/11/2005	653.68	16.82	636.86	-	-	636.86
	08/22/2005	653.68	17.37	636.31	-	-	636.31
	10/17/2005	653.68	15.73	637.95	-	-	637.95
	01/09/2006	653.68	14.53	639.15	-	-	639.15
	04/03/2006	653.68	13.69	639.99	-	-	639.99
	05/31/2006	653.68	14.69	638.99	-	-	638.99
	06/12/2006	653.68	NR	-	NR	-	-
	08/02/2006	653.68	NR	-	NR	-	-

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	09/06/2006	653.68	16.21	637.47	-	-	637.47
	11/01/2006	653.68	17.00	636.68	-	-	636.68
	01/09/2007	653.68	15.30	638.38	-	-	638.38
	05/07/2007	653.68	13.97	639.71	-	-	639.71
	07/24/2007	653.68	16.29	637.39	-	-	637.39
	10/16/2007	653.68	17.57	636.11	-	-	636.11
	01/11/2008	653.68	16.18	637.50	-	-	637.50
	06/23/2008	653.68	15.06	638.62	-	-	638.62
4-7M	04/04/2005	654.63	15.26	639.37	-	-	639.37
	05/16/2005	654.63	15.60	639.03	-	-	639.03
	06/13/2005	654.63	15.98	638.65	-	-	638.65
	07/11/2005	654.63	16.36	638.27	-	-	638.27
	08/22/2005	654.63	16.90	637.73	-	-	637.73
	10/17/2005	654.63	15.26	639.37	-	-	639.37
	01/09/2006	654.63	14.11	640.52	-	-	640.52
	04/03/2006	654.63	13.30	641.33	-	-	641.33
	05/31/2006	654.63	14.24	640.39	-	-	640.39
	06/12/2006	654.63	NR	-	NR	-	-
	08/02/2006	654.63	NR	-	NR	-	-
	09/06/2006	654.63	15.74	638.89	-	-	638.89
	11/01/2006	654.63	16.43	638.20	-	-	638.20
	01/09/2007	654.63	14.65	639.98	-	-	639.98
	05/07/2007	654.63	13.35	641.28	-	-	641.28
	07/24/2007	654.63	15.51	639.12	-	-	639.12
	10/16/2007	654.63	17.02	637.61	-	-	637.61
	01/11/2008	654.63	15.76	638.87	-	-	638.87
	06/23/2008	654.63	14.48	640.15	-	-	640.15
4-8M	04/04/2005	654.69	15.94	638.75	-	-	638.75
	05/16/2005	654.69	16.23	638.46	-	-	638.46
	06/13/2005	654.69	16.63	638.06	-	-	638.06
	07/11/2005	654.69	16.99	637.70	-	-	637.70
	08/22/2005	654.69	17.55	637.14	-	-	637.14
	10/17/2005	654.69	16.05	638.64	-	-	638.64
	01/09/2006	654.69	14.83	639.86	-	-	639.86
	04/03/2006	654.69	14.07	640.62	-	-	640.62
	05/31/2006	654.69	14.98	639.71	-	-	639.71
	06/12/2006	654.69	NR	-	NR	-	-
	08/02/2006	654.69	NR	-	NR	-	-
	09/06/2006	654.69	16.43	638.26	-	-	638.26
	11/01/2006	654.69	17.16	637.53	-	-	637.53
	01/09/2007	654.69	15.53	639.16	-	-	639.16
	05/07/2007	654.69	14.18	640.51	-	-	640.51
	07/24/2007	654.69	16.47	638.22	-	-	638.22
	10/16/2007	654.69	17.64	637.05	-	-	637.05
	01/11/2008	654.69	15.44	639.25	-	-	639.25
	06/23/2008	654.69	15.35	639.34	-	-	639.34

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
4-9M	04/04/2005	655.35	15.19	640.16	-	-	640.16
	05/16/2005	655.35	15.34	640.01	-	-	640.01
	06/13/2005	655.35	15.70	639.65	-	-	639.65
	07/11/2005	655.35	16.10	639.25	-	-	639.25
	08/22/2005	655.35	16.63	638.72	-	-	638.72
	10/17/2005	655.35	15.07	640.28	-	-	640.28
	01/09/2006	655.35	13.98	641.37	-	-	641.37
	04/03/2006	655.35	13.18	642.17	-	-	642.17
	05/31/2006	655.35	14.10	641.25	-	-	641.25
	06/12/2006	655.35	NR	-	NR	-	-
	08/02/2006	655.35	NR	-	NR	-	-
	09/06/2006	655.35	15.56	639.79	-	-	639.79
	11/01/2006	655.35	16.04	639.31	-	-	639.31
	01/09/2007	655.35	14.35	641.00	-	-	641.00
	05/07/2007	655.35	13.17	642.18	-	-	642.18
	07/24/2007	655.35	14.98	640.37	-	-	640.37
	10/16/2007	655.35	16.63	638.72	-	-	638.72
	01/11/2008	655.35	15.56	639.79	-	-	639.79
	06/23/2008	655.35	14.21	641.14	-	-	641.14
4-10M	04/04/2005	655.53	16.09	639.44	-	-	639.44
	05/16/2005	655.53	16.21	639.32	-	-	639.32
	06/13/2005	655.53	16.59	638.94	-	-	638.94
	07/11/2005	655.53	16.99	638.54	-	-	638.54
	08/22/2005	655.53	17.50	638.03	-	-	638.03
	10/17/2005	655.53	16.17	639.36	-	-	639.36
	01/09/2006	655.53	14.59	640.94	-	-	640.94
	04/03/2006	655.53	14.14	641.39	-	-	641.39
	05/31/2006	655.53	15.05	640.48	-	-	640.48
	06/12/2006	655.53	NR	-	NR	-	-
	08/02/2006	655.53	NR	-	NR	-	-
	09/06/2006	655.53	16.49	639.04	-	-	639.04
	11/01/2006	655.53	17.01	638.52	-	-	638.52
	01/09/2007	655.53	15.39	640.14	-	-	640.14
	05/07/2007	655.53	14.15	641.38	-	-	641.38
	07/24/2007	655.53	16.03	639.50	-	-	639.50
	10/16/2007	655.53	17.49	638.04	-	-	638.04
	01/11/2008	655.53	16.48	639.05	-	-	639.05
	06/23/2008	655.53	15.23	640.30	-	-	640.30
	09/18/2008	655.53	15.60	639.93	-	-	639.93
	10/23/2008	655.53	16.91	638.62	-	-	638.62
	12/31/2008	655.53	12.67	642.86	-	-	642.86
	01/28/2009	655.53	13.27	642.26	-	-	642.26
	02/25/2009	655.53	13.20	642.33	-	-	642.33
	03/27/2009	655.53	13.46	642.07	-	-	642.07
	04/29/2009	655.53	13.73	641.80	-	-	641.80
	05/20/2009	655.53	13.84	641.69	-	-	641.69
06/25/2009	655.53	13.36	642.17	-	-	642.17	
07/21/2009	655.53	14.14	641.39	-	-	641.39	
08/25/2009	655.53	14.75	640.78	-	-	640.78	

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	09/16/2009	655.53	19.74	635.79	-	-	635.79
	10/14/2009	655.53	15.72	639.81	-	-	639.81
	11/10/2009	655.53	16.09	639.44	-	-	639.44
	12/14/2009	655.53	16.41	639.12	-	-	639.12
	01/11/2010	655.53	16.49	639.04	-	-	639.04
	02/10/2010	655.53	16.34	639.19	-	-	639.19
	03/10/2010	655.53	16.99	638.54	-	-	638.54
	04/14/2010	655.53	16.67	638.86	-	-	638.86
	05/12/2010	655.53	17.07	638.46	-	-	638.46
	06/17/2010	655.53	17.61	637.92	-	-	637.92
	07/14/2010	655.53	17.86	637.67	-	-	637.67
	08/09/2010	655.53	16.67	638.86	-	-	638.86
	09/16/2010	655.53	15.49	640.04	-	-	640.04
	10/13/2010	655.53	16.32	639.21	-	-	639.21
	11/16/2010	655.53	16.24	639.29	-	-	639.29
	12/16/2010	655.53	15.78	639.75	-	-	639.75
	01/13/2011	655.53	15.46	640.07	-	-	640.07
	03/14/2011	655.53	15.32	640.21	-	-	640.21
	04/12/2011	655.53	15.57	639.96	-	-	639.96
	05/19/2011	655.53	14.39	641.14	-	-	641.14
	06/20/2011	655.53	14.40	641.13	-	-	641.13
	07/13/2011	655.53	12.82	642.71	-	-	642.71
4-11M	04/04/2005	656.27	15.33	640.94	-	-	640.94
	05/16/2005	656.27	15.24	641.03	-	-	641.03
	06/13/2005	656.27	15.64	640.63	-	-	640.63
	07/11/2005	656.27	16.10	640.17	-	-	640.17
	08/22/2005	656.27	16.61	639.66	-	-	639.66
	10/17/2005	656.27	15.06	641.21	-	-	641.21
	01/09/2006	656.27	13.98	642.29	-	-	642.29
	04/03/2006	656.27	13.17	643.10	-	-	643.10
	05/31/2006	656.27	14.07	642.20	-	-	642.20
	06/12/2006	656.27	NR	-	NR	-	-
	08/02/2006	656.27	NR	-	NR	-	-
	09/06/2006	656.27	15.56	640.71	-	-	640.71
	11/01/2006	656.27	15.91	640.36	-	-	640.36
	01/09/2007	656.27	14.18	642.09	-	-	642.09
	05/07/2007	656.27	13.05	643.22	-	-	643.22
	07/24/2007	656.27	14.73	641.54	-	-	641.54
	10/16/2007	656.27	16.48	639.79	-	-	639.79
	01/11/2008	656.27	15.42	640.85	-	-	640.85
	06/23/2008	656.27	14.23	642.04	-	-	642.04
	09/18/2008	656.27	14.12	642.15	-	-	642.15
	10/23/2008	656.27	14.85	641.42	-	-	641.42
	12/31/2008	656.27	11.40	644.87	-	-	644.87
	01/28/2009	656.27	12.08	644.19	-	-	644.19
	02/25/2009	656.27	12.60	643.67	-	-	643.67
	03/27/2009	656.27	12.83	643.44	-	-	643.44
	04/29/2009	656.27	12.62	643.65	-	-	643.65
	05/20/2009	656.27	12.76	643.51	-	-	643.51

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	06/25/2009	656.27	12.15	644.12	-	-	644.12
	07/21/2009	656.27	13.01	643.26	-	-	643.26
	08/25/2009	656.27	13.60	642.67	-	-	642.67
	09/16/2009	656.27	18.96	637.31	-	-	637.31
	10/14/2009	656.27	14.69	641.58	-	-	641.58
	11/10/2009	656.27	14.99	641.28	-	-	641.28
	12/14/2009	656.27	15.26	641.01	-	-	641.01
	01/11/2010	656.27	15.32	640.95	-	-	640.95
	02/10/2010	656.27	15.21	641.06	-	-	641.06
	03/10/2010	656.27	16.01	640.26	-	-	640.26
	04/14/2010	656.27	15.56	640.71	-	-	640.71
	05/12/2010	656.27	16.13	640.14	-	-	640.14
	06/17/2010	656.27	16.58	639.69	-	-	639.69
	07/14/2010	656.27	16.92	639.35	-	-	639.35
	08/09/2010	656.27	16.78	639.49	-	-	639.49
	09/16/2010	656.27	16.32	639.95	-	-	639.95
	10/13/2010	656.27	15.14	641.13	-	-	641.13
	11/16/2010	656.27	15.08	641.19	-	-	641.19
	12/16/2010	656.27	14.61	641.66	-	-	641.66
	01/13/2011	656.27	14.46	641.81	-	-	641.81
	03/14/2011	656.27	14.31	641.96	-	-	641.96
	04/12/2011	656.27	14.54	641.73	-	-	641.73
	05/19/2011	656.27	13.32	642.95	-	-	642.95
	06/20/2011	656.27	13.33	642.94	-	-	642.94
	07/13/2011	656.27	13.74	642.53	-	-	642.53
5-1M	04/04/2005	653.01	13.16	639.85	-	-	639.85
	05/16/2005	653.01	13.51	639.50	-	-	639.50
	06/13/2005	653.01	13.95	639.06	-	-	639.06
	07/11/2005	653.01	14.33	638.68	-	-	638.68
	08/22/2005	653.01	14.84	638.17	-	-	638.17
	10/17/2005	653.01	12.98	640.03	-	-	640.03
	01/09/2006	653.01	12.15	640.86	-	-	640.86
	04/03/2006	653.01	11.22	641.79	-	-	641.79
	05/31/2006	653.01	12.22	640.79	-	-	640.79
	06/12/2006	653.01	NR	-	NR	-	-
	08/02/2006	653.01	13.15	639.86	-	-	639.86
	09/06/2006	653.01	13.96	639.05	-	-	639.05
	11/01/2006	653.01	13.92	639.09	-	-	639.09
	01/09/2007	653.01	12.35	640.66	-	-	640.66
	05/07/2007	653.01	11.04	641.97	-	-	641.97
	07/24/2007	653.01	13.01	640.00	-	-	640.00
	10/16/2007	653.01	14.91	638.10	-	-	638.10
	01/11/2008	653.01	13.51	639.50	-	-	639.50
	06/23/2008	653.01	11.96	641.05	-	-	641.05
	09/18/2008	653.01	12.75	640.26	-	-	640.26
	10/23/2008	653.01	13.25	639.76	-	-	639.76
	12/31/2008	653.01	9.58	643.43	-	-	643.43
	01/28/2009	653.01	10.00	643.01	-	-	643.01
	02/25/2009	653.01	10.22	642.79	-	-	642.79

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	03/27/2009	653.01	10.22	642.79	-	-	642.79
	04/29/2009	653.01	10.64	642.37	-	-	642.37
	05/20/2009	653.01	10.73	642.28	-	-	642.28
	06/25/2009	653.01	10.49	642.52	-	-	642.52
	07/21/2009	653.01	11.29	641.72	-	-	641.72
	08/25/2009	653.01	11.92	641.09	-	-	641.09
	09/16/2009	653.01	9.65	643.36	-	-	643.36
	10/14/2009	653.01	13.11	639.90	-	-	639.90
	11/10/2009	653.01	13.52	639.49	-	-	639.49
	12/14/2009	653.01	13.91	639.10	-	-	639.10
	01/11/2010	653.01	14.09	638.92	-	-	638.92
	02/10/2010	653.01	13.96	639.05	-	-	639.05
	03/10/2010	653.01	14.69	638.32	-	-	638.32
	04/14/2010	653.01	14.29	638.72	-	-	638.72
	05/12/2010	653.01	14.89	638.12	-	-	638.12
	06/17/2010	653.01	15.26	637.75	-	-	637.75
	07/14/2010	653.01	15.46	637.55	-	-	637.55
	08/09/2010	653.01	15.17	637.84	-	-	637.84
	09/16/2010	653.01	14.24	638.77	-	-	638.77
	10/13/2010	653.01	13.78	639.23	-	-	639.23
	11/16/2010	653.01	13.83	639.18	-	-	639.18
	12/16/2010	653.01	13.26	639.75	-	-	639.75
	01/13/2011	653.01	13.18	639.83	-	-	639.83
	03/14/2011	653.01	12.34	640.67	-	-	640.67
	04/12/2011	653.01	12.77	640.24	-	-	640.24
	05/19/2011	653.01	12.29	640.72	-	-	640.72
	06/20/2011	653.01	11.61	641.40	-	-	641.40
	07/13/2011	653.01	12.23	640.78	-	-	640.78
5-2M	04/04/2005	653.03	14.05	638.98	-	-	638.98
	05/16/2005	653.03	14.49	638.54	-	-	638.54
	06/13/2005	653.03	14.90	638.13	-	-	638.13
	07/11/2005	653.03	15.32	637.71	-	-	637.71
	08/22/2005	653.03	15.83	637.20	-	-	637.20
	10/17/2005	653.03	14.08	638.95	-	-	638.95
	01/09/2006	653.03	12.99	640.04	-	-	640.04
	04/03/2006	653.03	12.19	640.84	-	-	640.84
	05/31/2006	653.03	13.13	639.90	-	-	639.90
	06/12/2006	653.03	NR	-	NR	-	-
	08/02/2006	653.03	13.98	639.05	-	-	639.05
	09/06/2006	653.03	14.76	638.27	-	-	638.27
	11/01/2006	653.03	15.04	637.99	-	-	637.99
	01/09/2007	653.03	13.30	639.73	-	-	639.73
	05/07/2007	653.03	11.99	641.04	-	-	641.04
	07/24/2007	653.03	14.11	638.92	-	-	638.92
	10/16/2007	653.03	15.90	637.13	-	-	637.13
	01/11/2008	653.03	14.51	638.52	-	-	638.52
	06/23/2008	653.03	13.02	640.01	-	-	640.01

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
5-3M	04/04/2005	653.85	13.56	640.29	-	-	640.29
	05/16/2005	653.85	13.91	639.94	-	-	639.94
	06/13/2005	653.85	14.26	639.59	-	-	639.59
	07/11/2005	653.85	14.67	639.18	-	-	639.18
	08/22/2005	653.85	15.17	638.68	-	-	638.68
	10/17/2005	653.85	13.37	640.48	-	-	640.48
	01/09/2006	653.85	12.38	641.47	-	-	641.47
	04/03/2006	653.85	11.47	642.38	-	-	642.38
	05/31/2006	653.85	12.46	641.39	-	-	641.39
	06/12/2006	653.85	NR	-	NR	-	-
	08/02/2006	653.85	14.44	639.41	-	-	639.41
	09/06/2006	653.85	10.15	643.70	-	-	643.70
	11/01/2006	653.85	14.45	639.40	-	-	639.40
	01/09/2007	653.85	12.69	641.16	-	-	641.16
	05/07/2007	653.85	11.37	642.48	-	-	642.48
	07/24/2007	653.85	13.34	640.51	-	-	640.51
	10/16/2007	653.85	15.19	638.66	-	-	638.66
	01/11/2008	653.85	13.89	639.96	-	-	639.96
06/23/2008	653.85	12.29	641.56	-	-	641.56	
5-4M	04/04/2005	653.93	14.27	639.66	-	-	639.66
	05/16/2005	653.93	14.62	639.31	-	-	639.31
	06/13/2005	653.93	15.02	638.91	-	-	638.91
	07/11/2005	653.93	15.44	638.49	-	-	638.49
	08/22/2005	653.93	15.94	637.99	-	-	637.99
	10/17/2005	653.93	14.25	639.68	-	-	639.68
	01/09/2006	653.93	13.12	640.81	-	-	640.81
	04/03/2006	653.93	12.21	641.72	-	-	641.72
	05/31/2006	653.93	13.19	640.74	-	-	640.74
	06/12/2006	653.93	NR	-	NR	-	-
	08/02/2006	653.93	14.01	639.92	-	-	639.92
	09/06/2006	653.93	14.81	639.12	-	-	639.12
	11/01/2006	653.93	15.23	638.70	-	-	638.70
	01/09/2007	653.93	13.35	640.58	-	-	640.58
	05/07/2007	653.93	12.17	641.76	-	-	641.76
	07/24/2007	653.93	14.02	639.91	-	-	639.91
	10/16/2007	653.93	15.81	638.12	-	-	638.12
	01/11/2008	653.93	14.69	639.24	-	-	639.24
06/23/2008	653.93	13.08	640.85	-	-	640.85	
5-5M	04/04/2005	654.68	13.99	640.69	-	-	640.69
	05/16/2005	654.68	14.28	640.40	-	-	640.40
	06/13/2005	654.68	14.64	640.04	-	-	640.04
	07/11/2005	654.68	15.02	639.66	15.01	0.01	639.67
	08/22/2005	654.68	15.53	639.15	-	-	639.15
	10/17/2005	654.68	13.73	640.95	-	-	640.95
	01/09/2006	654.68	12.73	641.95	-	-	641.95
	04/03/2006	654.68	11.86	642.82	-	-	642.82
	05/31/2006	654.68	12.81	641.87	-	-	641.87
	06/12/2006	654.68	NR	-	NR	-	-



**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	08/02/2006	654.68	14.09	640.59	-	-	640.59
	09/06/2006	654.68	14.47	640.21	-	-	640.21
	11/01/2006	654.68	15.02	639.66	-	-	639.66
	01/09/2007	654.68	13.20	641.48	-	-	641.48
	05/07/2007	654.68	11.76	642.92	-	-	642.92
	07/24/2007	654.68	13.82	640.86	-	-	640.86
	10/16/2007	654.68	15.59	639.09	-	-	639.09
	01/11/2008	654.68	14.28	640.40	-	-	640.40
	06/23/2008	654.68	12.72	641.96	-	-	641.96
5-6M	04/04/2005	654.29	14.22	640.07	-	-	640.07
	05/16/2005	654.29	14.54	639.75	-	-	639.75
	06/13/2005	654.29	14.90	639.39	-	-	639.39
	07/11/2005	654.29	15.30	638.99	-	-	638.99
	08/22/2005	654.29	15.82	638.47	-	-	638.47
	10/17/2005	654.29	14.13	640.16	-	-	640.16
	01/09/2006	654.29	13.05	641.24	13.02	0.03	641.26
	04/03/2006	654.29	12.19	642.10	-	-	642.10
	05/31/2006	654.29	13.12	641.17	-	-	641.17
	06/12/2006	654.29	NR	-	-	-	-
	08/02/2006	654.29	14.08	640.21	-	-	640.21
	09/06/2006	654.29	14.70	639.59	-	-	639.59
	11/01/2006	654.29	15.24	639.05	-	-	639.05
	01/09/2007	654.29	13.44	640.85	-	-	640.85
	05/07/2007	654.29	12.14	642.15	-	-	642.15
	07/24/2007	654.29	14.13	640.16	-	-	640.16
	10/16/2007	654.29	15.90	638.39	-	-	638.39
	01/11/2008	654.29	14.62	639.67	-	-	639.67
	06/23/2008	654.29	13.21	641.08	-	-	641.08
5-7M	04/04/2005	655.61	14.43	641.18	-	-	641.18
	05/16/2005	655.61	14.65	640.96	-	-	640.96
	06/13/2005	655.61	14.98	640.63	-	-	640.63
	07/11/2005	655.61	15.36	640.25	-	-	640.25
	08/22/2005	655.61	15.88	639.73	-	-	639.73
	10/17/2005	655.61	14.13	641.48	-	-	641.48
	01/09/2006	655.61	13.14	642.47	-	-	642.47
	04/03/2006	655.61	12.28	643.33	-	-	643.33
	05/31/2006	655.61	13.19	642.42	-	-	642.42
	06/12/2006	655.61	NR	-	NR	-	-
	08/02/2006	655.61	14.59	641.02	-	-	641.02
	09/06/2006	655.61	14.81	640.80	-	-	640.80
	11/01/2006	655.61	15.42	640.19	-	-	640.19
	01/09/2007	655.61	13.65	641.96	-	-	641.96
	05/07/2007	655.61	12.16	643.45	-	-	643.45
	07/24/2007	655.61	14.29	641.32	-	-	641.32
	10/16/2007	655.61	16.08	639.53	-	-	639.53
	01/11/2008	655.61	14.73	640.88	-	-	640.88
	06/23/2008	655.61	13.27	642.34	-	-	642.34

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
5-8M	04/04/2005	655.66	14.93	640.73	-	-	640.73
	05/16/2005	655.66	15.08	640.58	-	-	640.58
	06/13/2005	655.66	15.57	640.09	15.41	0.16	640.21
	07/11/2005	655.66	16.07	639.59	15.75	0.32	639.83
	08/22/2005	655.66	16.35	639.31	16.32	0.03	639.33
	10/17/2005	655.66	14.73	640.93	-	-	640.93
	01/09/2006	655.66	13.63	642.03	-	-	642.03
	04/03/2006	655.66	12.81	642.85	-	-	642.85
	05/31/2006	655.66	13.70	641.96	-	-	641.96
	06/12/2006	655.66	NR	-	NR	-	-
	08/02/2006	655.66	14.74	640.92	-	-	640.92
	09/06/2006	655.66	15.25	640.41	-	-	640.41
	11/01/2006	655.66	15.83	639.83	15.75	0.08	639.89
	01/09/2007	655.66	14.05	641.61	-	-	641.61
	05/07/2007	655.66	12.71	642.95	12.70	0.01	642.96
	07/24/2007	655.66	14.65	641.01	-	-	641.01
	10/16/2007	655.66	16.65	639.01	16.42	0.23	639.18
	01/11/2008	655.66	15.25	640.41	-	-	640.41
	06/23/2008	655.66	13.96	641.70	-	-	641.70
	09/18/2008	655.66	14.12	641.54	-	-	641.54
	10/23/2008	655.66	14.50	641.16	-	-	641.16
	12/31/2008	655.66	11.02	644.64	-	-	644.64
	01/28/2009	655.66	11.70	643.96	-	-	643.96
	02/25/2009	655.66	12.13	643.53	-	-	643.53
	03/27/2009	655.66	12.04	643.62	-	-	643.62
	04/29/2009	655.66	12.81	642.85	Sheen	-	642.85
	05/20/2009	655.66	12.31	643.35	-	-	643.35
	06/25/2009	655.66	11.74	643.92	-	-	643.92
	07/21/2009	655.66	12.65	643.01	-	-	643.01
	08/25/2009	655.66	13.23	642.43	-	-	642.43
	09/16/2009	655.66	14.70	640.96	-	-	640.96
	10/14/2009	655.66	14.36	641.30	-	-	641.30
	11/10/2009	655.66	14.78	640.88	-	-	640.88
	12/14/2009	655.66	15.14	640.52	-	-	640.52
	01/11/2010	655.66	15.27	640.39	-	-	640.39
	02/10/2010	655.66	15.17	640.49	-	-	640.49
	03/10/2010	655.66	15.91	639.75	-	-	639.75
	04/14/2010	655.66	15.48	640.18	-	-	640.18
	05/12/2010	655.66	16.06	639.60	-	-	639.60
	06/17/2010	655.66	16.49	639.17	-	-	639.17
	07/14/2010	655.66	16.71	638.95	-	-	638.95
	08/09/2010	655.66	16.43	639.23	-	-	639.23
	09/16/2010	655.66	16.23	639.43	-	-	639.43
	10/13/2010	655.66	14.96	640.70	-	-	640.70
	11/16/2010	655.66	15.02	640.64	-	-	640.64
	12/16/2010	655.66	14.49	641.17	-	-	641.17
	01/13/2011	655.66	14.17	641.49	-	-	641.49
	03/14/2011	655.66	14.08	641.58	-	-	641.58
	04/12/2011	655.66	14.45	641.21	-	-	641.21
	05/19/2011	655.66	13.03	642.63	-	-	642.63

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	06/20/2011	655.66	13.10	642.56	-	-	642.56
	07/13/2011	655.66	13.52	642.14	-	-	642.14
5-9M	04/04/2005	656.01	14.64	641.37	14.37	0.27	641.58
	05/16/2005	656.01	14.98	641.03	14.40	0.58	641.47
	06/13/2005	656.01	14.75	641.26	-	-	641.26
	07/11/2005	656.01	15.14	640.87	15.13	0.01	640.88
	08/22/2005	656.01	15.80	640.21	15.79	0.01	640.22
	10/17/2005	656.01	14.10	641.91	-	-	641.91
	01/09/2006	656.01	13.08	642.93	13.05	0.03	642.95
	04/03/2006	656.01	12.20	643.81	-	-	643.81
	05/31/2006	656.01	13.10	642.91	-	-	642.91
	06/12/2006	656.01	NR	-	NR	-	-
	08/02/2006	656.01	14.32	641.69	-	-	641.69
	09/06/2006	656.01	14.67	641.34	-	-	641.34
	11/01/2006	656.01	15.16	640.85	-	-	640.85
	01/09/2007	656.01	13.49	642.52	-	-	642.52
	05/07/2007	656.01	12.04	643.97	-	-	643.97
	07/24/2007	656.01	14.07	641.94	-	-	641.94
	10/16/2007	656.01	15.98	640.03	-	-	640.03
	01/11/2008	656.01	14.71	641.30	-	-	641.30
	06/23/2008	656.01	13.45	642.56	-	-	642.56
5-10M	04/04/2005	656.61	15.32	641.29	-	-	641.29
	05/16/2005	656.61	15.28	641.33	-	-	641.33
	06/13/2005	656.61	15.63	640.98	-	-	640.98
	07/11/2005	656.61	15.99	640.62	-	-	640.62
	08/22/2005	656.61	16.62	639.99	-	-	639.99
	10/17/2005	656.61	15.12	641.49	-	-	641.49
	01/09/2006	656.61	13.94	642.67	13.92	0.02	642.69
	04/03/2006	656.61	13.12	643.49	-	-	643.49
	05/31/2006	656.61	14.01	642.60	-	-	642.60
	06/12/2006	656.61	NR	-	NR	-	-
	08/02/2006	656.61	14.91	641.70	-	-	641.70
	09/06/2006	656.61	15.53	641.08	-	-	641.08
	11/01/2006	656.61	15.93	640.68	-	-	640.68
	01/09/2007	656.61	14.26	642.35	-	-	642.35
	05/07/2007	656.61	12.98	643.63	-	-	643.63
	07/24/2007	656.61	14.77	641.84	-	-	641.84
	10/16/2007	656.61	16.80	639.81	16.74	0.06	639.86
	01/11/2008	656.61	15.68	640.93	-	-	640.93
	06/23/2008	656.61	14.24	642.37	-	-	642.37
5-11M	04/04/2005	657.63	15.45	642.18	-	-	642.18
	05/16/2005	657.63	15.33	642.30	-	-	642.30
	06/13/2005	657.63	15.68	641.95	-	-	641.95
	07/11/2005	657.63	16.04	641.59	-	-	641.59
	08/22/2005	657.63	16.63	641.00	-	-	641.00
	10/17/2005	657.63	14.90	642.73	-	-	642.73
	01/09/2006	657.63	13.94	643.69	13.92	0.02	643.71

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	04/03/2006	657.63	13.06	644.57	-	-	644.57
	05/31/2006	657.63	13.97	643.66	-	-	643.66
	06/12/2006	657.63	NR	-	NR	-	-
	08/02/2006	657.63	14.90	642.73	-	-	642.73
	09/06/2006	657.63	15.56	642.07	-	-	642.07
	11/01/2006	657.63	15.79	641.84	-	-	641.84
	01/09/2007	657.63	14.12	643.51	-	-	643.51
	05/07/2007	657.63	12.86	644.77	-	-	644.77
	07/24/2007	657.63	14.70	642.93	-	-	642.93
	10/16/2007	657.63	16.68	640.95	-	-	640.95
	01/11/2008	657.63	15.67	641.96	-	-	641.96
	06/23/2008	657.63	14.07	643.56	-	-	643.56
	09/18/2008	657.63	14.38	643.25	-	-	643.25
	10/23/2008	657.63	14.59	643.04	-	-	643.04
	12/30/2008	657.63	10.70	646.93	-	-	646.93
	01/28/2009	657.63	9.45	648.18	-	-	648.18
	02/25/2009	657.63	11.40	646.23	-	-	646.23
	03/27/2009	657.63	12.05	645.58	-	-	645.58
	04/29/2009	657.63	12.34	645.29	-	-	645.29
	05/20/2009	657.63	12.28	645.35	-	-	645.35
	06/25/2009	657.63	11.92	645.71	-	-	645.71
	07/21/2009	657.63	12.82	644.81	-	-	644.81
	08/25/2009	657.63	13.40	644.23	-	-	644.23
	09/16/2009	657.63	18.93	638.70	-	-	638.70
	10/14/2009	657.63	14.61	643.02	-	-	643.02
	11/10/2009	657.63	14.98	642.65	-	-	642.65
	12/14/2009	657.63	15.31	642.32	-	-	642.32
	01/11/2010	657.63	15.47	642.16	-	-	642.16
	02/10/2010	657.63	15.38	642.25	-	-	642.25
	03/10/2010	657.63	16.17	641.46	-	-	641.46
	04/14/2010	657.63	15.74	641.89	-	-	641.89
	05/12/2010	657.63	16.36	641.27	-	-	641.27
	06/17/2010	657.63	16.79	640.84	-	-	640.84
	07/14/2010	657.63	17.06	640.57	-	-	640.57
	09/16/2010	657.63	16.42	641.21	-	-	641.21
	10/13/2010	657.63	15.20	642.43	-	-	642.43
	11/16/2010	657.63	15.31	642.32	-	-	642.32
	12/16/2010	657.63	14.57	643.06	-	-	643.06
	01/13/2011	657.63	14.57	643.06	-	-	643.06
	03/14/2011	657.63	13.71	643.92	-	-	643.92
	04/12/2011	657.63	14.81	642.82	-	-	642.82
	05/19/2011	657.63	12.83	644.80	-	-	644.80
	06/20/2011	657.63	13.39	644.24	-	-	644.24
	07/13/2011	657.63	13.52	644.11	-	-	644.11
6-1M	04/04/2005	653.44	12.00	641.44	-	-	641.44
	05/16/2005	653.44	12.31	641.13	-	-	641.13
	06/13/2005	653.44	14.75	638.69	-	-	638.69
	07/11/2005	653.44	13.11	640.33	-	-	640.33
	08/22/2005	653.44	13.63	639.81	-	-	639.81

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	10/17/2005	653.44	11.73	641.71	-	-	641.71
	01/09/2006	653.44	10.83	642.61	-	-	642.61
	04/03/2006	653.44	9.83	643.61	-	-	643.61
	05/31/2006	653.44	10.88	642.56	-	-	642.56
	06/12/2006	653.44	11.10	642.34	-	-	642.34
	08/02/2006	653.44	12.05	641.39	-	-	641.39
	09/06/2006	653.44	12.74	640.70	-	-	640.70
	11/01/2006	653.44	12.74	640.70	-	-	640.70
	01/09/2007	653.44	11.08	642.36	-	-	642.36
	05/07/2007	653.44	9.65	643.79	-	-	643.79
	07/24/2007	653.44	11.78	641.66	-	-	641.66
	10/16/2007	653.44	13.80	639.64	-	-	639.64
	01/11/2008	653.44	12.20	641.24	-	-	641.24
	07/07/2008	653.44	11.45	641.99	-	-	641.99
6-2M	04/04/2005	653.65	12.79	640.86	-	-	640.86
	05/16/2005	653.65	13.09	640.56	-	-	640.56
	06/13/2005	653.65	13.47	640.18	-	-	640.18
	07/11/2005	653.65	13.86	639.79	-	-	639.79
	08/22/2005	653.65	14.35	639.30	-	-	639.30
	10/17/2005	653.65	12.47	641.18	-	-	641.18
	01/09/2006	653.65	11.59	642.06	-	-	642.06
	04/03/2006	653.65	10.61	643.04	-	-	643.04
	05/31/2006	653.65	11.63	642.02	-	-	642.02
	06/12/2006	653.65	11.90	641.75	-	-	641.75
	08/02/2006	653.65	12.87	640.78	-	-	640.78
	09/06/2006	653.65	13.44	640.21	-	-	640.21
	11/01/2006	653.65	13.62	640.03	-	-	640.03
	01/09/2007	653.65	11.92	641.73	-	-	641.73
	05/07/2007	653.65	10.47	643.18	-	-	643.18
	07/24/2007	653.65	12.61	641.04	-	-	641.04
	10/16/2007	653.65	14.45	639.20	-	-	639.20
	01/11/2008	653.65	12.99	640.66	-	-	640.66
	07/07/2008	653.65	12.25	641.40	-	-	641.40
	09/18/2008	653.65	12.12	641.53	-	-	641.53
	10/23/2008	653.65	12.61	641.04	-	-	641.04
	12/31/2008	653.65	9.00	644.65	-	-	644.65
	01/28/2009	653.65	9.82	643.83	-	-	643.83
	02/25/2009	653.65	9.68	643.97	-	-	643.97
	03/27/2009	653.65	9.63	644.02	-	-	644.02
	04/29/2009	653.65	9.92	643.73	9.91	0.01	643.74
	05/20/2009	653.65	10.04	643.61	-	-	643.61
	06/25/2009	653.65	9.74	643.91	-	-	643.91
	07/21/2009	653.65	10.67	642.98	-	-	642.98
	08/25/2009	653.65	11.24	642.41	-	-	642.41
	09/16/2009	653.65	11.84	641.81	-	-	641.81
	10/14/2009	653.65	12.52	641.13	-	-	641.13
	11/10/2009	653.65	12.97	640.68	-	-	640.68
	12/14/2009	653.65	13.38	640.27	-	-	640.27
	01/11/2010	653.65	13.56	640.09	-	-	640.09

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	02/10/2010	653.65	12.97	640.68	-	-	640.68
	03/10/2010	653.65	13.71	639.94	-	-	639.94
	04/14/2010	653.65	13.31	640.34	-	-	640.34
	05/12/2010	653.65	14.16	639.49	-	-	639.49
	06/17/2010	653.65	14.19	639.46	-	-	639.46
	07/14/2010	653.65	14.73	638.92	-	-	638.92
	08/09/2010	653.65	14.62	639.03	-	-	639.03
	09/16/2010	653.65	14.66	638.99	-	-	638.99
	10/13/2010	653.65	13.24	640.41	-	-	640.41
	11/16/2010	653.65	13.32	640.33	-	-	640.33
	12/16/2010	653.65	12.72	640.93	-	-	640.93
	01/13/2011	653.65	12.81	640.84	-	-	640.84
	03/14/2011	653.65	11.99	641.66	-	-	641.66
	04/12/2011	653.65	12.42	641.23	-	-	641.23
	05/19/2011	653.65	11.00	642.65	-	-	642.65
	06/20/2011	653.65	11.29	642.36	-	-	642.36
	07/13/2011	653.65	13.52	640.13	-	-	640.13
6-3M	04/04/2005	654.27	12.48	641.79	-	-	641.79
	05/16/2005	654.27	12.81	641.46	-	-	641.46
	06/13/2005	654.27	13.18	641.09	-	-	641.09
	07/11/2005	654.27	13.53	640.74	-	-	640.74
	08/22/2005	654.27	14.08	640.19	-	-	640.19
	10/17/2005	654.27	11.97	642.30	-	-	642.30
	01/09/2006	654.27	11.13	643.14	-	-	643.14
	04/03/2006	654.27	10.13	644.14	-	-	644.14
	05/31/2006	654.27	11.12	643.15	-	-	643.15
	06/12/2006	654.27	11.42	642.85	-	-	642.85
	08/02/2006	654.27	12.74	641.53	-	-	641.53
	09/06/2006	654.27	13.03	641.24	-	-	641.24
	11/01/2006	654.27	13.37	640.90	-	-	640.90
	01/09/2007	654.27	11.54	642.73	-	-	642.73
	05/07/2007	654.27	9.99	644.28	-	-	644.28
	07/24/2007	654.27	12.33	641.94	-	-	641.94
	10/16/2007	654.27	14.22	640.05	-	-	640.05
	01/11/2008	654.27	12.52	641.75	-	-	641.75
	07/07/2008	654.27	12.40	641.87	-	-	641.87
	09/18/2008	654.27	11.50	642.77	-	-	642.77
	10/23/2008	654.27	11.91	642.36	-	-	642.36
	12/31/2008	654.27	8.42	645.85	-	-	645.85
	01/28/2009	654.27	10.24	644.03	-	-	644.03
	02/25/2009	654.27	9.20	645.07	-	-	645.07
	03/27/2009	654.27	9.28	644.99	-	-	644.99
	04/29/2009	654.27	9.28	644.99	-	-	644.99
	05/20/2009	654.27	9.42	644.85	-	-	644.85
	06/25/2009	654.27	9.16	645.11	-	-	645.11
	07/21/2009	654.27	10.12	644.15	-	-	644.15
	08/25/2009	654.27	10.70	643.57	-	-	643.57
	09/16/2009	654.27	11.32	642.95	-	-	642.95
	10/14/2009	654.27	12.02	642.25	-	-	642.25

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	11/10/2009	654.27	12.54	641.73	-	-	641.73
	12/14/2009	654.27	12.08	642.19	-	-	642.19
	01/11/2010	654.27	12.61	641.66	-	-	641.66
	02/10/2010	654.27	12.51	641.76	-	-	641.76
	03/10/2010	654.27	-	-	flooded	-	-
	04/14/2010	654.27	12.14	642.13	-	-	642.13
	05/12/2010	654.27	13.31	640.96	-	-	640.96
	06/17/2010	654.27	12.99	641.28	-	-	641.28
	07/14/2010	654.27	13.72	640.55	-	-	640.55
	08/09/2010	654.27	14.27	640.00	-	-	640.00
	09/16/2010	654.27	14.33	639.94	-	-	639.94
	10/13/2010	654.27	12.74	641.53	-	-	641.53
	11/16/2010	654.27	12.94	641.33	-	-	641.33
	12/16/2010	654.27	12.29	641.98	-	-	641.98
	01/13/2011	654.27	12.43	641.84	-	-	641.84
	03/14/2011	654.27	11.71	642.56	-	-	642.56
	04/12/2011	654.27	12.19	642.08	-	-	642.08
	05/19/2011	654.27	10.67	643.60	-	-	643.60
	06/20/2011	654.27	10.95	643.32	-	-	643.32
	07/13/2011	654.27	13.52	640.75	-	-	640.75
6-4M	04/04/2005	654.64	13.44	641.20	-	-	641.20
	05/16/2005	654.64	13.76	640.88	-	-	640.88
	06/13/2005	654.64	14.12	640.52	-	-	640.52
	07/11/2005	654.64	12.47	642.17	-	-	642.17
	08/22/2005	654.64	15.01	639.63	-	-	639.63
	10/17/2005	654.64	13.01	641.63	-	-	641.63
	01/09/2006	654.64	12.14	642.50	-	-	642.50
	04/03/2006	654.64	11.20	643.44	-	-	643.44
	05/31/2006	654.64	12.18	642.46	-	-	642.46
	06/12/2006	654.64	12.49	642.15	-	-	642.15
	08/02/2006	654.64	14.03	640.61	-	-	640.61
	09/06/2006	654.64	13.94	640.70	-	-	640.70
	11/01/2006	654.64	14.58	640.06	-	-	640.06
	01/09/2007	654.64	12.70	641.94	-	-	641.94
	05/07/2007	654.64	11.10	643.54	-	-	643.54
	07/24/2007	654.64	13.38	641.26	-	-	641.26
	10/16/2007	654.64	15.11	639.53	-	-	639.53
	01/11/2008	654.64	13.61	641.03	-	-	641.03
	07/07/2008	654.64	13.45	641.19	-	-	641.19
6-5M	04/04/2005	655.33	13.29	642.04	-	-	642.04
	05/16/2005	655.33	13.61	641.72	-	-	641.72
	06/13/2005	655.33	13.99	641.34	-	-	641.34
	07/11/2005	655.33	14.32	641.01	-	-	641.01
	08/22/2005	655.33	14.90	640.43	-	-	640.43
	10/17/2005	655.33	12.40	642.93	-	-	642.93
	01/09/2006	655.33	11.67	643.66	-	-	643.66
	04/03/2006	655.33	10.33	645.00	-	-	645.00
	05/31/2006	655.33	11.73	643.60	-	-	643.60

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/12/2006	655.33	11.93	643.40	-	-	643.40
	08/02/2006	655.33	14.25	641.08	-	-	641.08
	09/06/2006	655.33	13.65	641.68	-	-	641.68
	11/01/2006	655.33	14.47	640.86	-	-	640.86
	01/09/2007	655.33	11.97	643.36	-	-	643.36
	05/07/2007	655.33	10.37	644.96	-	-	644.96
	07/24/2007	655.33	13.29	642.04	-	-	642.04
	10/16/2007	655.33	14.99	640.34	-	-	640.34
	01/11/2008	655.33	12.87	642.46	-	-	642.46
	07/07/2008	655.33	14.45	640.88	-	-	640.88
6-6M	04/04/2005	655.59	14.05	641.54	-	-	641.54
	05/16/2005	655.59	14.40	641.19	14.27	0.13	641.29
	06/13/2005	655.59	14.60	640.99	-	-	640.99
	07/11/2005	655.59	14.94	640.65	-	-	640.65
	08/22/2005	655.59	15.69	639.90	15.50	0.19	640.04
	10/17/2005	655.59	13.63	641.96	-	-	641.96
	01/09/2006	655.59	12.68	642.91	12.66	0.02	642.93
	04/03/2006	655.59	11.77	643.82	-	-	643.82
	05/31/2006	655.59	12.70	642.89	-	-	642.89
	06/12/2006	655.59	13.02	642.57	-	-	642.57
	08/02/2006	655.59	14.69	640.90	-	-	640.90
	09/06/2006	655.59	14.40	641.19	-	-	641.19
	11/01/2006	655.59	15.19	640.40	-	-	640.40
	01/09/2007	655.59	13.63	641.96	-	-	641.96
	05/07/2007	655.59	11.69	643.90	-	-	643.90
	07/24/2007	655.59	14.03	641.56	-	-	641.56
	10/16/2007	655.59	15.77	639.82	-	-	639.82
	01/11/2008	655.59	14.21	641.38	-	-	641.38
	07/07/2008	655.59	14.70	640.89	-	-	640.89
	09/18/2008	655.59	13.44	642.15	-	-	642.15
	10/23/2008	655.59	13.72	641.87	-	-	641.87
	12/31/2008	655.59	9.90	645.69	-	-	645.69
	01/28/2009	655.59	10.75	644.84	-	-	644.84
	02/25/2009	655.59	10.75	644.84	-	-	644.84
	03/27/2009	655.59	10.66	644.93	-	-	644.93
	04/29/2009	655.59	10.83	644.76	Sheen	-	644.76
	05/20/2009	655.59	11.15	644.44	-	-	644.44
	06/25/2009	655.59	10.68	644.91	-	-	644.91
	07/21/2009	655.59	11.64	643.95	-	-	643.95
	08/25/2009	655.59	12.18	643.41	-	-	643.41
	09/16/2009	655.59	12.75	642.84	-	-	642.84
	10/14/2009	655.59	13.39	642.20	-	-	642.20
	11/10/2009	655.59	13.93	641.66	13.91	0.02	641.68
	12/14/2009	655.59	14.21	641.38	-	-	641.38
	01/11/2010	655.59	14.08	641.51	-	-	641.51
	02/10/2010	655.59	14.41	641.18	-	-	641.18
	03/10/2010	655.59	15.99	639.60	-	-	639.60
	04/14/2010	655.59	13.46	642.13	-	-	642.13
	05/12/2010	655.59	14.98	640.61	-	-	640.61



**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	06/17/2010	655.59	15.31	640.28	-	-	640.28
	07/14/2010	655.59	16.09	639.50	-	-	639.50
	08/09/2010	655.59	15.60	639.99	-	-	639.99
	09/16/2010	655.59	15.45	640.14	-	-	640.14
	10/13/2010	655.59	14.07	641.52	-	-	641.52
	11/16/2010	655.59	14.20	641.39	-	-	641.39
	12/16/2010	655.59	13.61	641.98	-	-	641.98
	01/13/2011	655.59	13.61	641.98	-	-	641.98
	03/14/2011	655.59	13.49	642.10	-	-	642.10
	04/12/2011	655.59	13.73	641.86	-	-	641.86
	05/19/2011	655.59	12.11	643.48	-	-	643.48
	06/20/2011	655.59	12.27	643.32	-	-	643.32
	07/13/2011	655.59	13.52	642.07	-	-	642.07
6-7M	04/04/2005	656.54	14.09	642.45	-	-	642.45
	05/16/2005	656.54	14.33	642.21	-	-	642.21
	06/13/2005	656.54	14.65	641.89	-	-	641.89
	07/11/2005	656.54	14.98	641.56	-	-	641.56
	08/22/2005	656.54	15.54	641.00	-	-	641.00
	10/17/2005	656.54	13.54	643.00	-	-	643.00
	01/09/2006	656.54	12.55	643.99	-	-	643.99
	04/03/2006	656.54	11.27	645.27	-	-	645.27
	05/31/2006	656.54	12.48	644.06	-	-	644.06
	06/12/2006	656.54	12.94	643.60	-	-	643.60
	08/02/2006	656.54	14.71	641.83	-	-	641.83
	09/06/2006	656.54	14.30	642.24	-	-	642.24
	11/01/2006	656.54	14.92	641.62	-	-	641.62
	01/09/2007	656.54	13.25	643.29	-	-	643.29
	05/07/2007	656.54	11.22	645.32	-	-	645.32
	07/24/2007	656.54	13.99	642.55	-	-	642.55
	10/16/2007	656.54	15.66	640.88	-	-	640.88
	01/11/2008	656.54	14.09	642.45	-	-	642.45
	07/07/2008	656.54	15.00	641.54	-	-	641.54
6-8M	04/04/2005	656.44	14.68	641.76	14.45	0.23	641.93
	05/16/2005	656.44	14.63	641.81	-	-	641.81
	06/13/2005	656.44	14.95	641.49	14.94	0.01	641.50
	07/11/2005	656.44	15.54	640.90	15.27	0.27	641.11
	08/22/2005	656.44	16.15	640.29	15.87	0.28	640.50
	10/17/2005	656.44	13.83	642.61	-	-	642.61
	01/09/2006	656.44	13.00	643.44	12.98	0.02	643.46
	04/03/2006	656.44	12.68	643.76	-	-	643.76
	05/31/2006	656.44	13.04	643.40	-	-	643.40
	06/12/2006	656.44	13.38	643.06	-	-	643.06
	08/02/2006	656.44	14.77	641.67	-	-	641.67
	09/06/2006	656.44	14.72	641.72	-	-	641.72
	11/01/2006	656.44	15.31	641.13	-	-	641.13
	01/09/2007	656.44	13.64	642.80	-	-	642.80
	05/07/2007	656.44	12.04	644.40	-	-	644.40
	07/24/2007	656.44	14.30	642.14	-	-	642.14

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	10/16/2007	656.44	16.11	640.33	-	-	640.33
	01/11/2008	656.44	14.88	641.56	-	-	641.56
	07/07/2008	656.44	14.90	641.54	-	-	641.54
6-9M	04/04/2005	657.71	14.83	642.88	14.46	0.37	643.16
	05/16/2005	657.71	14.85	642.86	14.53	0.32	643.10
	06/13/2005	657.71	15.20	642.51	14.84	0.36	642.78
	07/11/2005	657.71	15.55	642.16	15.22	0.33	642.41
	08/22/2005	657.71	16.02	641.69	15.80	0.22	641.86
	10/17/2005	657.71	13.91	643.80	-	-	643.80
	01/09/2006	657.71	12.98	644.73	-	-	644.73
	04/03/2006	657.71	12.08	645.63	-	-	645.63
	05/31/2006	657.71	12.97	644.74	-	-	644.74
	06/12/2006	657.71	13.33	644.38	-	-	644.38
	08/02/2006	657.71	14.32	643.39	-	-	643.39
	09/06/2006	657.71	14.60	643.11	-	-	643.11
	11/01/2006	657.71	14.83	642.88	-	-	642.88
	01/09/2007	657.71	13.22	644.49	-	-	644.49
	05/07/2007	657.71	11.80	645.91	-	-	645.91
	07/24/2007	657.71	13.98	643.73	-	-	643.73
	10/16/2007	657.71	15.95	641.76	-	-	641.76
	01/11/2008	657.71	14.43	643.28	-	-	643.28
	07/07/2008	657.71	15.13	642.58	-	-	642.58
6-10M	04/04/2005	657.60	15.02	642.58	-	-	642.58
	05/16/2005	657.60	14.98	642.62	-	-	642.62
	06/13/2005	657.60	15.32	642.28	-	-	642.28
	07/11/2005	657.60	15.69	641.91	-	-	641.91
	08/22/2005	657.60	16.25	641.35	-	-	641.35
	10/17/2005	657.60	14.53	643.07	-	-	643.07
	01/09/2006	657.60	13.48	644.12	-	-	644.12
	04/03/2006	657.60	12.57	645.03	-	-	645.03
	05/31/2006	657.60	13.49	644.11	-	-	644.11
	06/12/2006	657.60	13.80	643.80	-	-	643.80
	08/02/2006	657.60	14.62	642.98	-	-	642.98
	09/06/2006	657.60	15.06	642.54	-	-	642.54
	11/01/2006	657.60	15.36	642.24	-	-	642.24
	01/09/2007	657.60	13.75	643.85	-	-	643.85
	05/07/2007	657.60	12.35	645.25	-	-	645.25
	07/24/2007	657.60	14.40	643.20	-	-	643.20
	10/16/2007	657.60	16.35	641.25	-	-	641.25
	01/11/2008	657.60	15.05	642.55	-	-	642.55
	07/07/2008	657.60	15.00	642.60	-	-	642.60
	09/18/2008	657.60	13.65	643.95	-	-	643.95
	10/23/2008	657.60	13.65	643.95	-	-	643.95
	12/31/2008	657.60	10.66	646.94	-	-	646.94
	01/28/2009	657.60	11.51	646.09	-	-	646.09
	02/25/2009	657.60	11.71	645.89	-	-	645.89
	03/27/2009	657.60	11.79	645.81	-	-	645.81
	04/29/2009	657.60	11.66	645.94	-	-	645.94

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	05/20/2009	657.60	11.91	645.69	-	-	645.69
	06/25/2009	657.60	11.35	646.25	-	-	646.25
	07/21/2009	657.60	12.29	645.31	-	-	645.31
	08/25/2009	657.60	12.28	645.32	-	-	645.32
	09/16/2009	657.60	13.36	644.24	-	-	644.24
	10/14/2009	657.60	14.04	643.56	-	-	643.56
	11/10/2009	657.60	14.56	643.04	-	-	643.04
	12/14/2009	657.60	14.63	642.97	-	-	642.97
	01/11/2010	657.60	15.06	642.54	-	-	642.54
	02/10/2010	657.60	14.84	642.76	-	-	642.76
	03/10/2010	657.60	15.31	642.29	-	-	642.29
	04/14/2010	657.60	14.98	642.62	-	-	642.62
	05/12/2010	657.60	15.76	641.84	-	-	641.84
	06/17/2010	657.60	15.63	641.97	-	-	641.97
	07/14/2010	657.60	16.41	641.19	-	-	641.19
	08/09/2010	657.60	16.31	641.29	-	-	641.29
	09/16/2010	657.60	16.11	641.49	-	-	641.49
	10/13/2010	657.60	14.74	642.86	-	-	642.86
	11/16/2010	657.60	14.87	642.73	-	-	642.73
	12/16/2010	657.60	14.27	643.33	-	-	643.33
	01/13/2011	657.60	14.21	643.39	-	-	643.39
	03/14/2011	657.60	14.02	643.58	-	-	643.58
	04/12/2011	657.60	14.43	643.17	-	-	643.17
	05/19/2011	657.60	12.87	644.73	-	-	644.73
	06/20/2011	657.60	12.99	644.61	-	-	644.61
	07/13/2011	657.60	13.52	644.08	-	-	644.08
6-11M	04/04/2005	658.42	14.67	643.75	-	-	643.75
	05/16/2005	658.42	14.65	643.77	-	-	643.77
	06/13/2005	658.42	14.99	643.43	-	-	643.43
	07/11/2005	658.42	15.34	643.08	-	-	643.08
	08/22/2005	658.42	15.85	642.57	-	-	642.57
	10/17/2005	658.42	14.11	644.31	-	-	644.31
	01/09/2006	658.42	13.10	645.32	-	-	645.32
	04/03/2006	658.42	12.18	646.24	-	-	646.24
	05/31/2006	658.42	13.10	645.32	-	-	645.32
	06/12/2006	658.42	13.41	645.01	-	-	645.01
	08/02/2006	658.42	14.05	644.37	-	-	644.37
	09/06/2006	658.42	14.66	643.76	-	-	643.76
	11/01/2006	658.42	14.71	643.71	-	-	643.71
	01/09/2007	658.42	13.23	645.19	-	-	645.19
	05/07/2007	658.42	11.92	646.50	-	-	646.50
	07/24/2007	658.42	13.97	644.45	-	-	644.45
	10/16/2007	658.42	15.95	642.47	-	-	642.47
	01/11/2008	658.42	14.55	643.87	-	-	643.87
	07/07/2008	658.42	14.95	643.47	-	-	643.47
6-12M	04/04/2005	658.49	15.37	643.12	-	-	643.12
	05/16/2005	658.49	15.18	643.31	-	-	643.31
	06/13/2005	658.49	15.55	642.94	-	-	642.94

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	07/11/2005	658.49	15.93	642.56	-	-	642.56
	08/22/2005	658.49	16.43	642.06	-	-	642.06
	10/17/2005	658.49	14.96	643.53	-	-	643.53
	01/09/2006	658.49	13.77	644.72	-	-	644.72
	04/03/2006	658.49	12.88	645.61	-	-	645.61
	05/31/2006	658.49	13.79	644.70	-	-	644.70
	06/12/2006	658.49	14.08	644.41	-	-	644.41
	08/02/2006	658.49	14.66	643.83	-	-	643.83
	09/06/2006	658.49	15.32	643.17	-	-	643.17
	11/01/2006	658.49	15.53	642.96	-	-	642.96
	01/09/2007	658.49	13.94	644.55	-	-	644.55
	05/07/2007	658.49	12.64	645.85	-	-	645.85
	07/24/2007	658.49	14.51	643.98	-	-	643.98
	10/16/2007	658.49	16.51	641.98	-	-	641.98
	01/11/2008	658.49	15.38	643.11	-	-	643.11
	07/07/2008	658.49	14.85	643.64	-	-	643.64
7-1M	04/04/2005	654.41	12.04	642.37	-	-	642.37
	05/16/2005	654.41	12.32	642.09	-	-	642.09
	06/13/2005	654.41	12.70	641.71	-	-	641.71
	07/11/2005	654.41	13.13	641.28	-	-	641.28
	08/22/2005	654.41	13.61	640.80	-	-	640.80
	10/17/2005	654.41	11.53	642.88	-	-	642.88
	01/09/2006	654.41	10.78	643.63	-	-	643.63
	04/03/2006	654.41	9.73	644.68	-	-	644.68
	05/31/2006	654.41	10.76	643.65	-	-	643.65
	06/12/2006	654.41	NR	-	NR	-	-
	08/02/2006	654.41	12.05	642.36	-	-	642.36
	09/06/2006	654.41	12.66	641.75	-	-	641.75
	11/01/2006	654.41	12.66	641.75	-	-	641.75
	01/09/2007	654.41	11.01	643.40	-	-	643.40
	05/07/2007	654.41	9.54	644.87	-	-	644.87
	07/24/2007	654.41	11.77	642.64	-	-	642.64
	10/16/2007	654.41	13.83	640.58	-	-	640.58
	01/11/2008	654.41	12.13	642.28	-	-	642.28
	07/07/2008	654.41	11.80	642.61	-	-	642.61
7-2M	04/04/2005	654.72	11.45	643.27	-	-	643.27
	05/16/2005	654.72	11.65	643.07	-	-	643.07
	06/13/2005	654.72	12.76	641.96	-	-	641.96
	07/11/2005	654.72	12.58	642.14	12.45	0.13	642.24
	08/22/2005	654.72	13.12	641.60	12.89	0.23	641.77
	10/17/2005	654.72	10.76	643.96	-	-	643.96
	01/09/2006	654.72	10.10	644.62	-	-	644.62
	04/03/2006	654.72	9.02	645.70	-	-	645.70
	05/31/2006	654.72	10.02	644.70	-	-	644.70
	06/12/2006	654.72	NR	-	NR	-	-
	08/02/2006	654.72	11.12	643.60	-	-	643.60
	09/06/2006	654.72	11.95	642.77	-	-	642.77
	11/01/2006	654.72	11.68	643.04	-	-	643.04

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	01/09/2007	654.72	10.08	644.64	-	-	644.64
	05/07/2007	654.72	8.73	645.99	-	-	645.99
	07/24/2007	654.72	10.95	643.77	-	-	643.77
	10/16/2007	654.72	13.09	641.63	-	-	641.63
	01/11/2008	654.72	11.38	643.34	-	-	643.34
	07/07/2008	654.72	10.75	643.97	-	-	643.97
7-3M	04/04/2005	654.97	12.28	642.69	-	-	642.69
	05/16/2005	654.97	12.48	642.49	-	-	642.49
	06/13/2005	654.97	12.76	642.21	-	-	642.21
	07/11/2005	654.97	13.21	641.76	-	-	641.76
	08/22/2005	654.97	13.68	641.29	-	-	641.29
	10/17/2005	654.97	11.53	643.44	-	-	643.44
	01/09/2006	654.97	10.78	644.19	-	-	644.19
	04/03/2006	654.97	9.80	645.17	-	-	645.17
	05/31/2006	654.97	10.76	644.21	-	-	644.21
	06/12/2006	654.97	NR	-	NR	-	-
	08/02/2006	654.97	12.04	642.93	-	-	642.93
	09/06/2006	654.97	12.72	642.25	-	-	642.25
	11/01/2006	654.97	12.83	642.14	-	-	642.14
	01/09/2007	654.97	11.05	643.92	-	-	643.92
	05/07/2007	654.97	9.62	645.35	-	-	645.35
	07/24/2007	654.97	11.93	643.04	-	-	643.04
	10/16/2007	654.97	13.82	641.15	-	-	641.15
	01/11/2008	654.97	12.14	642.83	-	-	642.83
	07/07/2008	654.97	11.95	643.02	-	-	643.02
7-4M	04/04/2005	655.79	12.10	643.69	-	-	643.69
	05/16/2005	655.79	12.40	643.39	-	-	643.39
	06/13/2005	655.79	12.69	643.10	-	-	643.10
	07/11/2005	655.79	13.13	642.66	-	-	642.66
	08/22/2005	655.79	13.59	642.20	-	-	642.20
	10/17/2005	655.79	11.16	644.63	-	-	644.63
	01/09/2006	655.79	10.63	645.16	-	-	645.16
	04/03/2006	655.79	9.48	646.31	-	-	646.31
	05/31/2006	655.79	10.58	645.21	-	-	645.21
	06/12/2006	655.79	NR	-	NR	-	-
	08/02/2006	655.79	11.57	644.22	-	-	644.22
	09/06/2006	655.79	12.37	643.42	-	-	643.42
	11/01/2006	655.79	12.13	643.66	-	-	643.66
	01/09/2007	655.79	10.67	645.12	-	-	645.12
	05/07/2007	655.79	9.26	646.53	-	-	646.53
	07/24/2007	655.79	11.54	644.25	-	-	644.25
	10/16/2007	655.79	13.67	642.12	-	-	642.12
	01/11/2008	655.79	11.81	643.98	-	-	643.98
	07/07/2008	655.79	11.65	644.14	-	-	644.14
7-5M	04/04/2005	656.26	13.03	643.23	-	-	643.23
	05/16/2005	656.26	13.29	642.97	-	-	642.97
	06/13/2005	656.26	13.55	642.71	-	-	642.71

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	07/11/2005	656.26	14.05	642.21	13.98	0.07	642.26
	08/22/2005	656.26	14.50	641.76	-	-	641.76
	10/17/2005	656.26	12.05	644.21	-	-	644.21
	01/09/2006	656.26	11.56	644.70	-	-	644.70
	04/03/2006	656.26	10.55	645.71	-	-	645.71
	05/31/2006	656.26	11.52	644.74	-	-	644.74
	06/12/2006	656.26	NR	-	NR	-	-
	08/02/2006	656.26	12.79	643.47	-	-	643.47
	09/06/2006	656.26	13.25	643.01	-	-	643.01
	11/01/2006	656.26	13.29	642.97	-	-	642.97
	01/09/2007	656.26	11.77	644.49	-	-	644.49
	05/07/2007	656.26	10.29	645.97	-	-	645.97
	07/24/2007	656.26	12.56	643.70	-	-	643.70
	10/16/2007	656.26	14.58	641.68	-	-	641.68
	01/11/2008	656.26	12.78	643.48	-	-	643.48
	07/07/2008	656.26	13.40	642.86	13.00	0.40	643.16
	09/18/2008	656.26	11.70	644.56	-	-	644.56
	10/23/2008	656.26	11.70	644.56	-	-	644.56
	12/31/2008	656.26	8.62	647.64	-	-	647.64
	01/28/2009	656.26	9.50	646.76	-	-	646.76
	02/25/2009	656.26	10.10	646.16	9.45	0.65	646.65
	03/27/2009	656.26	9.47	646.79	-	-	646.79
	04/29/2009	656.26	9.59	646.67	9.58	0.01	646.68
	05/20/2009	656.26	9.74	646.52	-	-	646.52
	06/25/2009	656.26	9.31	646.95	-	-	646.95
	07/21/2009	656.26	10.32	645.94	-	-	645.94
	08/25/2009	656.26	10.90	645.36	-	-	645.36
	09/16/2009	656.26	11.58	644.68	11.55	0.03	644.70
	10/14/2009	656.26	12.78	643.48	12.27	0.51	643.99
	11/10/2009	656.26	12.84	643.42	12.83	0.01	643.43
	12/14/2009	656.26	13.19	643.07	-	-	643.07
	01/11/2010	656.26	13.54	642.72	-	-	642.72
	02/10/2010	656.26	13.55	642.71	-	-	642.71
	03/10/2010	656.26	14.19	642.07	-	-	642.07
	04/14/2010	656.26	14.06	642.20	-	-	642.20
	05/12/2010	656.26	14.62	641.64	-	-	641.64
	06/17/2010	656.26	14.64	641.62	-	-	641.62
	07/14/2010	656.26	15.11	641.15	-	-	641.15
	08/09/2010	656.26	14.53	641.73	-	-	641.73
	09/16/2010	656.26	14.48	641.78	-	-	641.78
	10/13/2010	656.26	13.01	643.25	12.98	0.03	643.28
	11/16/2010	656.26	13.24	643.02	-	-	643.02
	12/16/2010	656.26	12.68	643.58	-	-	643.58
	01/13/2011	656.26	12.73	643.53	-	-	643.53
	03/14/2011	656.26	12.04	644.22	-	-	644.22
	04/12/2011	656.26	12.78	643.48	-	-	643.48
	05/19/2011	656.26	11.09	645.17	-	-	645.17
	06/20/2011	656.26	11.49	644.77	-	-	644.77
	07/13/2011	656.26	13.52	642.74	-	-	642.74

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
7-6M	04/04/2005	656.26	11.96	644.30	-	-	644.30
	05/16/2005	656.26	12.21	644.05	-	-	644.05
	06/13/2005	656.26	12.50	643.76	-	-	643.76
	07/11/2005	656.26	12.86	643.40	-	-	643.40
	08/22/2005	656.26	13.50	642.76	13.34	0.16	642.88
	10/17/2005	656.26	10.93	645.33	-	-	645.33
	01/09/2006	656.26	10.42	645.84	-	-	645.84
	04/03/2006	656.26	9.41	646.85	-	-	646.85
	05/31/2006	656.26	10.38	645.88	-	-	645.88
	06/12/2006	656.26	NR	-	NR	-	-
	08/02/2006	656.26	11.17	645.09	-	-	645.09
	09/06/2006	656.26	12.05	644.21	-	-	644.21
	11/01/2006	656.26	11.70	644.56	-	-	644.56
	01/09/2007	656.26	10.37	645.89	-	-	645.89
	05/07/2007	656.26	9.04	647.22	-	-	647.22
	07/24/2007	656.26	11.28	644.98	-	-	644.98
	10/16/2007	656.26	13.33	642.93	13.31	0.02	642.95
	01/11/2008	656.26	11.52	644.74	-	-	644.74
	07/07/2008	656.26	11.10	645.16	-	-	645.16
	09/18/2008	656.26	10.65	645.61	-	-	645.61
	10/23/2008	656.26	11.02	645.24	-	-	645.24
	12/31/2008	656.26	7.55	648.71	-	-	648.71
	01/28/2009	656.26	8.54	647.72	-	-	647.72
	02/25/2009	656.26	8.35	647.91	-	-	647.91
	03/27/2009	656.26	8.66	647.60	-	-	647.60
	04/29/2009	656.26	8.49	647.77	-	-	647.77
	05/20/2009	656.26	8.25	648.01	-	-	648.01
	06/25/2009	656.26	8.22	648.04	-	-	648.04
	07/21/2009	656.26	9.14	647.12	-	-	647.12
	08/25/2009	656.26	9.70	646.56	-	-	646.56
	09/16/2009	656.26	10.46	645.80	-	-	645.80
	10/14/2009	656.26	11.32	644.94	-	-	644.94
	11/10/2009	656.26	11.78	644.48	-	-	644.48
	12/14/2009	656.26	11.86	644.40	-	-	644.40
	01/11/2010	656.26	11.99	644.27	-	-	644.27
	02/10/2010	656.26	12.44	643.82	-	-	643.82
	03/10/2010	656.26	13.23	643.03	-	-	643.03
	04/14/2010	656.26	12.66	643.60	-	-	643.60
	05/12/2010	656.26	12.81	643.45	-	-	643.45
	06/17/2010	656.26	13.21	643.05	-	-	643.05
	07/14/2010	656.26	13.31	642.95	-	-	642.95
	08/09/2010	656.26	13.57	642.69	-	-	642.69
	09/16/2010	656.26	13.41	642.85	-	-	642.85
	10/13/2010	656.26	11.81	644.45	-	-	644.45
	11/16/2010	656.26	12.22	644.04	-	-	644.04
	12/16/2010	656.26	11.51	644.75	-	-	644.75
	01/13/2011	656.26	11.79	644.47	-	-	644.47
	03/14/2011	656.26	10.98	645.28	-	-	645.28
	04/12/2011	656.26	11.73	644.53	-	-	644.53
	05/19/2011	656.26	10.13	646.13	-	-	646.13

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/20/2011	656.26	10.49	645.77	-	-	645.77
	07/13/2011	656.26	13.52	642.74	-	-	642.74
7-7M	04/04/2005	656.94	13.09	643.85	-	-	643.85
	05/16/2005	656.94	13.19	643.75	-	-	643.75
	06/13/2005	656.94	13.54	643.40	-	-	643.40
	07/11/2005	656.94	13.90	643.04	-	-	643.04
	08/22/2005	656.94	14.42	642.52	14.41	0.01	642.53
	10/17/2005	656.94	12.00	644.94	-	-	644.94
	01/09/2006	656.94	11.63	645.31	-	-	645.31
	04/03/2006	656.94	10.60	646.34	-	-	646.34
	05/31/2006	656.94	11.59	645.35	-	-	645.35
	06/12/2006	656.94	NR	-	NR	-	-
	08/02/2006	656.94	12.62	644.32	-	-	644.32
	09/06/2006	656.94	13.20	643.74	-	-	643.74
	11/01/2006	656.94	13.04	643.90	-	-	643.90
	01/09/2007	656.94	11.63	645.31	-	-	645.31
	05/07/2007	656.94	10.29	646.65	-	-	646.65
	07/24/2007	656.94	12.49	644.45	-	-	644.45
	10/16/2007	656.94	14.50	642.44	-	-	642.44
	01/11/2008	656.94	12.74	644.20	-	-	644.20
	07/07/2008	656.94	13.00	643.94	-	-	643.94
	09/18/2008	656.94	11.78	645.16	-	-	645.16
	10/23/2008	656.94	11.60	645.34	-	-	645.34
	12/31/2008	656.94	8.15	648.79	-	-	648.79
	01/28/2009	656.94	8.84	648.10	-	-	648.10
	02/25/2009	656.94	9.57	647.37	-	-	647.37
	03/27/2009	656.94	8.22	648.72	-	-	648.72
	04/29/2009	656.94	9.63	647.31	-	-	647.31
	05/20/2009	656.94	9.77	647.17	-	-	647.17
	06/25/2009	656.94	9.34	647.60	-	-	647.60
	07/21/2009	656.94	10.31	646.63	-	-	646.63
	08/25/2009	656.94	10.85	646.09	-	-	646.09
	09/16/2009	656.94	11.54	645.40	-	-	645.40
	10/14/2009	656.94	12.25	644.69	-	-	644.69
	11/10/2009	656.94	12.77	644.17	-	-	644.17
	12/14/2009	656.94	17.06	639.88	-	-	639.88
	01/11/2010	656.94	12.64	644.30	-	-	644.30
	02/10/2010	656.94	13.43	643.51	-	-	643.51
	03/10/2010	656.94	14.01	642.93	-	-	642.93
	04/14/2010	656.94	13.71	643.23	-	-	643.23
	05/12/2010	656.94	13.56	643.38	-	-	643.38
	06/17/2010	656.94	13.58	643.36	-	-	643.36
	07/14/2010	656.94	13.45	643.49	-	-	643.49
	08/09/2010	656.94	14.46	642.48	-	-	642.48
	09/16/2010	656.94	14.37	642.57	-	-	642.57
	10/13/2010	656.94	12.82	644.12	-	-	644.12
	11/16/2010	656.94	13.21	643.73	-	-	643.73
	12/16/2010	656.94	12.49	644.45	-	-	644.45
	01/13/2011	656.94	12.68	644.26	-	-	644.26



**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	03/14/2011	656.94	12.18	644.76	-	-	644.76
	04/12/2011	656.94	12.79	644.15	-	-	644.15
	05/19/2011	656.94	11.08	645.86	-	-	645.86
	06/20/2011	656.94	11.49	645.45	-	-	645.45
	07/13/2011	656.94	13.52	643.42	-	-	643.42
7-8M	04/04/2005	657.32	12.87	644.45	12.50	0.37	644.73
	05/16/2005	657.32	12.80	644.52	-	-	644.52
	06/13/2005	657.32	13.03	644.29	-	-	644.29
	07/11/2005	657.32	13.62	643.70	13.42	0.20	643.85
	08/22/2005	657.32	14.16	643.16	14.01	0.15	643.27
	10/17/2005	657.32	10.94	646.38	-	-	646.38
	01/09/2006	657.32	11.06	646.26	-	-	646.26
	04/03/2006	657.32	9.78	647.54	-	-	647.54
	05/31/2006	657.32	10.97	646.35	-	-	646.35
	06/12/2006	657.32	NR	-	NR	-	-
	08/02/2006	657.32	11.83	645.49	-	-	645.49
	09/06/2006	657.32	12.59	644.73	-	-	644.73
	11/01/2006	657.32	12.09	645.23	-	-	645.23
	01/09/2007	657.32	10.73	646.59	-	-	646.59
	05/07/2007	657.32	9.32	648.00	-	-	648.00
	07/24/2007	657.32	12.24	645.08	-	-	645.08
	10/16/2007	657.32	13.97	643.35	-	-	643.35
	01/11/2008	657.32	11.72	645.60	-	-	645.60
	07/07/2008	657.32	14.05	643.27	-	-	643.27
	09/18/2008	657.32	13.55	643.77	-	-	643.77
	10/23/2008	657.32	11.32	646.00	-	-	646.00
	12/31/2008	657.32	7.84	649.48	-	-	649.48
	01/28/2009	657.32	9.20	648.12	-	-	648.12
	02/25/2009	657.32	8.63	648.69	-	-	648.69
	03/27/2009	657.32	7.24	650.08	-	-	650.08
	04/29/2009	657.32	8.81	648.51	-	-	648.51
	05/20/2009	657.32	8.84	648.48	-	-	648.48
	06/25/2009	657.32	8.62	648.70	-	-	648.70
	07/21/2009	657.32	9.47	647.85	-	-	647.85
	08/25/2009	657.32	10.08	647.24	-	-	647.24
	09/16/2009	657.32	11.02	646.30	-	-	646.30
	10/14/2009	657.32	11.56	645.76	-	-	645.76
	11/10/2009	657.32	13.61	643.71	-	-	643.71
	12/14/2009	657.32	12.42	644.90	-	-	644.90
	01/11/2010	657.32	11.98	645.34	-	-	645.34
	02/10/2010	657.32	14.01	643.31	-	-	643.31
	03/10/2010	657.32	13.26	644.06	-	-	644.06
	04/14/2010	657.32	11.78	645.54	-	-	645.54
	05/12/2010	657.32	11.73	645.59	-	-	645.59
	06/17/2010	657.32	12.36	644.96	-	-	644.96
	07/14/2010	657.32	12.46	644.86	-	-	644.86
	08/09/2010	657.32	13.97	643.35	-	-	643.35
	09/16/2010	657.32	13.76	643.56	-	-	643.56
	10/13/2010	657.32	11.86	645.46	-	-	645.46

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	11/16/2010	657.32	12.73	644.59	-	-	644.59
	12/16/2010	657.32	11.93	645.39	-	-	645.39
	01/13/2011	657.32	12.25	645.07	-	-	645.07
	03/14/2011	657.32	10.82	646.50	-	-	646.50
	04/12/2011	657.32	13.16	644.16	-	-	644.16
	05/19/2011	657.32	11.27	646.05	-	-	646.05
	06/20/2011	657.32	10.92	646.40	-	-	646.40
	07/13/2011	657.32	13.52	643.80	-	-	643.80
7-9M	04/04/2005	657.97	13.50	644.47	-	-	644.47
	05/16/2005	657.97	13.64	644.33	13.60	0.04	644.36
	06/13/2005	657.97	13.93	644.04	-	-	644.04
	07/11/2005	657.97	14.39	643.58	14.28	0.11	643.66
	08/22/2005	657.97	14.86	643.11	14.78	0.08	643.17
	10/17/2005	657.97	12.38	645.59	-	-	645.59
	01/09/2006	657.97	12.01	645.96	-	-	645.96
	04/03/2006	657.97	10.99	646.98	-	-	646.98
	05/31/2006	657.97	11.96	646.01	-	-	646.01
	06/12/2006	657.97	NR	-	NR	-	-
	08/02/2006	657.97	12.79	645.18	-	-	645.18
	09/06/2006	657.97	13.52	644.45	-	-	644.45
	11/01/2006	657.97	13.14	644.83	-	-	644.83
	01/09/2007	657.97	11.90	646.07	-	-	646.07
	05/07/2007	657.97	10.64	647.33	-	-	647.33
	07/24/2007	657.97	12.92	645.05	-	-	645.05
	10/16/2007	657.97	14.86	643.11	-	-	643.11
	01/11/2008	657.97	12.91	645.06	-	-	645.06
	07/07/2008	657.97	14.45	643.52	-	-	643.52
7-10M	04/04/2005	659.20	11.49	647.71	-	-	647.71
	05/16/2005	659.20	12.65	646.55	-	-	646.55
	06/13/2005	659.20	13.14	646.06	-	-	646.06
	07/11/2005	659.20	13.21	645.99	-	-	645.99
	08/22/2005	659.20	14.90	644.30	-	-	644.30
	10/17/2005	659.20	10.95	648.25	-	-	648.25
	01/09/2006	659.20	11.79	647.41	-	-	647.41
	04/03/2006	659.20	11.12	648.08	-	-	648.08
	05/31/2006	659.20	11.99	647.21	-	-	647.21
	06/12/2006	659.20	NR	-	NR	-	-
	08/02/2006	659.20	12.69	646.51	-	-	646.51
	09/06/2006	659.20	13.32	645.88	-	-	645.88
	11/01/2006	659.20	11.54	647.66	-	-	647.66
	01/09/2007	659.20	11.62	647.58	-	-	647.58
	05/07/2007	659.20	10.65	648.55	-	-	648.55
	07/24/2007	659.20	12.56	646.64	-	-	646.64
	10/16/2007	659.20	15.03	644.17	-	-	644.17
	01/11/2008	659.20	11.63	647.57	-	-	647.57
	07/07/2008	659.20	13.45	645.75	-	-	645.75

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
7-11M	04/04/2005	660.48	15.73	644.75	-	-	644.75
	05/16/2005	660.48	15.74	644.74	-	-	644.74
	06/13/2005	660.48	16.04	644.44	-	-	644.44
	07/11/2005	660.48	16.37	644.11	-	-	644.11
	08/22/2005	660.48	16.93	643.55	-	-	643.55
	10/17/2005	660.48	14.94	645.54	-	-	645.54
	01/09/2006	660.48	14.17	646.31	-	-	646.31
	04/03/2006	660.48	13.13	647.35	-	-	647.35
	05/31/2006	660.48	14.13	646.35	-	-	646.35
	06/12/2006	660.48	NR	-	NR	-	-
	08/02/2006	660.48	14.95	645.53	-	-	645.53
	09/06/2006	660.48	15.67	644.81	-	-	644.81
	11/01/2006	660.48	15.53	644.95	-	-	644.95
	01/09/2007	660.48	14.21	646.27	-	-	646.27
	05/07/2007	660.48	12.92	647.56	-	-	647.56
	07/24/2007	660.48	15.07	645.41	-	-	645.41
	10/16/2007	660.48	16.95	643.53	-	-	643.53
	01/11/2008	660.48	15.50	644.98	-	-	644.98
	07/07/2008	660.48	16.10	644.38	-	-	644.38
	09/18/2008	660.48	14.35	646.13	-	-	646.13
	10/23/2008	660.48	14.55	645.93	-	-	645.93
	12/31/2008	660.48	11.48	649.00	-	-	649.00
	01/28/2009	660.48	12.24	648.24	-	-	648.24
	02/25/2009	660.48	12.35	648.13	-	-	648.13
	03/27/2009	660.48	10.72	649.76	-	-	649.76
	04/29/2009	660.48	12.27	648.21	-	-	648.21
	05/20/2009	660.48	12.38	648.10	-	-	648.10
	06/25/2009	660.48	11.34	649.14	-	-	649.14
	07/21/2009	660.48	12.98	647.50	-	-	647.50
	08/25/2009	660.48	13.41	647.07	-	-	647.07
	09/16/2009	660.48	14.14	646.34	-	-	646.34
	10/14/2009	660.48	14.82	645.66	-	-	645.66
	11/10/2009	660.48	15.92	644.56	-	-	644.56
	12/14/2009	660.48	15.21	645.27	-	-	645.27
	01/11/2010	660.48	15.39	645.09	-	-	645.09
	02/10/2010	660.48	16.01	644.47	-	-	644.47
	03/10/2010	660.48	16.68	643.80	-	-	643.80
	04/14/2010	660.48	16.21	644.27	-	-	644.27
	05/12/2010	660.48	16.38	644.10	-	-	644.10
	06/17/2010	660.48	16.34	644.14	-	-	644.14
	07/14/2010	660.48	17.21	643.27	-	-	643.27
	08/09/2010	660.48	17.02	643.46	-	-	643.46
	09/16/2010	660.48	16.91	643.57	-	-	643.57
	10/13/2010	660.48	15.33	645.15	-	-	645.15
	11/16/2010	660.48	15.68	644.80	-	-	644.80
	12/16/2010	660.48	14.99	645.49	-	-	645.49
	01/13/2011	660.48	15.31	645.17	-	-	645.17
	03/14/2011	660.48	14.55	645.93	-	-	645.93
	04/12/2011	660.48	15.31	645.17	-	-	645.17
	05/19/2011	660.48	13.58	646.90	-	-	646.90

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/20/2011	660.48	13.87	646.61	-	-	646.61
	07/13/2011	660.48	13.52	646.96	-	-	646.96
7-12M	04/04/2005	660.77	15.13	645.64	-	-	645.64
	05/16/2005	660.77	15.20	645.57	-	-	645.57
	06/13/2005	660.77	15.51	645.26	-	-	645.26
	07/11/2005	660.77	15.77	645.00	-	-	645.00
	08/22/2005	660.77	16.40	644.37	-	-	644.37
	10/17/2005	660.77	14.30	646.47	-	-	646.47
	01/09/2006	660.77	13.66	647.11	-	-	647.11
	04/03/2006	660.77	12.60	648.17	-	-	648.17
	05/31/2006	660.77	13.58	647.19	-	-	647.19
	06/12/2006	660.77	NR	-	NR	-	-
	08/02/2006	660.77	14.26	646.51	-	-	646.51
	09/06/2006	660.77	15.12	645.65	-	-	645.65
	11/01/2006	660.77	14.81	645.96	-	-	645.96
	01/09/2007	660.77	13.60	647.17	-	-	647.17
	05/07/2007	660.77	12.31	648.46	-	-	648.46
	07/24/2007	660.77	14.54	646.23	-	-	646.23
	10/16/2007	660.77	16.37	644.40	-	-	644.40
	01/11/2008	660.77	14.88	645.89	-	-	645.89
	07/07/2008	660.77	15.10	645.67	-	-	645.67
8-1M	04/04/2005	654.86	10.53	644.33	-	-	644.33
	05/16/2005	654.86	10.79	644.07	-	-	644.07
	06/13/2005	654.86	11.13	643.73	-	-	643.73
	07/11/2005	654.86	11.55	643.31	-	-	643.31
	08/22/2005	654.86	12.02	642.84	-	-	642.84
	10/17/2005	654.86	9.68	645.18	-	-	645.18
	01/09/2006	654.86	9.13	645.73	-	-	645.73
	04/03/2006	654.86	8.07	646.79	-	-	646.79
	05/31/2006	654.86	9.07	645.79	-	-	645.79
	06/12/2006	654.86	NR	-	NR	-	-
	08/02/2006	654.86	NR	-	NR	-	-
	09/06/2006	654.86	10.92	643.94	-	-	643.94
	11/01/2006	654.86	10.39	644.47	-	-	644.47
	01/09/2007	654.86	9.10	645.76	-	-	645.76
	05/07/2007	654.86	7.76	647.10	-	-	647.10
	07/24/2007	654.86	10.06	644.80	-	-	644.80
	10/16/2007	654.86	12.10	642.76	-	-	642.76
	01/11/2008	654.86	10.19	644.67	-	-	644.67
	07/07/2008	654.86	9.60	645.26	-	-	645.26
	09/18/2008	654.86	9.50	645.36	-	-	645.36
	10/23/2008	654.86	8.35	646.51	-	-	646.51
	12/31/2008	654.86	6.12	648.74	-	-	648.74
	01/28/2009	654.86	9.35	645.51	-	-	645.51
	02/25/2009	654.86	7.23	647.63	-	-	647.63
	03/27/2009	654.86	7.56	647.30	-	-	647.30
	04/29/2009	654.86	7.25	647.61	-	-	647.61
	05/20/2009	654.86	7.21	647.65	-	-	647.65

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	06/25/2009	654.86	7.11	647.75	-	-	647.75
	07/21/2009	654.86	7.92	646.94	-	-	646.94
	08/25/2009	654.86	8.52	646.34	-	-	646.34
	09/16/2009	654.86	9.45	645.41	-	-	645.41
	10/14/2009	654.86	10.46	644.40	-	-	644.40
	11/10/2009	654.86	10.83	644.03	-	-	644.03
	12/14/2009	654.86	10.66	644.20	-	-	644.20
	01/11/2010	654.86	10.73	644.13	-	-	644.13
	02/10/2010	654.86	11.46	643.40	-	-	643.40
	03/10/2010	654.86	12.24	642.62	-	-	642.62
	04/14/2010	654.86	11.71	643.15	-	-	643.15
	05/12/2010	654.86	12.37	642.49	-	-	642.49
	06/17/2010	654.86	12.74	642.12	-	-	642.12
	07/14/2010	654.86	13.07	641.79	-	-	641.79
	08/09/2010	654.86	12.48	642.38	-	-	642.38
	09/16/2010	654.86	12.57	642.29	-	-	642.29
	10/13/2010	654.86	10.98	643.88	-	-	643.88
	11/16/2010	654.86	11.31	643.55	-	-	643.55
	12/16/2010	654.86	10.54	644.32	-	-	644.32
	01/13/2011	654.86	10.89	643.97	-	-	643.97
	03/14/2011	654.86	10.15	644.71	-	-	644.71
	04/12/2011	654.86	10.47	644.39	-	-	644.39
	05/19/2011	654.86	8.59	646.27	-	-	646.27
	06/20/2011	654.86	9.51	645.35	-	-	645.35
	07/13/2011	654.86	13.52	641.34	-	-	641.34
8-2M	04/04/2005	655.33	10.08	645.25	-	-	645.25
	05/16/2005	655.33	10.39	644.94	-	-	644.94
	06/13/2005	655.33	10.70	644.63	-	-	644.63
	07/11/2005	655.33	11.08	644.25	-	-	644.25
	08/22/2005	655.33	11.67	643.66	-	-	643.66
	10/17/2005	655.33	9.25	646.08	-	-	646.08
	01/09/2006	655.33	8.75	646.58	-	-	646.58
	04/03/2006	655.33	7.59	647.74	-	-	647.74
	05/31/2006	655.33	8.70	646.63	-	-	646.63
	06/12/2006	655.33	NR	-	NR	-	-
	08/02/2006	655.33	NR	-	NR	-	-
	09/06/2006	655.33	10.51	644.82	-	-	644.82
	11/01/2006	655.33	9.80	645.53	-	-	645.53
	01/09/2007	655.33	8.58	646.75	-	-	646.75
	05/07/2007	655.33	7.28	648.05	-	-	648.05
	07/24/2007	655.33	9.90	645.43	-	-	645.43
	10/16/2007	655.33	11.67	643.66	-	-	643.66
	01/11/2008	655.33	9.67	645.66	-	-	645.66
	07/07/2008	655.33	9.50	645.83	-	-	645.83
	09/18/2008	655.33	9.15	646.18	-	-	646.18
	10/23/2008	655.33	9.10	646.23	-	-	646.23
	12/31/2008	655.33	6.05	649.28	-	-	649.28
	01/28/2009	655.33	7.05	648.28	-	-	648.28
	02/25/2009	655.33	7.01	648.32	-	-	648.32

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	03/27/2009	655.33	7.14	648.19	-	-	648.19
	04/29/2009	655.33	6.86	648.47	-	-	648.47
	05/20/2009	655.33	6.72	648.61	-	-	648.61
	06/25/2009	655.33	6.76	648.57	-	-	648.57
	07/21/2009	655.33	7.54	647.79	-	-	647.79
	08/25/2009	655.33	8.12	647.21	-	-	647.21
	09/16/2009	655.33	9.23	646.10	-	-	646.10
	10/14/2009	655.33	10.01	645.32	9.91	0.10	645.42
	11/10/2009	655.33	10.52	644.81	-	-	644.81
	12/14/2009	655.33	10.68	644.65	-	-	644.65
	01/11/2010	655.33	10.74	644.59	-	-	644.59
	02/10/2010	655.33	11.08	644.25	-	-	644.25
	03/10/2010	655.33	11.64	643.69	-	-	643.69
	04/14/2010	655.33	10.94	644.39	-	-	644.39
	05/12/2010	655.33	11.59	643.74	-	-	643.74
	06/17/2010	655.33	12.01	643.32	-	-	643.32
	07/14/2010	655.33	17.68	637.65	-	-	637.65
	08/09/2010	655.33	12.17	643.16	-	-	643.16
	09/16/2010	655.33	13.25	642.08	-	-	642.08
	10/13/2010	655.33	10.61	644.72	-	-	644.72
	11/16/2010	655.33	11.03	644.30	-	-	644.30
	12/16/2010	655.33	10.17	645.16	-	-	645.16
	01/13/2011	655.33	10.69	644.64	-	-	644.64
	03/14/2011	655.33	9.91	645.42	-	-	645.42
	04/12/2011	655.33	10.31	645.02	-	-	645.02
	05/19/2011	655.33	8.77	646.56	-	-	646.56
	06/20/2011	655.33	9.29	646.04	-	-	646.04
	07/13/2011	655.33	13.52	641.81	-	-	641.81
8-3M	04/04/2005	655.55	10.77	644.78	-	-	644.78
	05/16/2005	655.55	11.20	644.35	-	-	644.35
	06/13/2005	655.55	11.42	644.13	-	-	644.13
	07/11/2005	655.55	11.82	643.73	-	-	643.73
	08/22/2005	655.55	12.34	643.21	-	-	643.21
	10/17/2005	655.55	9.80	645.75	-	-	645.75
	01/09/2006	655.55	9.34	646.21	-	-	646.21
	04/03/2006	655.55	8.28	647.27	-	-	647.27
	05/31/2006	655.55	9.30	646.25	-	-	646.25
	06/12/2006	655.55	NR	-	NR	-	-
	08/02/2006	655.55	NR	-	NR	-	-
	09/06/2006	655.55	11.05	644.50	-	-	644.50
	11/01/2006	655.55	10.52	645.03	-	-	645.03
	01/09/2007	655.55	9.26	646.29	-	-	646.29
	05/07/2007	655.55	7.96	647.59	-	-	647.59
	07/24/2007	655.55	10.48	645.07	-	-	645.07
	10/16/2007	655.55	12.27	643.28	-	-	643.28
	01/11/2008	655.55	10.37	645.18	-	-	645.18
	07/07/2008	655.55	10.25	645.30	-	-	645.30

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
8-4M	04/04/2005	656.56	10.78	645.78	-	-	645.78
	05/16/2005	656.56	11.17	645.39	-	-	645.39
	06/13/2005	656.56	11.47	645.09	-	-	645.09
	07/11/2005	656.56	11.87	644.69	-	-	644.69
	08/22/2005	656.56	12.52	644.04	-	-	644.04
	10/17/2005	656.56	9.90	646.66	-	-	646.66
	01/09/2006	656.56	9.46	647.10	-	-	647.10
	04/03/2006	656.56	8.32	648.24	-	-	648.24
	05/31/2006	656.56	9.41	647.15	-	-	647.15
	06/12/2006	656.56	NR	-	NR	-	-
	08/02/2006	656.56	NR	-	NR	-	-
	09/06/2006	656.56	11.16	645.40	-	-	645.40
	11/01/2006	656.56	10.42	646.14	-	-	646.14
	01/09/2007	656.56	9.13	647.43	-	-	647.43
	05/07/2007	656.56	7.77	648.79	7.71	0.06	648.84
	07/24/2007	656.56	10.93	645.63	-	-	645.63
	10/16/2007	656.56	12.38	644.18	-	-	644.18
	01/11/2008	656.56	10.39	646.17	-	-	646.17
07/07/2008	656.56	10.40	646.16	-	-	646.16	
8-5M	04/04/2005	656.32	11.03	645.29	-	-	645.29
	05/16/2005	656.32	11.49	644.83	-	-	644.83
	06/13/2005	656.32	11.68	644.64	-	-	644.64
	07/11/2005	656.32	12.05	644.27	-	-	644.27
	08/22/2005	656.32	12.65	643.67	-	-	643.67
	10/17/2005	656.32	10.03	646.29	-	-	646.29
	01/09/2006	656.32	9.60	646.72	-	-	646.72
	04/03/2006	656.32	8.53	647.79	-	-	647.79
	05/31/2006	656.32	9.54	646.78	-	-	646.78
	06/12/2006	656.32	NR	-	NR	-	-
	08/02/2006	656.32	NR	-	NR	-	-
	09/06/2006	656.32	11.21	645.11	-	-	645.11
	11/01/2006	656.32	10.69	645.63	-	-	645.63
	01/09/2007	656.32	9.50	646.82	-	-	646.82
	05/07/2007	656.32	8.19	648.13	-	-	648.13
	07/24/2007	656.32	10.90	645.42	-	-	645.42
	10/16/2007	656.32	12.49	643.83	-	-	643.83
	01/11/2008	656.32	10.61	645.71	-	-	645.71
07/07/2008	656.32	11.10	645.22	-	-	645.22	
8-6M	04/04/2005	658.69	12.66	646.03	-	-	646.03
	05/16/2005	658.69	13.10	645.59	-	-	645.59
	06/13/2005	658.69	13.30	645.39	-	-	645.39
	07/11/2005	658.69	13.62	645.07	-	-	645.07
	08/22/2005	658.69	14.26	644.43	-	-	644.43
	10/17/2005	658.69	11.69	647.00	-	-	647.00
	01/09/2006	658.69	11.18	647.51	-	-	647.51
	04/03/2006	658.69	10.07	648.62	-	-	648.62
	05/31/2006	658.69	11.15	647.54	-	-	647.54
	06/12/2006	658.69	NR	-	NR	-	-

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	08/02/2006	658.69	NR	-	NR	-	-
	09/06/2006	658.69	12.84	645.85	-	-	645.85
	11/01/2006	658.69	12.25	646.44	-	-	646.44
	01/09/2007	658.69	11.09	647.60	-	-	647.60
	05/07/2007	658.69	9.81	648.88	-	-	648.88
	07/24/2007	658.69	12.59	646.10	-	-	646.10
	10/16/2007	658.69	14.11	644.58	-	-	644.58
	01/11/2008	658.69	12.27	646.42	-	-	646.42
	07/07/2008	658.69	12.50	646.19	-	-	646.19
8-7M	04/04/2005	659.02	13.46	645.56	-	-	645.56
	05/16/2005	659.02	13.83	645.19	-	-	645.19
	06/13/2005	659.02	14.03	644.99	-	-	644.99
	07/11/2005	659.02	14.36	644.66	-	-	644.66
	08/22/2005	659.02	15.03	643.99	-	-	643.99
	10/17/2005	659.02	12.44	646.58	-	-	646.58
	01/09/2006	659.02	11.93	647.09	-	-	647.09
	04/03/2006	659.02	10.87	648.15	-	-	648.15
	05/31/2006	659.02	11.83	647.19	-	-	647.19
	06/12/2006	659.02	NR	-	NR	-	-
	08/02/2006	659.02	NR	-	NR	-	-
	09/06/2006	659.02	13.45	645.57	-	-	645.57
	11/01/2006	659.02	12.99	646.03	-	-	646.03
	01/09/2007	659.02	11.81	647.21	-	-	647.21
	05/07/2007	659.02	10.48	648.54	-	-	648.54
	07/24/2007	659.02	13.28	645.74	-	-	645.74
	10/16/2007	659.02	14.84	644.18	-	-	644.18
	01/11/2008	659.02	12.96	646.06	-	-	646.06
	07/07/2008	659.02	13.85	645.17	-	-	645.17
8-8M	04/04/2005	659.46	13.37	646.09	-	-	646.09
	05/16/2005	659.46	13.55	645.91	-	-	645.91
	06/13/2005	659.46	13.86	645.60	-	-	645.60
	07/11/2005	659.46	14.09	645.37	-	-	645.37
	08/22/2005	659.46	14.55	644.91	-	-	644.91
	10/17/2005	659.46	12.43	647.03	-	-	647.03
	01/09/2006	659.46	11.84	647.62	-	-	647.62
	04/03/2006	659.46	10.80	648.66	-	-	648.66
	05/31/2006	659.46	11.69	647.77	-	-	647.77
	06/12/2006	659.46	NR	-	NR	-	-
	08/02/2006	659.46	NR	-	NR	-	-
	09/06/2006	659.46	13.26	646.20	-	-	646.20
	11/01/2006	659.46	12.93	646.53	-	-	646.53
	01/09/2007	659.46	11.70	647.76	-	-	647.76
	05/07/2007	659.46	10.43	649.03	-	-	649.03
	07/24/2007	659.46	12.62	646.84	-	-	646.84
	10/16/2007	659.46	14.53	644.93	-	-	644.93
	01/11/2008	659.46	12.95	646.51	-	-	646.51
	07/07/2008	659.46	12.45	647.01	-	-	647.01
	09/18/2008	659.46	12.00	647.46	-	-	647.46



**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	10/23/2008	659.46	11.60	647.86	-	-	647.86
	12/31/2008	659.46	9.12	650.34	-	-	650.34
	01/28/2009	659.46	9.80	649.66	-	-	649.66
	02/25/2009	659.46	9.82	649.64	-	-	649.64
	03/27/2009	659.46	10.20	649.26	-	-	649.26
	04/29/2009	659.46	9.81	649.65	-	-	649.65
	05/20/2009	659.46	9.86	649.60	-	-	649.60
	06/25/2009	659.46	9.62	649.84	-	-	649.84
	07/21/2009	659.46	10.36	649.10	-	-	649.10
	08/25/2009	659.46	10.86	648.60	-	-	648.60
	09/16/2009	659.46	11.78	647.68	-	-	647.68
	10/14/2009	659.46	12.68	646.78	-	-	646.78
	11/10/2009	659.46	13.07	646.39	-	-	646.39
	12/14/2009	659.46	12.58	646.88	-	-	646.88
	01/11/2010	659.46	12.76	646.70	-	-	646.70
	02/10/2010	659.46	14.68	644.78	-	-	644.78
	03/10/2010	659.46	13.98	645.48	-	-	645.48
	04/14/2010	659.46	12.99	646.47	-	-	646.47
	05/12/2010	659.46	14.63	644.83	-	-	644.83
	06/17/2010	659.46	14.42	645.04	-	-	645.04
	07/14/2010	659.46	15.03	644.43	-	-	644.43
	08/09/2010	659.46	14.79	644.67	-	-	644.67
	09/16/2010	659.46	14.78	644.68	-	-	644.68
	10/13/2010	659.46	13.19	646.27	-	-	646.27
	11/16/2010	659.46	11.96	647.50	-	-	647.50
	12/16/2010	659.46	12.74	646.72	-	-	646.72
	01/13/2011	659.46	13.15	646.31	-	-	646.31
	03/14/2011	659.46	12.14	647.32	-	-	647.32
	04/12/2011	659.46	12.88	646.58	-	-	646.58
	05/19/2011	659.46	11.81	647.65	-	-	647.65
	06/20/2011	659.46	11.94	647.52	-	-	647.52
	07/13/2011	659.46	13.52	645.94	-	-	645.94
9-1M	04/04/2005	656.72	10.50	646.22	-	-	646.22
	05/16/2005	656.72	10.70	646.02	-	-	646.02
	06/13/2005	656.72	11.16	645.56	-	-	645.56
	07/11/2005	656.72	11.60	645.12	11.56	0.04	645.15
	08/22/2005	656.72	12.50	644.22	12.17	0.33	644.47
	10/17/2005	656.72	9.25	647.47	-	-	647.47
	01/09/2006	656.72	9.12	647.60	-	-	647.60
	04/03/2006	656.72	8.12	648.60	-	-	648.60
	05/31/2006	656.72	9.18	647.54	-	-	647.54
	06/12/2006	656.72	NR	-	NR	-	-
	08/02/2006	656.72	NR	-	NR	-	-
	09/06/2006	656.72	11.06	645.66	-	-	645.66
	11/01/2006	656.72	10.15	646.57	-	-	646.57
	01/09/2007	656.72	9.10	647.62	-	-	647.62
	05/07/2007	656.72	7.78	648.94	-	-	648.94
	07/24/2007	656.72	10.25	646.47	-	-	646.47
	10/16/2007	656.72	12.35	644.37	12.22	0.13	644.47

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/11/2008	656.72	9.94	646.78	-	-	646.78
	07/07/2008	656.72	9.65	647.07	-	-	647.07
9-2M	04/04/2005	655.60	7.93	647.67	-	-	647.67
	05/16/2005	655.60	8.41	647.19	-	-	647.19
	06/13/2005	655.60	8.93	646.67	-	-	646.67
	07/11/2005	655.60	9.06	646.54	-	-	646.54
	08/22/2005	655.60	9.88	645.72	-	-	645.72
	10/17/2005	655.60	7.28	648.32	-	-	648.32
	01/09/2006	655.60	7.22	648.38	-	-	648.38
	04/03/2006	655.60	6.30	649.30	-	-	649.30
	05/31/2006	655.60	7.19	648.41	-	-	648.41
	06/12/2006	655.60	NR	-	NR	-	-
	08/02/2006	655.60	NR	-	NR	-	-
	09/06/2006	655.60	9.08	646.52	-	-	646.52
	11/01/2006	655.60	8.13	647.47	-	-	647.47
	01/09/2007	655.60	7.23	648.37	-	-	648.37
	05/07/2007	655.60	5.94	649.66	-	-	649.66
	07/24/2007	655.60	7.88	647.72	-	-	647.72
	10/16/2007	655.60	9.95	645.65	-	-	645.65
	01/11/2008	655.60	7.74	647.86	-	-	647.86
	07/07/2008	655.60	7.30	648.30	-	-	648.30
	09/18/2008	655.60	7.85	647.75	-	-	647.75
	10/23/2008	655.60	8.15	647.45	-	-	647.45
	12/31/2008	655.60	4.66	650.94	-	-	650.94
	01/28/2009	655.60	5.72	649.88	-	-	649.88
	02/25/2009	655.60	6.64	648.96	-	-	648.96
	03/27/2009	655.60	5.60	650.00	-	-	650.00
	04/29/2009	655.60	5.41	650.19	-	-	650.19
	05/20/2009	655.60	5.18	650.42	-	-	650.42
	06/25/2009	655.60	9.47	646.13	-	-	646.13
	07/21/2009	655.60	6.08	649.52	-	-	649.52
	08/25/2009	655.60	6.58	649.02	-	-	649.02
	09/16/2009	655.60	8.15	647.45	-	-	647.45
	10/14/2009	655.60	9.21	646.39	-	-	646.39
	11/10/2009	655.60	4.38	651.22	-	-	651.22
	12/14/2009	655.60	8.89	646.71	-	-	646.71
	01/11/2010	655.60	9.23	646.37	-	-	646.37
	02/10/2010	655.60	9.07	646.53	-	-	646.53
	03/10/2010	655.60	9.41	646.19	-	-	646.19
	04/14/2010	655.60	9.48	646.12	-	-	646.12
	05/12/2010	655.60	10.74	644.86	-	-	644.86
	06/17/2010	655.60	10.99	644.61	-	-	644.61
	07/14/2010	655.60	11.07	644.53	-	-	644.53
	08/09/2010	655.60	10.55	645.05	-	-	645.05
	09/16/2010	655.60	10.99	644.61	-	-	644.61
	10/13/2010	655.60	8.84	646.76	-	-	646.76
	11/16/2010	655.60	10.98	644.62	-	-	644.62
	12/16/2010	655.60	8.91	646.69	-	-	646.69
	01/13/2011	655.60	9.62	645.98	-	-	645.98

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	03/14/2011	655.60	8.33	647.27	-	-	647.27
	04/12/2011	655.60	9.23	646.37	-	-	646.37
	05/19/2011	655.60	7.71	647.89	-	-	647.89
	06/20/2011	655.60	8.50	647.10	-	-	647.10
	07/13/2011	655.60	13.52	642.08	-	-	642.08
9-3M	04/04/2005	656.50	9.39	647.11	-	-	647.11
	05/16/2005	656.50	10.26	646.24	-	-	646.24
	06/13/2005	656.50	10.67	645.83	-	-	645.83
	07/11/2005	656.50	10.97	645.53	-	-	645.53
	08/22/2005	656.50	11.64	644.86	11.60	0.04	644.89
	10/17/2005	656.50	8.31	648.19	-	-	648.19
	01/09/2006	656.50	8.49	648.01	-	-	648.01
	04/03/2006	656.50	7.44	649.06	-	-	649.06
	05/31/2006	656.50	8.63	647.87	-	-	647.87
	06/12/2006	656.50	NR	-	NR	-	-
	08/02/2006	656.50	NR	-	NR	-	-
	09/06/2006	656.50	10.41	646.09	-	-	646.09
	11/01/2006	656.50	9.47	647.03	-	-	647.03
	01/09/2007	656.50	8.31	648.19	-	-	648.19
	05/07/2007	656.50	7.12	649.38	-	-	649.38
	07/24/2007	656.50	9.84	646.66	-	-	646.66
	10/16/2007	656.50	11.59	644.91	-	-	644.91
	01/11/2008	656.50	9.37	647.13	-	-	647.13
	07/07/2008	656.50	9.35	647.15	-	-	647.15
10-1S	04/04/2005	656.86	8.50	648.36	-	-	648.36
	05/16/2005	656.86	9.05	647.81	-	-	647.81
	06/13/2005	656.86	9.07	647.79	-	-	647.79
	07/11/2005	656.86	9.55	647.31	-	-	647.31
	08/22/2005	656.86	10.55	646.31	-	-	646.31
	10/17/2005	656.86	8.36	648.50	-	-	648.50
	01/09/2006	656.86	7.95	648.91	-	-	648.91
	04/03/2006	656.86	6.97	649.89	-	-	649.89
	05/31/2006	656.86	7.91	648.95	-	-	648.95
	06/12/2006	656.86	NR	-	NR	-	-
	08/02/2006	656.86	NR	-	NR	-	-
	09/06/2006	656.86	9.65	647.21	-	-	647.21
	11/01/2006	656.86	8.69	648.17	-	-	648.17
	01/09/2007	656.86	7.64	649.22	-	-	649.22
	05/07/2007	656.86	6.68	650.18	-	-	650.18
	07/24/2007	656.86	8.41	648.45	-	-	648.45
	10/16/2007	656.86	10.60	646.26	-	-	646.26
	01/11/2008	656.86	8.56	648.30	-	-	648.30
10-2S	04/04/2005	657.78	9.75	648.03	-	-	648.03
	05/16/2005	657.78	10.34	647.44	-	-	647.44
	06/13/2005	657.78	10.92	646.86	-	-	646.86
	07/11/2005	657.78	10.66	647.12	-	-	647.12
	08/22/2005	657.78	11.66	646.12	-	-	646.12

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	10/17/2005	657.78	9.25	648.53	-	-	648.53
	01/09/2006	657.78	8.96	648.82	-	-	648.82
	04/03/2006	657.78	8.10	649.68	-	-	649.68
	05/31/2006	657.78	8.96	648.82	-	-	648.82
	06/12/2006	657.78	NR	-	NR	-	-
	08/02/2006	657.78	NR	-	NR	-	-
	09/06/2006	657.78	10.68	647.10	-	-	647.10
	11/01/2006	657.78	9.78	648.00	-	-	648.00
	01/09/2007	657.78	8.89	648.89	-	-	648.89
	05/07/2007	657.78	7.68	650.10	-	-	650.10
	07/24/2007	657.78	9.63	648.15	-	-	648.15
	10/16/2007	657.78	11.84	645.94	-	-	645.94
	01/11/2008	657.78	9.75	648.03	-	-	648.03
	09/18/2008	657.78	9.22	648.56	-	-	648.56
	10/23/2008	657.78	9.80	647.98	-	-	647.98
	12/31/2008	657.78	6.46	651.32	-	-	651.32
	01/28/2009	657.78	NR	-	NR	-	-
	02/25/2009	657.78	6.32	651.46	-	-	651.46
	03/27/2009	657.78	7.29	650.49	-	-	650.49
	04/29/2009	657.78	6.88	650.90	-	-	650.90
	05/20/2009	657.78	6.25	651.53	-	-	651.53
	06/25/2009	657.78	6.97	650.81	-	-	650.81
	07/21/2009	657.78	7.53	650.25	-	-	650.25
	08/25/2009	657.78	7.62	650.16	-	-	650.16
	09/16/2009	657.78	16.96	640.82	-	-	640.82
	10/14/2009	657.78	10.61	647.17	-	-	647.17
	11/10/2009	657.78	10.93	646.85	-	-	646.85
	12/14/2009	657.78	11.31	646.47	-	-	646.47
	01/11/2010	657.78	11.72	646.06	-	-	646.06
	02/10/2010	657.78	11.74	646.04	-	-	646.04
	03/10/2010	657.78	11.99	645.79	-	-	645.79
	04/14/2010	657.78	11.91	645.87	-	-	645.87
	05/12/2010	657.78	12.25	645.53	-	-	645.53
	06/17/2010	657.78	12.54	645.24	-	-	645.24
	07/14/2010	657.78	12.73	645.05	-	-	645.05
	08/09/2010	657.78	12.39	645.39	-	-	645.39
	09/16/2010	657.78	12.63	645.15	-	-	645.15
	10/13/2010	657.78	10.59	647.19	-	-	647.19
	11/16/2010	657.78	10.89	646.89	-	-	646.89
	12/16/2010	657.78	NR	-	NR	-	-
	01/13/2011	657.78	NR	-	NR	-	-
	03/14/2011	657.78	10.12	647.66	-	-	647.66
	04/12/2011	657.78	10.81	646.97	-	-	646.97
	05/19/2011	657.78	9.58	648.20	-	-	648.20
	06/20/2011	657.78	9.91	647.87	-	-	647.87
	07/13/2011	657.78	13.52	644.26	-	-	644.26
10-3S	04/04/2005	658.69	10.35	648.34	-	-	648.34
	05/16/2005	658.69	11.10	647.59	-	-	647.59
	06/13/2005	658.69	11.74	646.95	-	-	646.95

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	07/11/2005	658.69	11.38	647.31	-	-	647.31
	08/22/2005	658.69	12.53	646.16	-	-	646.16
	10/17/2005	658.69	10.08	648.61	-	-	648.61
	01/09/2006	658.69	9.77	648.92	-	-	648.92
	04/03/2006	658.69	8.99	649.70	-	-	649.70
	05/31/2006	658.69	9.79	648.90	-	-	648.90
	06/12/2006	658.69	NR	-	NR	-	-
	08/02/2006	658.69	NR	-	NR	-	-
	09/06/2006	658.69	11.41	647.28	-	-	647.28
	11/01/2006	658.69	10.55	648.14	-	-	648.14
	01/09/2007	658.69	9.73	648.96	-	-	648.96
	05/07/2007	658.69	8.51	650.18	-	-	650.18
	07/24/2007	658.69	10.44	648.25	-	-	648.25
	10/16/2007	658.69	12.67	646.02	-	-	646.02
	01/11/2008	658.69	10.41	648.28	-	-	648.28
10-4S	04/04/2005	659.65	11.24	648.41	-	-	648.41
	05/16/2005	659.65	11.87	647.78	-	-	647.78
	06/13/2005	659.65	12.61	647.04	-	-	647.04
	07/11/2005	659.65	12.30	647.35	-	-	647.35
	08/22/2005	659.65	12.74	646.91	-	-	646.91
	10/17/2005	659.65	11.38	648.27	-	-	648.27
	01/09/2006	659.65	11.00	648.65	-	-	648.65
	04/03/2006	659.65	NR	-	NR	-	-
	05/31/2006	659.65	10.94	648.71	-	-	648.71
	06/12/2006	659.65	NR	-	NR	-	-
	08/02/2006	659.65	NR	-	NR	-	-
	09/06/2006	659.65	12.21	647.44	-	-	647.44
	11/01/2006	659.65	11.75	647.90	-	-	647.90
	01/09/2007	659.65	10.68	648.97	-	-	648.97
	05/07/2007	659.65	9.75	649.90	-	-	649.90
	07/24/2007	659.65	11.57	648.08	-	-	648.08
	10/16/2007	659.65	13.25	646.40	-	-	646.40
	01/11/2008	659.65	NR	-	NR	-	-
10-5S	04/04/2005	661.74	15.04	646.70	-	-	646.70
	05/16/2005	661.74	15.18	646.56	-	-	646.56
	06/13/2005	661.74	15.59	646.15	-	-	646.15
	07/11/2005	661.74	15.66	646.08	-	-	646.08
	08/22/2005	661.74	16.26	645.48	-	-	645.48
	10/17/2005	661.74	14.44	647.30	-	-	647.30
	01/09/2006	661.74	13.68	648.06	-	-	648.06
	04/03/2006	661.74	12.72	649.02	-	-	649.02
	05/31/2006	661.74	13.58	648.16	-	-	648.16
	06/12/2006	661.74	NR	-	NR	-	-
	08/02/2006	661.74	NR	-	NR	-	-
	09/06/2006	661.74	15.09	646.65	-	-	646.65
	11/01/2006	661.74	14.73	647.01	-	-	647.01
	01/09/2007	661.74	13.62	648.12	-	-	648.12
	05/07/2007	661.74	12.36	649.38	-	-	649.38

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	07/24/2007	661.74	14.30	647.44	-	-	647.44
	10/16/2007	661.74	16.23	645.51	-	-	645.51
	01/11/2008	661.74	15.01	646.73	-	-	646.73
10-6S	04/04/2005	662.91	16.28	646.63	-	-	646.63
	05/16/2005	662.91	16.38	646.53	-	-	646.53
	06/13/2005	662.91	16.78	646.13	-	-	646.13
	07/11/2005	662.91	16.85	646.06	-	-	646.06
	08/22/2005	662.91	17.33	645.58	-	-	645.58
	10/17/2005	662.91	15.68	647.23	-	-	647.23
	01/09/2006	662.91	14.89	648.02	-	-	648.02
	04/03/2006	662.91	13.96	648.95	-	-	648.95
	05/31/2006	662.91	14.83	648.08	-	-	648.08
	06/12/2006	662.91	NR	-	NR	-	-
	08/02/2006	662.91	NR	-	NR	-	-
	09/06/2006	662.91	16.28	646.63	-	-	646.63
	11/01/2006	662.91	15.98	646.93	-	-	646.93
	01/09/2007	662.91	14.86	648.05	-	-	648.05
	05/07/2007	662.91	13.66	649.25	-	-	649.25
	07/24/2007	662.91	15.48	647.43	-	-	647.43
	10/16/2007	662.91	17.25	645.66	-	-	645.66
	01/11/2008	662.91	16.28	646.63	-	-	646.63
	09/18/2008	662.91	15.18	647.73	-	-	647.73
	10/23/2008	662.91	15.50	647.41	-	-	647.41
	12/31/2008	662.91	12.45	650.46	-	-	650.46
	01/28/2009	662.91	13.15	649.76	-	-	649.76
	02/25/2009	662.91	13.00	649.91	-	-	649.91
	03/27/2009	662.91	13.32	649.59	-	-	649.59
	04/29/2009	662.91	13.03	649.88	-	-	649.88
	05/20/2009	662.91	13.04	649.87	-	-	649.87
	06/25/2009	662.91	12.69	650.22	-	-	650.22
	07/21/2009	662.91	13.38	649.53	-	-	649.53
	08/25/2009	662.91	13.42	649.49	-	-	649.49
	09/16/2009	662.91	15.16	647.75	-	-	647.75
	10/14/2009	662.91	15.49	647.42	-	-	647.42
	11/10/2009	662.91	15.09	647.82	-	-	647.82
	12/14/2009	662.91	16.32	646.59	-	-	646.59
	01/11/2010	662.91	16.59	646.32	-	-	646.32
	02/10/2010	662.91	16.72	646.19	-	-	646.19
	03/10/2010	662.91	17.21	645.70	-	-	645.70
	04/14/2010	662.91	16.99	645.92	-	-	645.92
	05/12/2010	662.91	17.36	645.55	-	-	645.55
	06/17/2010	662.91	17.37	645.54	-	-	645.54
	07/14/2010	662.91	17.66	645.25	-	-	645.25
	08/09/2010	662.91	17.41	645.50	-	-	645.50
	09/16/2010	662.91	17.48	645.43	-	-	645.43
	10/13/2010	662.91	16.14	646.77	-	-	646.77
	11/16/2010	662.91	11.68	651.23	-	-	651.23
	12/16/2010	662.91	15.68	647.23	-	-	647.23
	01/13/2011	662.91	16.08	646.83	-	-	646.83

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	03/14/2011	662.91	15.51	647.40	-	-	647.40
	04/12/2011	662.91	15.79	647.12	-	-	647.12
	05/19/2011	662.91	14.62	648.29	-	-	648.29
	06/20/2011	662.91	14.79	648.12	-	-	648.12
	07/13/2011	662.91	13.52	649.39	-	-	649.39
11-1S	04/04/2005	657.40	9.16	648.24	-	-	648.24
	05/16/2005	657.40	9.26	648.14	-	-	648.14
	06/13/2005	657.40	9.79	647.61	-	-	647.61
	07/11/2005	657.40	9.81	647.59	-	-	647.59
	08/22/2005	657.40	10.51	646.89	-	-	646.89
	10/17/2005	657.40	NR	-	NR	-	-
	01/09/2006	657.40	NR	-	NR	-	-
	04/03/2006	657.40	NR	-	NR	-	-
	05/31/2006	657.40	8.01	649.39	-	-	649.39
	06/12/2006	657.40	NR	-	NR	-	-
	08/02/2006	657.40	NR	-	NR	-	-
	09/06/2006	657.40	9.76	647.64	-	-	647.64
	11/01/2006	657.40	NR	-	NR	-	-
	01/09/2007	657.40	NR	-	NR	-	-
	05/07/2007	657.40	6.79	650.61	-	-	650.61
	07/24/2007	657.40	8.51	648.89	-	-	648.89
	10/16/2007	657.40	NR	-	NR	-	-
	01/11/2008	657.40	NR	-	NR	-	-
11-2S	04/04/2005	658.40	10.12	648.28	-	-	648.28
	05/16/2005	658.40	10.24	648.16	-	-	648.16
	06/13/2005	658.40	10.73	647.67	-	-	647.67
	07/11/2005	658.40	10.70	647.70	-	-	647.70
	08/22/2005	658.40	11.33	647.07	-	-	647.07
	10/17/2005	658.40	NR	-	NR	-	-
	01/09/2006	658.40	NR	-	NR	-	-
	04/03/2006	658.40	8.17	650.23	-	-	650.23
	05/31/2006	658.40	8.93	649.47	-	-	649.47
	06/12/2006	658.40	NR	-	NR	-	-
	08/02/2006	658.40	NR	-	NR	-	-
	09/06/2006	658.40	10.59	647.81	-	-	647.81
	11/01/2006	658.40	9.72	648.68	-	-	648.68
	01/09/2007	658.40	NR	-	NR	-	-
	05/07/2007	658.40	7.72	650.68	-	-	650.68
	07/24/2007	658.40	9.37	649.03	-	-	649.03
	10/16/2007	658.40	11.21	647.19	-	-	647.19
	01/11/2008	658.40	NR	-	NR	-	-
11-3S	04/04/2005	659.30	NR	-	NR	-	-
	05/16/2005	659.30	11.32	647.98	-	-	647.98
	06/13/2005	659.30	11.83	647.47	-	-	647.47
	07/11/2005	659.30	11.90	647.40	-	-	647.40
	08/22/2005	659.30	12.46	646.84	-	-	646.84
	10/17/2005	659.30	NR	-	NR	-	-

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	01/09/2006	659.30	NR	-	NR	-	-
	04/03/2006	659.30	NR	-	NR	-	-
	05/31/2006	659.30	9.73	649.57	-	-	649.57
	06/12/2006	659.30	NR	-	NR	-	-
	08/02/2006	659.30	NR	-	NR	-	-
	09/06/2006	659.30	11.47	647.83	-	-	647.83
	11/01/2006	659.30	10.86	648.44	-	-	648.44
	01/09/2007	659.30	NR	-	NR	-	-
	05/07/2007	659.30	8.43	650.87	-	-	650.87
	07/24/2007	659.30	NR	-	NR	-	-
	10/16/2007	659.30	NR	-	NR	-	-
	01/11/2008	659.30	NR	-	NR	-	-
11-4S	04/04/2005	660.38	12.63	647.75	-	-	647.75
	05/16/2005	660.38	12.61	647.77	-	-	647.77
	06/13/2005	660.38	13.04	647.34	-	-	647.34
	07/11/2005	660.38	13.12	647.26	-	-	647.26
	08/22/2005	660.38	13.60	646.78	-	-	646.78
	10/17/2005	660.38	NR	-	NR	-	-
	01/09/2006	660.38	NR	-	NR	-	-
	04/03/2006	660.38	10.15	650.23	-	-	650.23
	05/31/2006	660.38	11.10	649.28	-	-	649.28
	06/12/2006	660.38	NR	-	NR	-	-
	08/02/2006	660.38	NR	-	NR	-	-
	09/06/2006	660.38	12.65	647.73	-	-	647.73
	11/01/2006	660.38	12.20	648.18	-	-	648.18
	01/09/2007	660.38	NR	-	NR	-	-
	05/07/2007	660.38	9.89	650.49	-	-	650.49
	07/24/2007	660.38	11.60	648.78	-	-	648.78
	10/16/2007	660.38	13.68	646.70	-	-	646.70
	01/11/2008	660.38	NR	-	NR	-	-
12-1M	04/04/2005	661.90	20.93	640.97	-	-	640.97
	05/16/2005	661.90	20.73	641.17	-	-	641.17
	06/13/2005	661.90	21.06	640.84	-	-	640.84
	07/11/2005	661.90	21.45	640.45	-	-	640.45
	08/22/2005	661.90	21.92	639.98	-	-	639.98
	10/17/2005	661.90	20.80	641.10	-	-	641.10
	01/09/2006	661.90	18.56	643.34	-	-	643.34
	04/03/2006	661.90	18.61	643.29	-	-	643.29
	05/31/2006	661.90	19.60	642.30	-	-	642.30
	06/12/2006	661.90	NR	-	NR	-	-
	08/02/2006	661.90	20.58	641.32	-	-	641.32
	09/06/2006	661.90	21.15	640.75	-	-	640.75
	11/01/2006	661.90	21.28	640.62	-	-	640.62
	01/09/2007	661.90	19.80	642.10	-	-	642.10
	05/07/2007	661.90	18.68	643.22	-	-	643.22
	07/24/2007	661.90	20.17	641.73	-	-	641.73
	10/16/2007	661.90	21.89	640.01	-	-	640.01
	01/11/2008	661.90	21.44	640.46	-	-	640.46



**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	06/30/2008	661.90	20.00	641.90	-	-	641.90
12-2M	04/04/2005	661.87	20.38	641.49	-	-	641.49
	05/16/2005	661.87	20.16	641.71	-	-	641.71
	06/13/2005	661.87	20.50	641.37	-	-	641.37
	07/11/2005	661.87	20.86	641.01	-	-	641.01
	08/22/2005	661.87	21.33	640.54	-	-	640.54
	10/17/2005	661.87	20.17	641.70	-	-	641.70
	01/09/2006	661.87	18.92	642.95	-	-	642.95
	04/03/2006	661.87	17.74	644.13	-	-	644.13
	05/31/2006	661.87	19.11	642.76	-	-	642.76
	06/12/2006	661.87	NR	-	NR	-	-
	08/02/2006	661.87	20.03	641.84	-	-	641.84
	09/06/2006	661.87	20.51	641.36	-	-	641.36
	11/01/2006	661.87	20.69	641.18	-	-	641.18
	01/09/2007	661.87	19.17	642.70	-	-	642.70
	05/07/2007	661.87	18.04	643.83	-	-	643.83
	07/24/2007	661.87	19.59	642.28	-	-	642.28
	10/16/2007	661.87	21.50	640.37	-	-	640.37
	01/11/2008	661.87	20.83	641.04	-	-	641.04
	06/30/2008	661.87	19.25	642.62	-	-	642.62
	09/18/2008	661.87	19.80	642.07	-	-	642.07
	10/23/2008	661.87	20.15	641.72	-	-	641.72
	12/31/2008	661.87	17.48	644.39	-	-	644.39
	01/28/2009	661.87	17.22	644.65	-	-	644.65
	02/25/2009	661.87	17.54	644.33	-	-	644.33
	03/27/2009	661.87	17.66	644.21	-	-	644.21
	04/29/2009	661.87	17.68	644.19	-	-	644.19
	05/20/2009	661.87	17.82	644.05	-	-	644.05
	06/25/2009	661.87	17.13	644.74	-	-	644.74
	07/21/2009	661.87	17.96	643.91	-	-	643.91
	08/25/2009	661.87	18.61	643.26	-	-	643.26
	09/16/2009	661.87	15.02	646.85	-	-	646.85
	10/14/2009	661.87	19.59	642.28	-	-	642.28
	11/10/2009	661.87	19.91	641.96	-	-	641.96
	12/14/2009	661.87	20.24	641.63	-	-	641.63
	01/11/2010	661.87	20.33	641.54	-	-	641.54
	02/10/2010	661.87	20.22	641.65	-	-	641.65
	03/10/2010	661.87	20.89	640.98	-	-	640.98
	04/14/2010	661.87	20.64	641.23	-	-	641.23
	05/12/2010	661.87	21.06	640.81	-	-	640.81
	06/17/2010	661.87	21.56	640.31	-	-	640.31
	07/14/2010	661.87	21.82	640.05	-	-	640.05
	08/09/2010	661.87	21.69	640.18	-	-	640.18
	09/16/2010	661.87	21.61	640.26	-	-	640.26
	10/13/2010	661.87	20.46	641.41	-	-	641.41
	11/16/2010	661.87	20.17	641.70	-	-	641.70
	12/16/2010	661.87	19.79	642.08	-	-	642.08
	01/13/2011	661.87	19.64	642.23	-	-	642.23
	03/14/2011	661.87	19.37	642.50	-	-	642.50

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	04/12/2011	661.87	19.04	642.83	-	-	642.83
	05/19/2011	661.87	18.28	643.59	-	-	643.59
	06/20/2011	661.87	18.16	643.71	-	-	643.71
	07/13/2011	661.87	13.52	648.35	-	-	648.35
12-3M	04/04/2005	663.03	21.42	641.61	21.41	0.01	641.62
	05/16/2005	663.03	21.15	641.88	-	-	641.88
	06/13/2005	663.03	21.48	641.55	-	-	641.55
	07/11/2005	663.03	21.82	641.21	-	-	641.21
	08/22/2005	663.03	22.31	640.72	-	-	640.72
	10/17/2005	663.03	21.23	641.80	-	-	641.80
	01/09/2006	663.03	19.94	643.09	-	-	643.09
	04/03/2006	663.03	18.91	644.12	-	-	644.12
	05/31/2006	663.03	19.93	643.10	-	-	643.10
	06/12/2006	663.03	NR	-	NR	-	-
	08/02/2006	663.03	21.18	641.85	21.14	0.04	641.88
	09/06/2006	663.03	21.54	641.49	-	-	641.49
	11/01/2006	663.03	21.77	641.26	-	-	641.26
	01/09/2007	663.03	20.21	642.82	-	-	642.82
	05/07/2007	663.03	19.05	643.98	-	-	643.98
	07/24/2007	663.03	20.71	642.32	-	-	642.32
	10/16/2007	663.03	22.46	640.57	-	-	640.57
	01/11/2008	663.03	21.96	641.07	-	-	641.07
	06/30/2008	663.03	20.40	642.63	-	-	642.63
12-4M	04/04/2005	662.17	19.59	642.58	-	-	642.58
	05/16/2005	662.17	19.30	642.87	-	-	642.87
	06/13/2005	662.17	19.61	642.56	-	-	642.56
	07/11/2005	662.17	19.97	642.20	-	-	642.20
	08/22/2005	662.17	20.39	641.78	-	-	641.78
	10/17/2005	662.17	19.31	642.86	-	-	642.86
	01/09/2006	662.17	18.06	644.11	-	-	644.11
	04/03/2006	662.17	17.02	645.15	-	-	645.15
	05/31/2006	662.17	18.02	644.15	-	-	644.15
	06/12/2006	662.17	NR	-	NR	-	-
	08/02/2006	662.17	19.29	642.88	-	-	642.88
	09/06/2006	662.17	19.60	642.57	-	-	642.57
	11/01/2006	662.17	19.82	642.35	-	-	642.35
	01/09/2007	662.17	18.28	643.89	-	-	643.89
	05/07/2007	662.17	17.13	645.04	-	-	645.04
	07/24/2007	662.17	18.85	643.32	-	-	643.32
	10/16/2007	662.17	20.56	641.61	-	-	641.61
	01/11/2008	662.17	19.92	642.25	-	-	642.25
	06/30/2008	662.17	18.45	643.72	-	-	643.72
	09/18/2008	662.17	19.05	643.12	-	-	643.12
	10/23/2008	662.17	19.35	642.82	-	-	642.82
	12/31/2008	662.17	15.66	646.51	-	-	646.51
	01/28/2009	662.17	16.42	645.75	-	-	645.75
	02/25/2009	662.17	16.79	645.38	-	-	645.38
	03/27/2009	662.17	16.71	645.46	-	-	645.46

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	04/29/2009	662.17	16.94	645.23	-	-	645.23
	05/20/2009	662.17	17.08	645.09	-	-	645.09
	06/25/2009	662.17	16.51	645.66	-	-	645.66
	07/21/2009	662.17	17.16	645.01	-	-	645.01
	08/25/2009	662.17	17.80	644.37	-	-	644.37
	09/16/2009	662.17	13.85	648.32	-	-	648.32
	10/14/2009	662.17	18.68	643.49	-	-	643.49
	11/10/2009	662.17	18.98	643.19	-	-	643.19
	12/14/2009	662.17	19.43	642.74	-	-	642.74
	01/11/2010	662.17	19.54	642.63	-	-	642.63
	02/10/2010	662.17	19.43	642.74	-	-	642.74
	03/10/2010	662.17	19.86	642.31	-	-	642.31
	04/14/2010	662.17	19.72	642.45	-	-	642.45
	05/12/2010	662.17	20.02	642.15	-	-	642.15
	06/17/2010	662.17	20.61	641.56	-	-	641.56
	07/14/2010	662.17	20.91	641.26	-	-	641.26
	08/09/2010	662.17	20.76	641.41	-	-	641.41
	09/16/2010	662.17	20.58	641.59	-	-	641.59
	10/13/2010	662.17	19.39	642.78	-	-	642.78
	11/16/2010	662.17	20.31	641.86	-	-	641.86
	12/16/2010	662.17	18.92	643.25	-	-	643.25
	01/13/2011	662.17	18.54	643.63	-	-	643.63
	03/14/2011	662.17	18.51	643.66	-	-	643.66
	04/12/2011	662.17	18.18	643.99	-	-	643.99
	05/19/2011	662.17	17.42	644.75	-	-	644.75
	06/20/2011	662.17	17.30	644.87	-	-	644.87
	07/13/2011	662.17	13.52	648.65	-	-	648.65
12-5M	04/04/2005	663.37	20.97	642.40	-	-	642.40
	05/16/2005	663.37	20.68	642.69	-	-	642.69
	06/13/2005	663.37	20.98	642.39	-	-	642.39
	07/11/2005	663.37	21.32	642.05	-	-	642.05
	08/22/2005	663.37	21.77	641.60	-	-	641.60
	10/17/2005	663.37	20.70	642.67	-	-	642.67
	01/09/2006	663.37	19.41	643.96	-	-	643.96
	04/03/2006	663.37	18.34	645.03	-	-	645.03
	05/31/2006	663.37	19.37	644.00	-	-	644.00
	06/12/2006	663.37	NR	-	NR	-	-
	08/02/2006	663.37	19.88	643.49	-	-	643.49
	09/06/2006	663.37	20.99	642.38	-	-	642.38
	11/01/2006	663.37	21.30	642.07	-	-	642.07
	01/09/2007	663.37	19.69	643.68	-	-	643.68
	05/07/2007	663.37	18.53	644.84	-	-	644.84
	07/24/2007	663.37	20.52	642.85	-	-	642.85
	10/16/2007	663.37	22.14	641.23	-	-	641.23
	01/11/2008	663.37	21.41	641.96	-	-	641.96
	06/30/2008	663.37	19.85	643.52	-	-	643.52

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
12-6M	04/04/2005	663.72	20.16	643.56	-	-	643.56
	05/16/2005	663.72	19.86	643.86	-	-	643.86
	06/13/2005	663.72	20.17	643.55	-	-	643.55
	07/11/2005	663.72	20.50	643.22	-	-	643.22
	08/22/2005	663.72	20.89	642.83	-	-	642.83
	10/17/2005	663.72	19.85	643.87	-	-	643.87
	01/09/2006	663.72	18.53	645.19	-	-	645.19
	04/03/2006	663.72	17.47	646.25	-	-	646.25
	05/31/2006	663.72	18.49	645.23	-	-	645.23
	06/12/2006	663.72	NR	-	NR	-	-
	08/02/2006	663.72	19.81	643.91	-	-	643.91
	09/06/2006	663.72	20.05	643.67	-	-	643.67
	11/01/2006	663.72	20.30	643.42	-	-	643.42
	01/09/2007	663.72	18.77	644.95	-	-	644.95
	05/07/2007	663.72	17.58	646.14	-	-	646.14
	07/24/2007	663.72	19.59	644.13	-	-	644.13
	10/16/2007	663.72	21.04	642.68	-	-	642.68
	01/11/2008	663.72	20.56	643.16	-	-	643.16
06/30/2008	663.72	18.75	644.97	-	-	644.97	
12-7M	04/04/2005	664.24	20.81	643.43	-	-	643.43
	05/16/2005	664.24	20.50	643.74	-	-	643.74
	06/13/2005	664.24	20.80	643.44	-	-	643.44
	07/11/2005	664.24	21.13	643.11	-	-	643.11
	08/22/2005	664.24	21.53	642.71	-	-	642.71
	10/17/2005	664.24	20.55	643.69	-	-	643.69
	01/09/2006	664.24	19.21	645.03	-	-	645.03
	04/03/2006	664.24	18.05	646.19	-	-	646.19
	05/31/2006	664.24	19.15	645.09	-	-	645.09
	06/12/2006	664.24	NR	-	NR	-	-
	08/02/2006	664.24	20.60	643.64	-	-	643.64
	09/06/2006	664.24	20.74	643.50	-	-	643.50
	11/01/2006	664.24	21.08	643.16	-	-	643.16
	01/09/2007	664.24	19.48	644.76	-	-	644.76
	05/07/2007	664.24	18.23	646.01	-	-	646.01
	07/24/2007	664.24	20.63	643.61	-	-	643.61
	10/16/2007	664.24	21.78	642.46	-	-	642.46
	01/11/2008	664.24	21.23	643.01	-	-	643.01
06/30/2008	664.24	19.60	644.64	-	-	644.64	
12-8M	04/04/2005	664.81	20.24	644.57	-	-	644.57
	05/16/2005	664.81	19.97	644.84	-	-	644.84
	06/13/2005	664.81	20.27	644.54	-	-	644.54
	07/11/2005	664.81	20.60	644.21	-	-	644.21
	08/22/2005	664.81	20.97	643.84	-	-	643.84
	10/17/2005	664.81	19.93	644.88	-	-	644.88
	01/09/2006	664.81	18.62	646.19	-	-	646.19
	04/03/2006	664.81	17.51	647.30	-	-	647.30
	05/31/2006	664.81	18.56	646.25	-	-	646.25
	06/12/2006	664.81	NR	-	NR	-	-

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	08/02/2006	664.81	19.70	645.11	-	-	645.11
	09/06/2006	664.81	20.05	644.76	-	-	644.76
	11/01/2006	664.81	20.23	644.58	-	-	644.58
	01/09/2007	664.81	18.79	646.02	-	-	646.02
	05/07/2007	664.81	17.57	647.24	-	-	647.24
	07/24/2007	664.81	19.54	645.27	-	-	645.27
	10/16/2007	664.81	20.89	643.92	-	-	643.92
	01/11/2008	664.81	20.31	644.50	-	-	644.50
	06/30/2008	664.81	18.75	646.06	-	-	646.06
	09/18/2008	664.81	19.30	645.51	-	-	645.51
	10/23/2008	664.81	19.60	645.21	-	-	645.21
	12/31/2008	664.81	16.93	647.88	-	-	647.88
	01/28/2009	664.81	16.66	648.15	-	-	648.15
	02/25/2009	664.81	16.91	647.90	-	-	647.90
	03/27/2009	664.81	17.02	647.79	-	-	647.79
	04/29/2009	664.81	17.08	647.73	-	-	647.73
	05/20/2009	664.81	17.16	647.65	-	-	647.65
	06/25/2009	664.81	16.61	648.20	-	-	648.20
	07/21/2009	664.81	17.28	647.53	-	-	647.53
	08/25/2009	664.81	17.85	646.96	-	-	646.96
	09/16/2009	664.81	12.49	652.32	-	-	652.32
	10/14/2009	664.81	18.84	645.97	-	-	645.97
	11/10/2009	664.81	19.16	645.65	-	-	645.65
	12/14/2009	664.81	19.59	645.22	-	-	645.22
	01/11/2010	664.81	19.74	645.07	-	-	645.07
	02/10/2010	664.81	19.62	645.19	-	-	645.19
	03/10/2010	664.81	20.17	644.64	-	-	644.64
	04/14/2010	664.81	20.04	644.77	-	-	644.77
	05/12/2010	664.81	20.38	644.43	-	-	644.43
	06/17/2010	664.81	20.85	643.96	-	-	643.96
	07/14/2010	664.81	21.14	643.67	-	-	643.67
	08/09/2010	664.81	20.94	643.87	-	-	643.87
	09/16/2010	664.81	20.91	643.90	-	-	643.90
	10/13/2010	664.81	19.54	645.27	-	-	645.27
	11/16/2010	664.81	19.51	645.30	-	-	645.30
	12/16/2010	664.81	19.14	645.67	-	-	645.67
	01/13/2011	664.81	18.96	645.85	-	-	645.85
	03/14/2011	664.81	18.61	646.20	-	-	646.20
	04/12/2011	664.81	18.36	646.45	-	-	646.45
	05/19/2011	664.81	17.51	647.30	-	-	647.30
	06/20/2011	664.81	17.39	647.42	-	-	647.42
	07/13/2011	664.81	13.52	651.29	-	-	651.29
12-9M	04/04/2005	665.19	20.73	644.46	-	-	644.46
	05/16/2005	665.19	20.44	644.75	-	-	644.75
	06/13/2005	665.19	20.73	644.46	-	-	644.46
	07/11/2005	665.19	21.06	644.13	-	-	644.13
	08/22/2005	665.19	21.43	643.76	-	-	643.76
	10/17/2005	665.19	20.44	644.75	-	-	644.75
	01/09/2006	665.19	19.11	646.08	-	-	646.08

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	04/03/2006	665.19	17.94	647.25	-	-	647.25
	05/31/2006	665.19	19.03	646.16	-	-	646.16
	06/12/2006	665.19	NR	-	NR	-	-
	08/02/2006	665.19	20.07	645.12	-	-	645.12
	09/06/2006	665.19	20.53	644.66	-	-	644.66
	11/01/2006	665.19	20.78	644.41	-	-	644.41
	01/09/2007	665.19	19.33	645.86	-	-	645.86
	05/07/2007	665.19	18.05	647.14	-	-	647.14
	07/24/2007	665.19	20.22	644.97	-	-	644.97
	10/16/2007	665.19	21.33	643.86	-	-	643.86
	01/11/2008	665.19	21.03	644.16	-	-	644.16
	06/30/2008	665.19	19.45	645.74	-	-	645.74
	09/18/2008	665.19	20.01	645.18	-	-	645.18
	10/23/2008	665.19	20.30	644.89	-	-	644.89
	12/31/2008	665.19	17.75	647.44	-	-	647.44
	01/28/2009	665.19	17.28	647.91	-	-	647.91
	02/25/2009	665.19	17.57	647.62	-	-	647.62
	03/27/2009	665.19	17.46	647.73	-	-	647.73
	04/29/2009	665.19	17.72	647.47	-	-	647.47
	05/20/2009	665.19	17.83	647.36	-	-	647.36
	06/25/2009	665.19	17.28	647.91	-	-	647.91
	07/21/2009	665.19	17.94	647.25	-	-	647.25
	08/25/2009	665.19	18.53	646.66	-	-	646.66
	09/16/2009	665.19	13.71	651.48	-	-	651.48
	10/14/2009	665.19	19.47	645.72	-	-	645.72
	11/10/2009	665.19	19.81	645.38	-	-	645.38
	12/14/2009	665.19	20.21	644.98	-	-	644.98
	01/11/2010	665.19	20.36	644.83	-	-	644.83
	02/10/2010	665.19	20.20	644.99	-	-	644.99
	03/10/2010	665.19	20.75	644.44	-	-	644.44
	04/14/2010	665.19	20.59	644.60	-	-	644.60
	05/12/2010	665.19	20.96	644.23	-	-	644.23
	06/17/2010	665.19	21.42	643.77	-	-	643.77
	07/14/2010	665.19	21.74	643.45	-	-	643.45
	08/09/2010	665.19	21.58	643.61	-	-	643.61
	09/16/2010	665.19	21.23	643.96	-	-	643.96
	10/13/2010	665.19	20.23	644.96	-	-	644.96
	11/16/2010	665.19	20.16	645.03	-	-	645.03
	12/16/2010	665.19	18.91	646.28	-	-	646.28
	01/13/2011	665.19	18.68	646.51	-	-	646.51
	03/14/2011	665.19	19.17	646.02	-	-	646.02
	04/12/2011	665.19	18.86	646.33	-	-	646.33
	05/19/2011	665.19	18.01	647.18	-	-	647.18
	06/20/2011	665.19	17.94	647.25	-	-	647.25
	07/13/2011	665.19	13.52	651.67	-	-	651.67
12-10M	04/04/2005	666.41	20.82	645.59	-	-	645.59
	05/16/2005	666.41	20.58	645.83	-	-	645.83
	06/13/2005	666.41	20.87	645.54	-	-	645.54
	07/11/2005	666.41	21.18	645.23	-	-	645.23

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	08/22/2005	666.41	21.54	644.87	-	-	644.87
	10/17/2005	666.41	20.46	645.95	-	-	645.95
	01/09/2006	666.41	19.23	647.18	-	-	647.18
	04/03/2006	666.41	18.08	648.33	-	-	648.33
	05/31/2006	666.41	19.11	647.30	-	-	647.30
	06/12/2006	666.41	NR	-	NR	-	-
	08/02/2006	666.41	20.01	646.40	-	-	646.40
	09/06/2006	666.41	20.57	645.84	-	-	645.84
	11/01/2006	666.41	20.71	645.70	-	-	645.70
	01/09/2007	666.41	19.39	647.02	-	-	647.02
	05/07/2007	666.41	18.13	648.28	-	-	648.28
	07/24/2007	666.41	19.88	646.53	-	-	646.53
	10/16/2007	666.41	21.32	645.09	-	-	645.09
	01/11/2008	666.41	20.83	645.58	-	-	645.58
	06/30/2008	666.41	19.40	647.01	-	-	647.01
	09/18/2008	666.41	20.10	646.31	-	-	646.31
	10/23/2008	666.41	20.50	645.91	-	-	645.91
	12/31/2008	666.41	17.50	648.91	-	-	648.91
	01/28/2009	666.41	17.25	649.16	-	-	649.16
	02/25/2009	666.41	17.46	648.95	-	-	648.95
	03/27/2009	666.41	17.57	648.84	-	-	648.84
	04/29/2009	666.41	17.89	648.52	-	-	648.52
	05/20/2009	666.41	17.97	648.44	-	-	648.44
	06/25/2009	666.41	17.17	649.24	-	-	649.24
	07/21/2009	666.41	18.03	648.38	-	-	648.38
	08/25/2009	666.41	18.62	647.79	-	-	647.79
	09/16/2009	666.41	14.01	652.40	-	-	652.40
	10/14/2009	666.41	19.61	646.80	-	-	646.80
	11/10/2009	666.41	19.92	646.49	-	-	646.49
	12/14/2009	666.41	20.36	646.05	-	-	646.05
	01/11/2010	666.41	20.31	646.10	-	-	646.10
	02/10/2010	666.41	20.19	646.22	-	-	646.22
	03/10/2010	666.41	20.78	645.63	-	-	645.63
	04/14/2010	666.41	20.66	645.75	-	-	645.75
	05/12/2010	666.41	20.98	645.43	-	-	645.43
	06/17/2010	666.41	21.42	644.99	-	-	644.99
	07/14/2010	666.41	21.78	644.63	-	-	644.63
	08/09/2010	666.41	21.51	644.90	-	-	644.90
	09/16/2010	666.41	21.52	644.89	-	-	644.89
	10/13/2010	666.41	20.04	646.37	-	-	646.37
	11/16/2010	666.41	20.09	646.32	-	-	646.32
	12/16/2010	666.41	19.69	646.72	-	-	646.72
	01/13/2011	666.41	19.75	646.66	-	-	646.66
	03/14/2011	666.41	19.13	647.28	-	-	647.28
	04/12/2011	666.41	18.92	647.49	-	-	647.49
	05/19/2011	666.41	19.02	647.39	-	-	647.39
	06/20/2011	666.41	17.93	648.48	-	-	648.48
	07/13/2011	666.41	13.52	652.89	-	-	652.89

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
12-11M	04/04/2005	667.26	21.90	645.36	-	-	645.36
	05/16/2005	667.26	21.64	645.62	-	-	645.62
	06/13/2005	667.26	21.85	645.41	-	-	645.41
	07/11/2005	667.26	22.10	645.16	-	-	645.16
	08/22/2005	667.26	22.61	644.65	-	-	644.65
	10/17/2005	667.26	21.53	645.73	-	-	645.73
	01/09/2006	667.26	20.26	647.00	-	-	647.00
	04/03/2006	667.26	19.03	648.23	-	-	648.23
	05/31/2006	667.26	20.15	647.11	-	-	647.11
	06/12/2006	667.26	NR	-	NR	-	-
	08/02/2006	667.26	21.07	646.19	-	-	646.19
	09/06/2006	667.26	21.66	645.60	-	-	645.60
	11/01/2006	667.26	20.75	646.51	-	-	646.51
	01/09/2007	667.26	20.40	646.86	-	-	646.86
	05/07/2007	667.26	19.10	648.16	-	-	648.16
	07/24/2007	667.26	20.97	646.29	-	-	646.29
	10/16/2007	667.26	22.35	644.91	-	-	644.91
	01/11/2008	667.26	22.02	645.24	-	-	645.24
	06/30/2008	667.26	20.40	646.86	-	-	646.86
	09/18/2008	667.26	20.93	646.33	-	-	646.33
	10/23/2008	667.26	21.20	646.06	-	-	646.06
	12/31/2008	667.26	18.60	648.66	-	-	648.66
	01/28/2009	667.26	18.20	649.06	-	-	649.06
	02/25/2009	667.26	18.43	648.83	-	-	648.83
	03/27/2009	667.26	18.50	648.76	-	-	648.76
	04/29/2009	667.26	18.61	648.65	-	-	648.65
	05/20/2009	667.26	18.64	648.62	-	-	648.62
	06/25/2009	667.26	18.13	649.13	-	-	649.13
	07/21/2009	667.26	18.71	648.55	-	-	648.55
	08/25/2009	667.26	19.32	647.94	-	-	647.94
	09/16/2009	667.26	13.80	653.46	-	-	653.46
	10/14/2009	667.26	20.26	647.00	-	-	647.00
	11/10/2009	667.26	20.59	646.67	-	-	646.67
	12/14/2009	667.26	20.98	646.28	-	-	646.28
	01/11/2010	667.26	21.16	646.10	-	-	646.10
	02/10/2010	667.26	21.03	646.23	-	-	646.23
	03/10/2010	667.26	21.59	645.67	-	-	645.67
	04/14/2010	667.26	21.43	645.83	-	-	645.83
	05/12/2010	667.26	21.79	645.47	-	-	645.47
	06/17/2010	667.26	22.19	645.07	-	-	645.07
	07/14/2010	667.26	21.47	645.79	-	-	645.79
	08/09/2010	667.26	22.26	645.00	-	-	645.00
	09/16/2010	667.26	22.41	644.85	-	-	644.85
	10/13/2010	667.26	20.93	646.33	-	-	646.33
	11/16/2010	667.26	22.06	645.20	-	-	645.20
	12/16/2010	667.26	20.56	646.70	-	-	646.70
	01/13/2011	667.26	20.51	646.75	-	-	646.75
	03/14/2011	667.26	20.01	647.25	-	-	647.25
	04/12/2011	667.26	19.79	647.47	-	-	647.47
	05/19/2011	667.26	18.83	648.43	-	-	648.43



**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/20/2011	667.26	18.81	648.45	-	-	648.45
	07/13/2011	667.26	13.52	653.74	-	-	653.74
13-1S	04/04/2005	666.21	19.03	647.18	-	-	647.18
	05/16/2005	666.21	18.96	647.25	-	-	647.25
	06/13/2005	666.21	19.29	646.92	-	-	646.92
	07/11/2005	666.21	19.52	646.69	-	-	646.69
	08/22/2005	666.21	19.90	646.31	-	-	646.31
	10/17/2005	666.21	18.58	647.63	-	-	647.63
	01/09/2006	666.21	17.63	648.58	-	-	648.58
	04/03/2006	666.21	16.62	649.59	-	-	649.59
	05/31/2006	666.21	17.51	648.70	-	-	648.70
	06/12/2006	666.21	NR	-	NR	-	-
	08/02/2006	666.21	18.24	647.97	-	-	647.97
	09/06/2006	666.21	18.90	647.31	-	-	647.31
	11/01/2006	666.21	18.91	647.30	-	-	647.30
	01/09/2007	666.21	17.70	648.51	-	-	648.51
	05/07/2007	666.21	16.59	649.62	-	-	649.62
	07/24/2007	666.21	17.92	648.29	-	-	648.29
	10/16/2007	666.21	19.65	646.56	-	-	646.56
	01/11/2008	666.21	19.26	646.95	-	-	646.95
	06/30/2008	666.21	18.85	647.36	-	-	647.36
13-2S	04/04/2005	667.62	20.54	647.08	-	-	647.08
	05/16/2005	667.62	20.38	647.24	-	-	647.24
	06/13/2005	667.62	20.70	646.92	-	-	646.92
	07/11/2005	667.62	20.99	646.63	-	-	646.63
	08/22/2005	667.62	21.36	646.26	-	-	646.26
	10/17/2005	667.62	20.05	647.57	-	-	647.57
	01/09/2006	667.62	19.05	648.57	-	-	648.57
	04/03/2006	667.62	17.97	649.65	-	-	649.65
	05/31/2006	667.62	18.92	648.70	-	-	648.70
	06/12/2006	667.62	NR	-	NR	-	-
	08/02/2006	667.62	19.66	647.96	-	-	647.96
	09/06/2006	667.62	20.32	647.30	-	-	647.30
	11/01/2006	667.62	20.37	647.25	-	-	647.25
	01/09/2007	667.62	19.20	648.42	-	-	648.42
	05/07/2007	667.62	17.96	649.66	-	-	649.66
	07/24/2007	667.62	19.43	648.19	-	-	648.19
	10/16/2007	667.62	21.10	646.52	-	-	646.52
	01/11/2008	667.62	20.71	646.91	-	-	646.91
	06/30/2008	667.62	19.25	648.37	-	-	648.37
13-3S	04/04/2005	667.41	20.45	646.96	-	-	646.96
	05/16/2005	667.41	20.25	647.16	-	-	647.16
	06/13/2005	667.41	20.59	646.82	-	-	646.82
	07/11/2005	667.41	20.85	646.56	-	-	646.56
	08/22/2005	667.41	21.20	646.21	-	-	646.21
	10/17/2005	667.41	20.02	647.39	-	-	647.39
	01/09/2006	667.41	18.93	648.48	-	-	648.48

**Table D-1  
Historical Well Gauging Data Summary**

**Areas 3805 and 1995  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/03/2006	667.41	17.72	649.69	-	-	649.69
	05/31/2006	667.41	18.78	648.63	-	-	648.63
	06/12/2006	667.41	NR	-	NR	-	-
	08/02/2006	667.41	19.59	647.82	-	-	647.82
	09/06/2006	667.41	20.19	647.22	-	-	647.22
	11/01/2006	667.41	20.29	647.12	-	-	647.12
	01/09/2007	667.41	19.13	648.28	-	-	648.28
	05/07/2007	667.41	17.70	649.71	-	-	649.71
	07/24/2007	667.41	19.31	648.10	-	-	648.10
	10/16/2007	667.41	21.93	645.48	-	-	645.48
	01/11/2008	667.41	20.61	646.80	-	-	646.80
	06/30/2008	667.41	20.15	647.26	-	-	647.26
13-4S	04/04/2005	668.78	21.72	647.06	-	-	647.06
	05/16/2005	668.78	21.47	647.31	-	-	647.31
	06/13/2005	668.78	21.81	646.97	-	-	646.97
	07/11/2005	668.78	22.08	646.70	-	-	646.70
	08/22/2005	668.78	22.55	646.23	-	-	646.23
	10/17/2005	668.78	21.23	647.55	-	-	647.55
	01/09/2006	668.78	20.15	648.63	-	-	648.63
	04/03/2006	668.78	19.09	649.69	-	-	649.69
	05/31/2006	668.78	20.07	648.71	-	-	648.71
	06/12/2006	668.78	NR	-	NR	-	-
	08/02/2006	668.78	20.74	648.04	-	-	648.04
	09/06/2006	668.78	21.44	647.34	-	-	647.34
	11/01/2006	668.78	21.45	647.33	-	-	647.33
	01/09/2007	668.78	20.38	648.40	-	-	648.40
	05/07/2007	668.78	19.12	649.66	-	-	649.66
	07/24/2007	668.78	20.48	648.30	-	-	648.30
	10/16/2007	668.78	22.09	646.69	-	-	646.69
	01/11/2008	668.78	21.64	647.14	-	-	647.14
	06/30/2008	668.78	20.40	648.38	-	-	648.38

NA = Not Available/Not Analyzed  
 ND = Not Detected  
 NR = Not Recorded









## **APPENDIX E**

### **Summary of Well Gauging Results and Operation and Maintenance Data**

#### **Building P2140 – AAFES Station**

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
2140-DPE01	01/08/2003	646.30	25.88	620.42	-	-	620.42
	09/08/2004	646.30	26.00	620.30	-	-	620.30
	09/22/2004	646.30	26.00	620.30	-	-	620.30
	10/08/2004	646.30	26.00	620.30	-	-	620.30
	10/29/2004	646.30	26.00	620.30	-	-	620.30
	11/04/2004	646.30	26.00	620.30	-	-	620.30
	11/08/2004	646.30	26.00	620.30	-	-	620.30
	12/01/2004	646.30	26.00	620.30	-	-	620.30
	12/15/2004	646.30	26.00	620.30	-	-	620.30
	01/05/2005	646.30	26.00	620.30	-	-	620.30
	01/14/2005	646.30	26.00	620.30	-	-	620.30
	02/03/2005	646.30	26.00	620.30	-	-	620.30
	02/15/2005	646.30	26.00	620.30	-	-	620.30
	03/08/2005	646.30	26.00	620.30	-	-	620.30
	03/22/2005	646.30	26.00	620.30	-	-	620.30
	04/11/2005	646.30	26.00	620.30	-	-	620.30
	04/25/2005	646.30	24.94	621.36	-	-	621.36
	05/03/2005	646.30	26.00	620.30	-	-	620.30
	05/25/2005	646.30	NR	-	NR	-	-
	06/02/2005	646.30	NR	-	NR	-	-
	06/20/2005	646.30	NR	-	NR	-	-
	06/29/2005	646.30	NR	-	NR	-	-
	07/07/2005	646.30	NR	-	NR	-	-
	07/27/2005	646.30	25.52	620.78	-	-	620.78
	08/05/2005	646.30	25.49	620.81	-	-	620.81
	08/15/2005	646.30	NR	-	NR	-	-
	09/06/2005	646.30	25.35	620.95	-	-	620.95
	09/23/2005	646.30	25.26	621.04	-	-	621.04
	10/07/2005	646.30	NR	-	NR	-	-
	10/25/2005	646.30	NR	-	NR	-	-
	12/13/2005	646.30	23.00	623.30	-	-	623.30
	01/06/2006	646.30	NR	-	NR	-	-
	02/09/2006	646.30	22.64	623.66	-	-	623.66
	02/22/2006	646.30	22.52	623.78	-	-	623.78
	03/16/2006	646.30	NR	-	NR	-	-
	04/12/2006	646.30	NR	-	NR	-	-
	05/17/2006	646.30	23.41	622.89	-	-	622.89
	06/15/2006	646.30	NR	-	NR	-	-
	07/10/2006	646.30	23.75	622.55	-	-	622.55
	08/18/2006	646.30	24.31	621.99	-	-	621.99
	10/24/2006	646.30	NR	-	NR	-	-
	01/04/2007	646.30	NR	-	NR	-	-
	02/01/2007	646.30	22.85	623.45	-	-	623.45
	05/07/2007	646.30	22.45	623.85	-	-	623.85
	05/30/2007	646.30	NR	-	NR	-	-
	07/30/2007	646.30	23.86	622.44	-	-	622.44
	10/07/2007	646.30	NR	-	NR	-	-
	01/07/2008	646.30	NR	-	NR	-	-
	02/26/2008	646.30	NR	-	NR	-	-
	07/01/2008	646.30	NR	-	NR	-	-



**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	09/18/2008	646.30	NR	-	NR	-	-
	10/23/2008	646.30	17.70	628.60	-	-	628.60
	12/30/2008	646.30	NR	-	NR	-	-
	01/28/2009	646.30	21.17	625.13	-	-	625.13
	02/24/2009	646.30	24.26	622.04	-	-	622.04
	03/27/2009	646.30	14.65	631.65	-	-	631.65
	04/28/2009	646.30	22.49	623.81	-	-	623.81
	05/20/2009	646.30	22.40	623.90	-	-	623.90
	06/25/2009	646.30	22.44	623.86	-	-	623.86
	07/20/2009	646.30	22.97	623.33	-	-	623.33
	08/25/2009	646.30	21.95	624.35	-	-	624.35
	09/16/2009	646.30	21.30	625.00	-	-	625.00
	10/13/2009	646.30	24.73	621.57	-	-	621.57
	11/10/2009	646.30	24.59	621.71	-	-	621.71
	12/14/2009	646.30	25.17	621.13	-	-	621.13
	01/11/2010	646.30	25.49	620.81	-	-	620.81
	02/10/2010	646.30	25.38	620.92	-	-	620.92
	03/10/2010	646.30	25.67	620.63	-	-	620.63
	04/14/2010	646.30	24.97	621.33	-	-	621.33
	05/12/2010	646.30	25.33	620.97	-	-	620.97
	06/17/2010	646.30	20.17	626.13	-	-	626.13
	07/14/2010	646.30	19.86	626.44	-	-	626.44
	08/09/2010	646.30	23.83	622.47	-	-	622.47
	09/16/2010	646.30	24.11	622.19	-	-	622.19
	10/13/2010	646.30	23.55	622.75	-	-	622.75
	11/16/2010	646.30	22.88	623.42	-	-	623.42
	12/16/2010	646.30	NR	-	NR	-	-
	01/13/2011	646.30	NR	-	NR	-	-
	03/14/2011	646.30	NR	-	NR	-	-
	04/12/2011	646.30	NR	-	NR	-	-
	05/19/2011	646.30	22.26	624.04	-	-	624.04
	06/20/2011	646.30	21.91	624.39	-	-	624.39
	07/13/2011	646.30	21.89	624.41	-	-	624.41
2140-DPE02	01/08/2003	646.78	27.18	619.60	-	-	619.60
	09/08/2004	646.78	29.00	617.78	-	-	617.78
	09/22/2004	646.78	29.00	617.78	-	-	617.78
	10/08/2004	646.78	29.00	617.78	-	-	617.78
	10/29/2004	646.78	29.00	617.78	-	-	617.78
	11/04/2004	646.78	29.00	617.78	-	-	617.78
	11/08/2004	646.78	29.00	617.78	-	-	617.78
	12/01/2004	646.78	29.00	617.78	-	-	617.78
	12/15/2004	646.78	29.00	617.78	-	-	617.78
	01/05/2005	646.78	29.00	617.78	-	-	617.78
	01/14/2005	646.78	29.00	617.78	-	-	617.78
	02/03/2005	646.78	29.00	617.78	-	-	617.78
	02/15/2005	646.78	29.00	617.78	-	-	617.78
	03/08/2005	646.78	29.00	617.78	-	-	617.78
	03/22/2005	646.78	29.00	617.78	-	-	617.78
	04/11/2005	646.78	29.00	617.78	-	-	617.78

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	04/25/2005	646.78	26.09	620.69	-	-	620.69
	05/03/2005	646.78	29.00	617.78	-	-	617.78
	05/25/2005	646.78	NR	-	NR	-	-
	06/02/2005	646.78	NR	-	NR	-	-
	06/20/2005	646.78	NR	-	NR	-	-
	06/29/2005	646.78	NR	-	NR	-	-
	07/07/2005	646.78	NR	-	NR	-	-
	07/27/2005	646.78	26.64	620.14	-	-	620.14
	08/05/2005	646.78	26.62	620.16	-	-	620.16
	08/15/2005	646.78	NR	-	NR	-	-
	09/06/2005	646.78	26.39	620.39	-	-	620.39
	09/23/2005	646.78	26.30	620.48	-	-	620.48
	10/07/2005	646.78	NR	-	NR	-	-
	10/25/2005	646.78	NR	-	NR	-	-
	12/13/2005	646.78	24.07	622.71	-	-	622.71
	01/06/2006	646.78	NR	-	NR	-	-
	02/09/2006	646.78	NR	-	NR	-	-
	02/22/2006	646.78	23.62	623.16	-	-	623.16
	03/16/2006	646.78	NR	-	NR	-	-
	04/12/2006	646.78	NR	-	NR	-	-
	05/17/2006	646.78	24.56	622.22	-	-	622.22
	06/15/2006	646.78	NR	-	NR	-	-
	07/10/2006	646.78	26.90	619.88	-	-	619.88
	08/18/2006	646.78	25.46	621.32	-	-	621.32
	10/24/2006	646.78	NR	-	NR	-	-
	01/04/2007	646.78	NR	-	NR	-	-
	02/01/2007	646.78	23.92	622.86	-	-	622.86
	05/07/2007	646.78	23.67	623.11	-	-	623.11
	05/30/2007	646.78	NR	-	NR	-	-
	07/30/2007	646.78	25.04	621.74	-	-	621.74
	10/07/2007	646.78	NR	-	NR	-	-
	01/07/2008	646.78	NR	-	NR	-	-
	02/26/2008	646.78	NR	-	NR	-	-
	07/01/2008	646.78	24.45	622.33	-	-	622.33
2140-DPE03	01/08/2003	646.36	28.54	617.82	-	-	617.82
	09/08/2004	646.36	31.00	615.36	-	-	615.36
	09/22/2004	646.36	31.00	615.36	-	-	615.36
	10/08/2004	646.36	31.00	615.36	-	-	615.36
	10/29/2004	646.36	31.00	615.36	-	-	615.36
	11/04/2004	646.36	31.00	615.36	-	-	615.36
	11/08/2004	646.36	31.00	615.36	-	-	615.36
	12/01/2004	646.36	31.00	615.36	-	-	615.36
	12/15/2004	646.36	31.00	615.36	-	-	615.36
	01/05/2005	646.36	33.00	613.36	-	-	613.36
	01/14/2005	646.36	33.00	613.36	-	-	613.36
	02/03/2005	646.36	31.00	615.36	-	-	615.36
	02/15/2005	646.36	31.00	615.36	-	-	615.36
	03/08/2005	646.36	33.00	613.36	-	-	613.36
	03/22/2005	646.36	33.00	613.36	-	-	613.36

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	04/11/2005	646.36	33.00	613.36	-	-	613.36
	04/25/2005	646.36	27.48	618.88	-	-	618.88
	05/03/2005	646.36	33.00	613.36	-	-	613.36
	05/25/2005	646.36	NR	-	NR	-	-
	06/02/2005	646.36	NR	-	NR	-	-
	06/20/2005	646.36	NR	-	NR	-	-
	06/29/2005	646.36	NR	-	NR	-	-
	07/07/2005	646.36	NR	-	NR	-	-
	07/27/2005	646.36	28.04	618.32	-	-	618.32
	08/05/2005	646.36	27.99	618.37	-	-	618.37
	08/15/2005	646.36	NR	-	NR	-	-
	09/06/2005	646.36	27.92	618.44	-	-	618.44
	09/23/2005	646.36	27.83	618.53	-	-	618.53
	10/07/2005	646.36	NR	-	-	-	-
	10/25/2005	646.36	NR	-	-	-	-
	12/13/2005	646.36	25.58	620.78	-	-	620.78
	01/06/2006	646.36	NR	-	NR	-	-
	02/09/2006	646.36	25.27	621.09	-	-	621.09
	02/22/2006	646.36	25.19	621.17	-	-	621.17
	03/16/2006	646.36	NR	-	NR	-	-
	04/12/2006	646.36	NR	-	NR	-	-
	05/17/2006	646.36	26.16	620.20	-	-	620.20
	06/15/2006	646.36	NR	-	NR	-	-
	07/10/2006	646.36	26.53	619.83	-	-	619.83
	08/18/2006	646.36	27.22	619.14	-	-	619.14
	10/24/2006	646.36	NR	-	NR	-	-
	01/04/2007	646.36	NR	-	NR	-	-
	02/01/2007	646.36	25.54	620.82	-	-	620.82
	05/07/2007	646.36	25.75	620.61	-	-	620.61
	05/30/2007	646.36	NR	-	NR	-	-
	07/30/2007	646.36	26.84	619.52	-	-	619.52
	10/07/2007	646.36	NR	-	NR	-	-
	01/07/2008	646.36	NR	-	NR	-	-
	02/26/2008	646.36	NR	-	NR	-	-
	07/01/2008	646.36	26.15	620.21	-	-	620.21
	09/18/2008	646.36	17.65	628.71	-	-	628.71
	10/23/2008	646.36	17.15	629.21	-	-	629.21
	12/30/2008	646.36	13.43	632.93	-	-	632.93
	01/28/2009	646.36	13.92	632.44	-	-	632.44
	02/24/2009	646.36	17.30	629.06	-	-	629.06
	03/27/2009	646.36	16.10	630.26	-	-	630.26
	04/28/2009	646.36	16.22	630.14	-	-	630.14
	05/20/2009	646.36	15.62	630.74	-	-	630.74
	06/25/2009	646.36	15.24	631.12	-	-	631.12
	07/20/2009	646.36	16.23	630.13	-	-	630.13
	08/25/2009	646.36	21.88	624.48	-	-	624.48
	09/16/2009	646.36	17.54	628.82	-	-	628.82
	10/13/2009	646.30	19.83	626.47	-	-	626.47
	11/10/2009	646.30	17.41	628.89	-	-	628.89
	12/14/2009	646.30	18.12	628.18	-	-	628.18

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	01/11/2010	646.30	27.22	619.08	-	-	619.08
	02/10/2010	646.30	27.05	619.25	-	-	619.25
	03/10/2010	646.30	27.39	618.91	-	-	618.91
	04/14/2010	646.30	26.75	619.55	-	-	619.55
	05/12/2010	646.36	27.06	619.30	-	-	619.30
	06/17/2010	646.36	22.86	623.50	-	-	623.50
	07/14/2010	646.36	22.32	624.04	-	-	624.04
	08/09/2010	646.36	22.25	624.11	-	-	624.11
	09/16/2010	646.36	21.24	625.12	-	-	625.12
	10/13/2010	646.36	26.28	620.08	-	-	620.08
	11/16/2010	646.36	26.15	620.21	-	-	620.21
	12/16/2010	646.36	NR	-	NR	-	-
	01/13/2011	646.36	NR	-	NR	-	-
	03/14/2011	646.36	NR	-	NR	-	-
	04/12/2011	646.36	NR	-	NR	-	-
	05/19/2011	646.36	24.35	622.01	-	-	622.01
	06/20/2011	646.36	24.89	621.47	-	-	621.47
	07/13/2011	646.36	22.84	623.52	-	-	623.52
2140-DPE04	01/08/2003	646.04	27.83	618.21	-	-	618.21
	09/08/2004	646.04	30.00	616.04	-	-	616.04
	09/22/2004	646.04	30.00	616.04	-	-	616.04
	10/08/2004	646.04	30.00	616.04	-	-	616.04
	10/29/2004	646.04	31.00	615.04	-	-	615.04
	11/04/2004	646.04	31.00	615.04	-	-	615.04
	11/08/2004	646.04	31.00	615.04	-	-	615.04
	12/01/2004	646.04	31.00	615.04	-	-	615.04
	12/15/2004	646.04	31.00	615.04	-	-	615.04
	01/05/2005	646.04	32.00	614.04	-	-	614.04
	01/14/2005	646.04	32.00	614.04	-	-	614.04
	02/03/2005	646.04	31.60	614.44	-	-	614.44
	02/15/2005	646.04	31.60	614.44	-	-	614.44
	03/08/2005	646.04	32.00	614.04	-	-	614.04
	03/22/2005	646.04	32.00	614.04	-	-	614.04
	04/11/2005	646.04	32.00	614.04	-	-	614.04
	04/25/2005	646.04	26.99	619.05	-	-	619.05
	05/03/2005	646.04	32.00	614.04	-	-	614.04
	05/25/2005	646.04	NR	-	NR	-	-
	06/02/2005	646.04	NR	-	NR	-	-
	06/20/2005	646.04	NR	-	NR	-	-
	06/29/2005	646.04	NR	-	NR	-	-
	07/07/2005	646.04	NR	-	NR	-	-
	07/27/2005	646.04	27.52	618.52	-	-	618.52
	08/05/2005	646.04	27.53	618.51	-	-	618.51
	08/15/2005	646.04	NR	-	NR	-	-
	09/06/2005	646.04	27.27	618.77	-	-	618.77
	09/23/2005	646.04	27.19	618.85	-	-	618.85
	10/07/2005	646.04	NR	-	NR	-	-
	10/25/2005	646.04	NR	-	NR	-	-
	12/13/2005	646.04	24.96	621.08	-	-	621.08

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	01/06/2006	646.04	NR	-	NR	-	-
	02/09/2006	646.04	24.70	621.34	-	-	621.34
	02/22/2006	646.04	24.60	621.44	-	-	621.44
	03/16/2006	646.04	NR	-	NR	-	-
	04/12/2006	646.04	NR	-	NR	-	-
	05/17/2006	646.04	25.55	620.49	-	-	620.49
	06/15/2006	646.04	NR	-	NR	-	-
	07/10/2006	646.04	25.93	620.11	-	-	620.11
	08/18/2006	646.04	26.55	619.49	-	-	619.49
	10/24/2006	646.04	NR	-	NR	-	-
	01/04/2007	646.04	NR	-	NR	-	-
	02/01/2007	646.04	24.87	621.17	-	-	621.17
	05/07/2007	646.04	25.00	621.04	-	-	621.04
	05/30/2007	646.04	NR	-	NR	-	-
	07/30/2007	646.04	26.14	619.90	-	-	619.90
	10/07/2007	646.04	NR	-	NR	-	-
	01/07/2008	646.04	NR	-	NR	-	-
	02/26/2008	646.04	NR	-	NR	-	-
	07/01/2008	646.04	25.40	620.64	-	-	620.64
	09/18/2008	646.04	20.32	625.72	-	-	625.72
	10/23/2008	646.04	19.60	626.44	-	-	626.44
	12/30/2008	646.04	17.69	628.35	-	-	628.35
	01/28/2009	646.04	14.72	631.32	-	-	631.32
	02/24/2009	646.04	16.45	629.59	-	-	629.59
	03/27/2009	646.04	16.14	629.90	-	-	629.90
	04/28/2009	646.04	16.33	629.71	-	-	629.71
	05/20/2009	646.04	15.02	631.02	-	-	631.02
	06/25/2009	646.04	13.88	632.16	-	-	632.16
	07/20/2009	646.04	14.43	631.61	-	-	631.61
	08/25/2009	646.04	23.05	622.99	-	-	622.99
	09/16/2009	646.04	18.95	627.09	-	-	627.09
	10/13/2009	646.30	18.86	627.44	-	-	627.44
	11/10/2009	646.30	17.98	628.32	-	-	628.32
	12/14/2009	646.30	18.29	628.01	-	-	628.01
	01/11/2010	646.30	26.69	619.61	-	-	619.61
	02/10/2010	646.30	26.48	619.82	-	-	619.82
	03/10/2010	646.30	26.84	619.46	-	-	619.46
	04/14/2010	646.30	26.18	620.12	-	-	620.12
	05/12/2010	646.04	26.45	619.59	-	-	619.59
	06/17/2010	646.04	22.31	623.73	-	-	623.73
	07/14/2010	646.04	22.31	623.73	-	-	623.73
	08/09/2010	646.04	22.15	623.89	-	-	623.89
	09/16/2010	646.04	20.78	625.26	-	-	625.26
	10/13/2010	646.04	25.44	620.60	-	-	620.60
	11/16/2010	646.04	25.47	620.57	-	-	620.57
	12/16/2010	646.04	NR	-	NR	-	-
	01/13/2011	646.04	NR	-	NR	-	-
	03/14/2011	646.04	NR	-	NR	-	-
	04/12/2011	646.04	NR	-	NR	-	-
	05/19/2011	646.04	23.29	622.75	-	-	622.75

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
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Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/20/2011	646.04	24.01	622.03	-	-	622.03
	07/13/2011	646.04	20.41	625.63	-	-	625.63
2140-DPE05	01/08/2003	641.04	26.49	614.55	-	-	614.55
	09/08/2004	641.04	28.00	613.04	-	-	613.04
	09/22/2004	641.04	28.00	613.04	-	-	613.04
	10/08/2004	641.04	28.00	613.04	-	-	613.04
	10/29/2004	641.04	28.00	613.04	-	-	613.04
	11/04/2004	641.04	28.00	613.04	-	-	613.04
	11/08/2004	641.04	28.00	613.04	-	-	613.04
	12/01/2004	641.04	28.00	613.04	-	-	613.04
	12/15/2004	641.04	28.00	613.04	-	-	613.04
	01/05/2005	641.04	28.00	613.04	-	-	613.04
	01/14/2005	641.04	28.00	613.04	-	-	613.04
	02/03/2005	641.04	27.00	614.04	-	-	614.04
	02/15/2005	641.04	27.00	614.04	-	-	614.04
	03/08/2005	641.04	28.00	613.04	-	-	613.04
	03/22/2005	641.04	28.00	613.04	-	-	613.04
	04/11/2005	641.04	28.00	613.04	-	-	613.04
	04/25/2005	641.04	25.75	615.29	-	-	615.29
	05/03/2005	641.04	28.00	613.04	-	-	613.04
	05/25/2005	641.04	NR	-	NR	-	-
	06/02/2005	641.04	NR	-	NR	-	-
	06/20/2005	641.04	NR	-	NR	-	-
	06/29/2005	641.04	NR	-	NR	-	-
	07/07/2005	641.04	NR	-	NR	-	-
	07/27/2005	641.04	26.43	614.61	-	-	614.61
	08/05/2005	641.04	26.38	614.66	-	-	614.66
	08/15/2005	641.04	NR	-	NR	-	-
	09/06/2005	641.04	26.32	614.72	-	-	614.72
	09/23/2005	641.04	26.23	614.81	-	-	614.81
	10/07/2005	641.04	NR	-	NR	-	-
	10/25/2005	641.04	NR	-	NR	-	-
	12/13/2005	641.04	23.98	617.06	-	-	617.06
	01/06/2006	641.04	NR	-	NR	-	-
	02/09/2006	641.04	23.73	617.31	-	-	617.31
	02/22/2006	641.04	23.63	617.41	-	-	617.41
	03/16/2006	641.04	NR	-	NR	-	-
	04/12/2006	641.04	NR	-	NR	-	-
	05/17/2006	641.04	24.76	616.28	-	-	616.28
	06/15/2006	641.04	NR	-	NR	-	-
	07/10/2006	641.04	25.27	615.77	-	-	615.77
	08/18/2006	641.04	25.92	615.12	-	-	615.12
	10/24/2006	641.04	NR	-	NR	-	-
	01/04/2007	641.04	NR	-	NR	-	-
	02/01/2007	641.04	24.12	616.92	-	-	616.92
	05/07/2007	641.04	24.65	616.39	-	-	616.39
	05/30/2007	641.04	NR	-	NR	-	-
	07/30/2007	641.04	25.54	615.50	-	-	615.50
	10/07/2007	641.04	NR	-	NR	-	-

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/07/2008	641.04	NR	-	NR	-	-
	02/26/2008	641.04	NR	-	NR	-	-
	07/01/2008	641.04	24.55	616.49	-	-	616.49
2140-DPE06	01/08/2003	640.49	26.18	614.31	-	-	614.31
	09/08/2004	640.49	28.00	612.49	-	-	612.49
	09/22/2004	640.49	28.00	612.49	-	-	612.49
	10/08/2004	640.49	28.00	612.49	-	-	612.49
	10/29/2004	640.49	28.00	612.49	-	-	612.49
	11/04/2004	640.49	28.00	612.49	-	-	612.49
	11/08/2004	640.49	28.00	612.49	-	-	612.49
	12/01/2004	640.49	28.00	612.49	-	-	612.49
	12/15/2004	640.49	28.00	612.49	-	-	612.49
	01/05/2005	640.49	28.00	612.49	-	-	612.49
	01/14/2005	640.49	28.00	612.49	-	-	612.49
	02/03/2005	640.49	28.00	612.49	-	-	612.49
	02/15/2005	640.49	28.00	612.49	-	-	612.49
	03/08/2005	640.49	28.00	612.49	-	-	612.49
	03/22/2005	640.49	28.00	612.49	-	-	612.49
	04/11/2005	640.49	28.00	612.49	-	-	612.49
	04/25/2005	640.49	25.52	614.97	-	-	614.97
	05/03/2005	640.49	28.00	612.49	-	-	612.49
	05/25/2005	640.49	NR	-	NR	-	-
	06/02/2005	640.49	NR	-	NR	-	-
	06/20/2005	640.49	NR	-	NR	-	-
	06/29/2005	640.49	NR	-	NR	-	-
	07/07/2005	640.49	NR	-	NR	-	-
	07/27/2005	640.49	26.07	614.42	-	-	614.42
	08/05/2005	640.49	26.02	614.47	-	-	614.47
	08/15/2005	640.49	NR	-	NR	-	-
	09/06/2005	640.49	25.92	614.57	-	-	614.57
	09/23/2005	640.49	25.91	614.58	-	-	614.58
	10/07/2005	640.49	NR	-	NR	-	-
	10/25/2005	640.49	NR	-	NR	-	-
	12/13/2005	640.49	23.73	616.76	-	-	616.76
	01/06/2006	640.49	NR	-	NR	-	-
	02/09/2006	640.49	23.49	617.00	-	-	617.00
	02/22/2006	640.49	23.44	617.05	-	-	617.05
	03/16/2006	640.49	NR	-	NR	-	-
	04/12/2006	640.49	NR	-	NR	-	-
	05/17/2006	640.49	24.44	616.05	-	-	616.05
	06/15/2006	640.49	NR	-	NR	-	-
	07/10/2006	640.49	25.00	615.49	-	-	615.49
	08/18/2006	640.49	25.52	614.97	-	-	614.97
	10/24/2006	640.49	NR	-	NR	-	-
	01/04/2007	640.49	NR	-	NR	-	-
	02/01/2007	640.49	23.83	616.66	-	-	616.66
	05/07/2007	640.49	23.11	617.38	-	-	617.38
	05/30/2007	640.49	NR	-	NR	-	-
	07/30/2007	640.49	25.11	615.38	-	-	615.38

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	10/07/2007	640.49	NR	-	NR	-	-
	01/07/2008	640.49	NR	-	NR	-	-
	02/26/2008	640.49	NR	-	NR	-	-
	07/01/2008	640.49	24.15	616.34	-	-	616.34
	09/18/2008	640.49	19.60	620.89	-	-	620.89
	10/23/2008	640.49	17.90	622.59	-	-	622.59
	12/30/2008	640.49	16.74	623.75	-	-	623.75
	01/28/2009	640.49	15.20	625.29	-	-	625.29
	02/24/2009	640.49	16.81	623.68	-	-	623.68
	03/27/2009	640.49	16.08	624.41	-	-	624.41
	04/28/2009	640.49	17.26	623.23	-	-	623.23
	05/20/2009	640.49	16.08	624.41	-	-	624.41
	06/25/2009	640.49	15.18	625.31	-	-	625.31
	07/20/2009	640.49	19.03	621.46	-	-	621.46
	08/25/2009	640.49	22.70	617.79	-	-	617.79
	09/16/2009	640.49	17.95	622.54	-	-	622.54
	10/13/2009	646.30	19.03	627.27	-	-	627.27
	11/10/2009	646.30	17.86	628.44	-	-	628.44
	12/14/2009	646.30	19.48	626.82	-	-	626.82
	01/11/2010	646.30	25.25	621.05	-	-	621.05
	02/10/2010	646.30	24.92	621.38	-	-	621.38
	03/10/2010	646.30	25.29	621.01	-	-	621.01
	04/14/2010	646.30	24.67	621.63	-	-	621.63
	05/12/2010	640.49	24.96	615.53	-	-	615.53
	06/17/2010	640.49	23.14	617.35	-	-	617.35
	07/14/2010	640.49	23.14	617.35	-	-	617.35
	08/09/2010	640.49	22.98	617.51	-	-	617.51
	09/16/2010	640.49	22.22	618.27	-	-	618.27
	10/13/2010	640.49	24.16	616.33	-	-	616.33
	11/16/2010	640.49	24.06	616.43	-	-	616.43
	12/16/2010	640.49	NR	-	NR	-	-
	01/13/2011	640.49	NR	-	NR	-	-
	03/14/2011	640.49	NR	-	NR	-	-
	04/12/2011	640.49	NR	-	NR	-	-
	05/19/2011	640.49	21.91	618.58	-	-	618.58
	06/20/2011	640.49	22.78	617.71	-	-	617.71
	07/13/2011	640.49	21.04	619.45	-	-	619.45
2140-DPE07	01/08/2003	638.00	26.97	611.03	-	-	611.03
	09/08/2004	638.00	26.40	611.60	-	-	611.60
	09/22/2004	638.00	26.31	611.69	-	-	611.69
	10/08/2004	638.00	27.69	610.31	-	-	610.31
	10/29/2004	638.00	26.78	611.22	-	-	611.22
	11/04/2004	638.00	26.85	611.15	-	-	611.15
	11/08/2004	638.00	NR	-	NR	-	-
	12/01/2004	638.00	26.93	611.07	-	-	611.07
	12/15/2004	638.00	26.41	611.59	-	-	611.59
	01/05/2005	638.00	25.73	612.27	-	-	612.27
	01/14/2005	638.00	25.86	612.14	-	-	612.14
	02/03/2005	638.00	25.65	612.35	-	-	612.35



**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	02/15/2005	638.00	25.92	612.08	-	-	612.08
	03/08/2005	638.00	25.70	612.30	-	-	612.30
	03/22/2005	638.00	26.09	611.91	-	-	611.91
	04/11/2005	638.00	25.64	612.36	-	-	612.36
	04/25/2005	638.00	25.50	612.50	-	-	612.50
	05/03/2005	638.00	25.60	612.40	-	-	612.40
	05/25/2005	638.00	NR	-	NR	-	-
	06/02/2005	638.00	NR	-	NR	-	-
	06/20/2005	638.00	NR	-	NR	-	-
	06/29/2005	638.00	NR	-	NR	-	-
	07/07/2005	638.00	NR	-	NR	-	-
	07/27/2005	638.00	26.59	611.41	-	-	611.41
	08/05/2005	638.00	26.33	611.67	-	-	611.67
	08/15/2005	638.00	NR	-	NR	-	-
	09/06/2005	638.00	26.35	611.65	-	-	611.65
	09/23/2005	638.00	26.83	611.17	-	-	611.17
	10/07/2005	638.00	NR	-	NR	-	-
	10/25/2005	638.00	NR	-	NR	-	-
	12/13/2005	638.00	25.84	612.16	-	-	612.16
	01/06/2006	638.00	NR	-	NR	-	-
	02/09/2006	638.00	23.80	614.20	-	-	614.20
	02/22/2006	638.00	23.84	614.16	-	-	614.16
	03/16/2006	638.00	NR	-	NR	-	-
	04/12/2006	638.00	NR	-	NR	-	-
	05/17/2006	638.00	24.73	613.27	-	-	613.27
	06/15/2006	638.00	NR	-	NR	-	-
	07/10/2006	638.00	25.30	612.70	-	-	612.70
	08/18/2006	638.00	25.94	612.06	-	-	612.06
	10/24/2006	638.00	NR	-	NR	-	-
	01/04/2007	638.00	NR	-	NR	-	-
	02/01/2007	638.00	24.12	613.88	-	-	613.88
	05/07/2007	638.00	25.51	612.49	-	-	612.49
	05/30/2007	638.00	NR	-	NR	-	-
	07/30/2007	638.00	25.82	612.18	-	-	612.18
	10/07/2007	638.00	25.61	612.39	-	-	612.39
	01/07/2008	638.00	25.03	612.97	-	-	612.97
	02/26/2008	638.00	23.85	614.15	-	-	614.15
	07/01/2008	638.00	26.15	611.85	-	-	611.85
2140-DPE08	01/08/2003	638.54	27.66	610.88	-	-	610.88
	09/08/2004	638.54	27.76	610.78	-	-	610.78
	09/22/2004	638.54	27.65	610.89	-	-	610.89
	10/08/2004	638.54	27.99	610.55	-	-	610.55
	10/29/2004	638.54	28.08	610.46	-	-	610.46
	11/04/2004	638.54	28.13	610.41	-	-	610.41
	11/08/2004	638.54	NR	-	NR	-	-
	12/01/2004	638.54	28.15	610.39	-	-	610.39
	12/15/2004	638.54	27.60	610.94	-	-	610.94
	01/05/2005	638.54	27.16	611.38	-	-	611.38
	01/14/2005	638.54	27.80	610.74	-	-	610.74

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	02/03/2005	638.54	27.01	611.53	-	-	611.53
	02/15/2005	638.54	27.29	611.25	-	-	611.25
	03/08/2005	638.54	27.06	611.48	-	-	611.48
	03/22/2005	638.54	27.42	611.12	-	-	611.12
	04/11/2005	638.54	26.85	611.69	-	-	611.69
	04/25/2005	638.54	26.80	611.74	-	-	611.74
	05/03/2005	638.54	26.95	611.59	-	-	611.59
	05/25/2005	638.54	NR	-	NR	-	-
	06/02/2005	638.54	NR	-	NR	-	-
	06/20/2005	638.54	NR	-	NR	-	-
	06/29/2005	638.54	NR	-	NR	-	-
	07/07/2005	638.54	NR	-	NR	-	-
	07/27/2005	638.54	28.05	610.49	-	-	610.49
	08/05/2005	638.54	27.50	611.04	-	-	611.04
	08/15/2005	638.54	NR	-	NR	-	-
	09/06/2005	638.54	27.42	611.12	-	-	611.12
	09/23/2005	638.54	27.33	611.21	-	-	611.21
	10/07/2005	638.54	NR	-	NR	-	-
	10/25/2005	638.54	NR	-	NR	-	-
	12/13/2005	638.54	25.74	612.80	-	-	612.80
	01/06/2006	638.54	NR	-	NR	-	-
	02/09/2006	638.54	25.31	613.23	-	-	613.23
	02/22/2006	638.54	25.32	613.22	-	-	613.22
	03/16/2006	638.54	NR	-	NR	-	-
	04/12/2006	638.54	NR	-	NR	-	-
	05/17/2006	638.54	26.08	612.46	-	-	612.46
	06/15/2006	638.54	NR	-	NR	-	-
	07/10/2006	638.54	26.54	612.00	-	-	612.00
	08/18/2006	638.54	27.02	611.52	-	-	611.52
	10/24/2006	638.54	NR	-	NR	-	-
	01/04/2007	638.54	NR	-	NR	-	-
	02/01/2007	638.54	25.54	613.00	-	-	613.00
	05/07/2007	638.54	26.03	612.51	-	-	612.51
	05/30/2007	638.54	NR	-	NR	-	-
	07/30/2007	638.54	26.68	611.86	-	-	611.86
	10/07/2007	638.54	26.97	611.57	-	-	611.57
	01/07/2008	638.54	26.54	612.00	-	-	612.00
	02/26/2008	638.54	25.39	613.15	-	-	613.15
	07/01/2008	638.54	25.90	612.64	-	-	612.64
	09/18/2008	638.54	26.09	612.45	-	-	612.45
	10/23/2008	638.54	26.22	612.32	-	-	612.32
	12/30/2008	638.54	24.16	614.38	-	-	614.38
	01/28/2009	638.54	15.29	623.25	-	-	623.25
	02/24/2009	638.54	16.11	622.43	-	-	622.43
	03/27/2009	638.54	15.55	622.99	-	-	622.99
	04/28/2009	638.54	16.21	622.33	-	-	622.33
	05/20/2009	638.54	15.11	623.43	-	-	623.43
	06/25/2009	638.54	14.17	624.37	-	-	624.37
	07/20/2009	638.54	14.47	624.07	-	-	624.07
	08/25/2009	638.54	18.85	619.69	-	-	619.69

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	09/16/2009	638.54	17.91	620.63	-	-	620.63
	10/13/2009	646.30	19.09	627.21	-	-	627.21
	11/10/2009	646.30	16.62	629.68	-	-	629.68
	12/14/2009	646.30	17.03	629.27	-	-	629.27
	01/11/2010	646.30	26.58	619.72	-	-	619.72
	02/10/2010	646.30	26.23	620.07	-	-	620.07
	03/10/2010	646.30	26.62	619.68	-	-	619.68
	04/14/2010	646.30	26.16	620.14	-	-	620.14
	05/12/2010	638.54	26.43	612.11	-	-	612.11
	06/17/2010	638.54	21.64	616.90	-	-	616.90
	07/14/2010	638.54	21.52	617.02	-	-	617.02
	08/09/2010	638.54	22.34	616.20	-	-	616.20
	09/16/2010	638.54	21.84	616.70	-	-	616.70
	10/13/2010	638.54	25.94	612.60	-	-	612.60
	11/16/2010	638.54	25.89	612.65	-	-	612.65
	12/16/2010	638.54	NR	-	NR	-	-
	01/13/2011	638.54	NR	-	NR	-	-
	03/14/2011	638.54	NR	-	NR	-	-
	04/12/2011	638.54	NR	-	NR	-	-
	05/19/2011	638.54	23.64	614.90	-	-	614.90
	06/20/2011	638.54	25.08	613.46	-	-	613.46
	07/13/2011	638.54	24.48	614.06	-	-	614.06
2140-DPE09	01/08/2003	633.87	24.94	608.93	-	-	608.93
	09/08/2004	633.87	29.00	604.87	-	-	604.87
	09/22/2004	633.87	29.00	604.87	-	-	604.87
	10/08/2004	633.87	29.00	604.87	-	-	604.87
	10/29/2004	633.87	29.00	604.87	-	-	604.87
	11/04/2004	633.87	29.00	604.87	-	-	604.87
	11/08/2004	633.87	29.00	604.87	-	-	604.87
	12/01/2004	633.87	29.00	604.87	-	-	604.87
	12/15/2004	633.87	29.00	604.87	-	-	604.87
	01/05/2005	633.87	29.00	604.87	-	-	604.87
	01/14/2005	633.87	29.00	604.87	-	-	604.87
	02/03/2005	633.87	28.00	605.87	-	-	605.87
	02/15/2005	633.87	28.00	605.87	-	-	605.87
	03/08/2005	633.87	29.00	604.87	-	-	604.87
	03/22/2005	633.87	29.00	604.87	-	-	604.87
	04/11/2005	633.87	29.00	604.87	-	-	604.87
	04/25/2005	633.87	23.87	610.00	-	-	610.00
	05/03/2005	633.87	29.00	604.87	-	-	604.87
	05/25/2005	633.87	NR	-	NR	-	-
	06/02/2005	633.87	NR	-	NR	-	-
	06/20/2005	633.87	NR	-	NR	-	-
	06/29/2005	633.87	NR	-	NR	-	-
	07/07/2005	633.87	NR	-	NR	-	-
	07/27/2005	633.87	25.26	608.61	-	-	608.61
	08/05/2005	633.87	25.31	608.56	-	-	608.56
	08/15/2005	633.87	NR	-	NR	-	-
	09/06/2005	633.87	25.28	608.59	-	-	608.59

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	09/23/2005	633.87	25.09	608.78	-	-	608.78
	10/07/2005	633.87	NR	-	NR	-	-
	10/25/2005	633.87	NR	-	NR	-	-
	12/13/2005	633.87	23.01	610.86	-	-	610.86
	01/06/2006	633.87	NR	-	NR	-	-
	02/09/2006	633.87	22.83	611.04	-	-	611.04
	02/22/2006	633.87	22.88	610.99	-	-	610.99
	03/16/2006	633.87	NR	-	NR	-	-
	04/12/2006	633.87	NR	-	NR	-	-
	05/17/2006	633.87	23.95	609.92	-	-	609.92
	06/15/2006	633.87	NR	-	NR	-	-
	07/10/2006	633.87	24.58	609.29	-	-	609.29
	08/18/2006	633.87	25.38	608.49	-	-	608.49
	10/24/2006	633.87	NR	-	NR	-	-
	01/04/2007	633.87	NR	-	NR	-	-
	02/01/2007	633.87	24.63	609.24	-	-	609.24
	05/07/2007	633.87	23.14	610.73	-	-	610.73
	05/30/2007	633.87	NR	-	NR	-	-
	07/30/2007	633.87	25.07	608.80	-	-	608.80
	10/07/2007	633.87	NR	-	NR	-	-
	01/07/2008	633.87	NR	-	NR	-	-
	02/26/2008	633.87	NR	-	NR	-	-
	07/01/2008	633.87	24.10	609.77	-	-	609.77
	09/18/2008	633.87	24.18	609.69	-	-	609.69
	10/23/2008	633.87	23.85	610.02	-	-	610.02
	12/30/2008	633.87	23.68	610.19	-	-	610.19
	01/28/2009	633.87	22.54	611.33	-	-	611.33
	02/24/2009	633.87	22.73	611.14	-	-	611.14
	03/27/2009	633.87	19.37	614.50	-	-	614.50
	04/28/2009	633.87	18.42	615.45	-	-	615.45
	05/20/2009	633.87	16.92	616.95	-	-	616.95
	06/25/2009	633.87	15.78	618.09	-	-	618.09
	07/20/2009	633.87	18.22	615.65	-	-	615.65
	08/25/2009	633.87	24.36	609.51	-	-	609.51
	09/16/2009	633.87	22.38	611.49	-	-	611.49
	10/13/2009	646.30	23.28	623.02	-	-	623.02
	11/10/2009	646.30	22.09	624.21	-	-	624.21
	12/14/2009	646.30	22.31	623.99	-	-	623.99
	01/11/2010	646.30	24.83	621.47	-	-	621.47
	02/10/2010	646.30	24.29	622.01	-	-	622.01
	03/10/2010	646.30	24.71	621.59	-	-	621.59
	04/14/2010	646.30	24.14	622.16	-	-	622.16
	05/12/2010	633.87	24.51	609.36	-	-	609.36
	06/17/2010	633.87	24.33	609.54	-	-	609.54
	07/14/2010	633.87	24.49	609.38	-	-	609.38
	08/09/2010	633.87	24.11	609.76	-	-	609.76
	09/16/2010	633.87	24.49	609.38	-	-	609.38
	10/13/2010	633.87	23.96	609.91	-	-	609.91
	11/16/2010	633.87	24.18	609.69	-	-	609.69
	12/16/2010	633.87	NR	-	NR	-	-

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	01/13/2011	633.87	NR	-	NR	-	-
	03/14/2011	633.87	NR	-	NR	-	-
	04/12/2011	633.87	NR	-	NR	-	-
	05/19/2011	633.87	19.94	613.93	-	-	613.93
	06/20/2011	633.87	23.23	610.64	-	-	610.64
	07/13/2011	633.87	22.68	611.19	-	-	611.19
2140-DPE10	01/08/2003	633.50	24.62	608.88	-	-	608.88
	09/08/2004	633.50	27.00	606.50	-	-	606.50
	09/22/2004	633.50	27.00	606.50	-	-	606.50
	10/08/2004	633.50	27.00	606.50	-	-	606.50
	10/29/2004	633.50	27.00	606.50	-	-	606.50
	11/04/2004	633.50	27.00	606.50	-	-	606.50
	11/08/2004	633.50	27.00	606.50	-	-	606.50
	12/01/2004	633.50	27.00	606.50	-	-	606.50
	12/15/2004	633.50	27.00	606.50	-	-	606.50
	01/05/2005	633.50	27.00	606.50	-	-	606.50
	01/14/2005	633.50	27.00	606.50	-	-	606.50
	02/03/2005	633.50	27.00	606.50	-	-	606.50
	02/15/2005	633.50	27.00	606.50	-	-	606.50
	03/08/2005	633.50	27.00	606.50	-	-	606.50
	03/22/2005	633.50	27.00	606.50	-	-	606.50
	04/11/2005	633.50	27.00	606.50	-	-	606.50
	04/25/2005	633.50	24.70	608.80	-	-	608.80
	05/03/2005	633.50	27.00	606.50	-	-	606.50
	05/25/2005	633.50	NR	-	NR	-	-
	06/02/2005	633.50	NR	-	NR	-	-
	06/20/2005	633.50	NR	-	NR	-	-
	06/29/2005	633.50	NR	-	NR	-	-
	07/07/2005	633.50	NR	-	NR	-	-
	07/27/2005	633.50	25.23	608.27	-	-	608.27
	08/05/2005	633.50	24.64	608.86	-	-	608.86
	08/15/2005	633.50	NR	-	NR	-	-
	09/06/2005	633.50	24.63	608.87	-	-	608.87
	09/23/2005	633.50	24.78	608.72	-	-	608.72
	10/07/2005	633.50	NR	-	NR	-	-
	10/25/2005	633.50	NR	-	NR	-	-
	12/13/2005	633.50	22.65	610.85	-	-	610.85
	01/06/2006	633.50	NR	-	NR	-	-
	02/09/2006	633.50	22.44	611.06	-	-	611.06
	02/22/2006	633.50	22.49	611.01	-	-	611.01
	03/16/2006	633.50	NR	-	NR	-	-
	04/12/2006	633.50	NR	-	NR	-	-
	05/17/2006	633.50	23.55	609.95	-	-	609.95
	06/15/2006	633.50	NR	-	NR	-	-
	07/10/2006	633.50	23.97	609.53	-	-	609.53
	08/18/2006	633.50	24.73	608.77	-	-	608.77
	10/24/2006	633.50	NR	-	NR	-	-
	01/04/2007	633.50	NR	-	NR	-	-
	02/01/2007	633.50	23.16	610.34	-	-	610.34

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	05/07/2007	633.50	22.85	610.65	-	-	610.65
	05/30/2007	633.50	NR	-	NR	-	-
	07/30/2007	633.50	24.42	609.08	-	-	609.08
	10/07/2007	633.50	NR	-	NR	-	-
	01/07/2008	633.50	NR	-	NR	-	-
	02/26/2008	633.50	NR	-	NR	-	-
	07/01/2008	633.50	23.75	609.75	-	-	609.75
	09/18/2008	633.50	24.65	608.85	-	-	608.85
	10/23/2008	633.50	24.62	608.88	-	-	608.88
	12/30/2008	633.50	24.61	608.89	-	-	608.89
	01/28/2009	633.50	24.95	608.55	-	-	608.55
	02/24/2009	633.50	25.45	608.05	-	-	608.05
	03/27/2009	633.50	16.33	617.17	-	-	617.17
	04/28/2009	633.50	17.42	616.08	-	-	616.08
	05/20/2009	633.50	17.31	616.19	-	-	616.19
	06/25/2009	633.50	16.73	616.77	-	-	616.77
	07/20/2009	633.50	18.27	615.23	-	-	615.23
	08/25/2009	633.50	22.65	610.85	-	-	610.85
	09/16/2009	633.50	12.21	621.29	-	-	621.29
	10/13/2009	646.30	22.32	623.98	-	-	623.98
	11/10/2009	646.30	21.08	625.22	-	-	625.22
	12/14/2009	646.30	21.42	624.88	-	-	624.88
	01/11/2010	646.30	24.21	622.09	-	-	622.09
	02/10/2010	646.30	23.76	622.54	-	-	622.54
	03/10/2010	646.30	24.19	622.11	-	-	622.11
	04/14/2010	646.30	23.69	622.61	-	-	622.61
	05/12/2010	633.50	24.03	609.47	-	-	609.47
	06/17/2010	633.50	23.25	610.25	-	-	610.25
	07/14/2010	633.50	23.48	610.02	-	-	610.02
	08/09/2010	633.50	22.79	610.71	-	-	610.71
	09/16/2010	633.50	23.58	609.92	-	-	609.92
	10/13/2010	633.50	23.49	610.01	-	-	610.01
	11/16/2010	633.50	23.64	609.86	-	-	609.86
	12/16/2010	633.50	NR	-	NR	-	-
	01/13/2011	633.50	NR	-	NR	-	-
	03/14/2011	633.50	NR	-	NR	-	-
	04/12/2011	633.50	NR	-	NR	-	-
	05/19/2011	633.50	18.16	615.34	-	-	615.34
	06/20/2011	633.50	22.84	610.66	-	-	610.66
	07/13/2011	633.50	21.97	611.53	-	-	611.53
2140-EX01	01/08/2003	646.34	NR	-	NR	-	-
	09/08/2004	646.33	27.12	619.21	-	-	619.21
	09/22/2004	646.33	27.01	619.32	-	-	619.32
	10/08/2004	646.33	27.46	618.87	-	-	618.87
	10/29/2004	646.33	27.60	618.73	-	-	618.73
	11/04/2004	646.33	27.70	618.63	-	-	618.63
	11/08/2004	646.33	27.61	618.72	-	-	618.72
	12/01/2004	646.33	27.82	618.51	-	-	618.51
	12/15/2004	646.33	27.26	619.07	-	-	619.07

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	01/05/2005	646.33	26.77	619.56	-	-	619.56
	01/14/2005	646.33	NR	-	NR	-	-
	02/03/2005	646.33	NR	-	NR	-	-
	02/15/2005	646.33	NR	-	NR	-	-
	03/08/2005	646.33	NR	-	NR	-	-
	03/22/2005	646.33	27.19	619.14	-	-	619.14
	04/11/2005	646.33	26.70	619.63	-	-	619.63
	04/25/2005	646.33	25.94	620.39	-	-	620.39
	05/03/2005	646.33	25.61	620.72	-	-	620.72
	05/25/2005	646.33	26.98	619.35	-	-	619.35
	06/02/2005	646.33	NR	-	NR	-	-
	06/20/2005	646.33	27.15	619.18	-	-	619.18
	06/29/2005	646.33	27.25	619.08	-	-	619.08
	07/07/2005	646.33	27.38	618.95	-	-	618.95
	07/27/2005	646.33	26.50	619.83	-	-	619.83
	08/05/2005	646.33	26.45	619.88	-	-	619.88
	08/15/2005	646.33	27.60	618.73	-	-	618.73
	09/06/2005	646.33	26.30	620.03	-	-	620.03
	09/23/2005	646.33	26.23	620.10	-	-	620.10
	10/07/2005	646.33	26.90	619.43	-	-	619.43
	10/25/2005	646.33	26.54	619.79	-	-	619.79
	12/13/2005	646.33	NR	-	NR	-	-
	01/06/2006	646.33	NR	-	NR	-	-
	02/09/2006	646.33	NR	-	NR	-	-
	02/22/2006	646.33	NR	-	NR	-	-
	03/16/2006	646.33	23.75	622.58	-	-	622.58
	04/12/2006	646.33	23.80	622.53	-	-	622.53
	05/17/2006	646.33	24.35	621.98	-	-	621.98
	06/15/2006	646.33	24.42	621.91	-	-	621.91
	07/10/2006	646.33	24.71	621.62	-	-	621.62
	08/18/2006	646.33	25.29	621.04	-	-	621.04
	10/24/2006	646.33	25.43	620.90	-	-	620.90
	01/04/2007	646.33	23.62	622.71	-	-	622.71
	02/01/2007	646.33	23.63	622.70	-	-	622.70
	05/07/2007	646.33	23.38	622.95	-	-	622.95
	05/30/2007	646.33	22.13	624.20	-	-	624.20
	07/30/2007	646.33	24.83	621.50	-	-	621.50
	10/07/2007	646.33	25.77	620.56	-	-	620.56
	01/07/2008	646.33	25.65	620.68	-	-	620.68
	02/26/2008	646.33	NR	-	NR	-	-
2140-EX02	01/08/2003	642.31	27.19	615.12	-	-	615.12
	09/08/2004	642.05	27.62	614.43	-	-	614.43
	09/22/2004	642.05	27.67	614.38	-	-	614.38
	10/08/2004	642.05	28.03	614.02	-	-	614.02
	10/29/2004	642.05	28.01	614.04	-	-	614.04
	11/04/2004	642.05	28.17	613.88	-	-	613.88
	11/08/2004	642.05	27.93	614.12	-	-	614.12
	12/01/2004	642.05	28.30	613.75	-	-	613.75
	12/15/2004	642.05	27.61	614.44	-	-	614.44

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	01/05/2005	642.05	27.77	614.28	-	-	614.28
	01/14/2005	642.05	27.17	614.88	-	-	614.88
	02/03/2005	642.05	26.78	615.27	-	-	615.27
	02/15/2005	642.05	27.35	614.70	-	-	614.70
	03/08/2005	642.05	27.13	614.92	-	-	614.92
	03/22/2005	642.05	27.01	615.04	-	-	615.04
	04/11/2005	642.05	26.95	615.10	-	-	615.10
	04/25/2005	642.05	26.44	615.61	-	-	615.61
	05/03/2005	642.05	26.82	615.23	-	-	615.23
	05/25/2005	642.05	27.39	614.66	-	-	614.66
	06/02/2005	642.05	27.35	614.70	-	-	614.70
	06/20/2005	642.05	27.59	614.46	-	-	614.46
	06/29/2005	642.05	27.58	614.47	-	-	614.47
	07/07/2005	642.05	26.69	615.36	-	-	615.36
	07/27/2005	642.05	27.18	614.87	-	-	614.87
	08/05/2005	642.05	27.12	614.93	-	-	614.93
	08/15/2005	642.05	28.02	614.03	-	-	614.03
	09/06/2005	642.05	27.08	614.97	-	-	614.97
	09/23/2005	642.05	27.04	615.01	-	-	615.01
	10/07/2005	642.05	27.42	614.63	-	-	614.63
	10/25/2005	642.05	26.13	615.92	-	-	615.92
	12/13/2005	642.05	25.45	616.60	-	-	616.60
	01/06/2006	642.05	25.67	616.38	-	-	616.38
	02/09/2006	642.05	24.31	617.74	-	-	617.74
	02/22/2006	642.05	24.25	617.80	-	-	617.80
	03/16/2006	642.05	24.74	617.31	-	-	617.31
	04/12/2006	642.05	25.05	617.00	-	-	617.00
	05/17/2006	642.05	24.46	617.59	-	-	617.59
	06/15/2006	642.05	24.42	617.63	-	-	617.63
	07/10/2006	642.05	25.99	616.06	-	-	616.06
	08/18/2006	642.05	26.64	615.41	-	-	615.41
	10/24/2006	642.05	26.03	616.02	-	-	616.02
	01/04/2007	642.05	24.58	617.47	-	-	617.47
	02/01/2007	642.05	24.86	617.19	-	-	617.19
	05/07/2007	642.05	25.36	616.69	-	-	616.69
	05/30/2007	642.05	23.06	618.99	-	-	618.99
	07/30/2007	642.05	26.42	615.63	-	-	615.63
	10/07/2007	642.05	27.66	614.39	-	-	614.39
	01/07/2008	642.05	26.48	615.57	-	-	615.57
	02/26/2008	642.05	25.13	616.92	-	-	616.92
2140-EX04	01/08/2003	641.50	27.18	614.32	-	-	614.32
	09/08/2004	641.61	27.28	614.33	-	-	614.33
	09/22/2004	641.61	27.27	614.34	-	-	614.34
	10/08/2004	641.61	27.46	614.15	-	-	614.15
	10/29/2004	641.61	27.78	613.83	-	-	613.83
	11/04/2004	641.61	27.71	613.90	-	-	613.90
	11/08/2004	641.61	27.58	614.03	-	-	614.03
	12/01/2004	641.61	27.71	613.90	-	-	613.90
	12/15/2004	641.61	27.26	614.35	-	-	614.35



**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	01/05/2005	641.61	26.04	615.57	-	-	615.57
	01/14/2005	641.61	26.49	615.12	-	-	615.12
	02/03/2005	641.61	25.92	615.69	-	-	615.69
	02/15/2005	641.61	26.34	615.27	-	-	615.27
	03/08/2005	641.61	25.94	615.67	-	-	615.67
	03/22/2005	641.61	26.70	614.91	-	-	614.91
	04/11/2005	641.61	26.09	615.52	-	-	615.52
	04/25/2005	641.61	25.51	616.10	-	-	616.10
	05/03/2005	641.61	25.89	615.72	-	-	615.72
	05/25/2005	641.61	26.39	615.22	-	-	615.22
	06/02/2005	641.61	26.43	615.18	-	-	615.18
	06/20/2005	641.61	26.53	615.08	-	-	615.08
	06/29/2005	641.61	26.85	614.76	-	-	614.76
	07/07/2005	641.61	27.12	614.49	-	-	614.49
	07/27/2005	641.61	26.34	615.27	-	-	615.27
	08/05/2005	641.61	26.19	615.42	-	-	615.42
	08/15/2005	641.61	27.04	614.57	-	-	614.57
	09/06/2005	641.61	26.00	615.61	-	-	615.61
	09/23/2005	641.61	25.90	615.71	-	-	615.71
	10/07/2005	641.61	26.09	615.52	-	-	615.52
	10/25/2005	641.61	25.05	616.56	-	-	616.56
	12/13/2005	641.61	23.08	618.53	-	-	618.53
	01/06/2006	641.61	24.22	617.39	-	-	617.39
	02/09/2006	641.61	22.92	618.69	-	-	618.69
	02/22/2006	641.61	22.91	618.70	-	-	618.70
	03/16/2006	641.61	23.48	618.13	-	-	618.13
	04/12/2006	641.61	23.93	617.68	-	-	617.68
	05/17/2006	641.61	24.71	616.90	-	-	616.90
	06/15/2006	641.61	24.45	617.16	-	-	617.16
	07/10/2006	641.61	25.27	616.34	-	-	616.34
	08/18/2006	641.61	25.86	615.75	-	-	615.75
	10/24/2006	641.61	26.85	614.76	-	-	614.76
	01/04/2007	641.61	23.41	618.20	-	-	618.20
	02/01/2007	641.61	23.81	617.80	-	-	617.80
	05/07/2007	641.61	24.62	616.99	-	-	616.99
	05/30/2007	641.61	21.08	620.53	-	-	620.53
	07/30/2007	641.61	25.50	616.11	-	-	616.11
	10/07/2007	641.61	25.68	615.93	-	-	615.93
	01/07/2008	641.61	25.34	616.27	-	-	616.27
	02/26/2008	641.61	23.76	617.85	-	-	617.85
2140-MW01	01/08/2003	650.67	NR	-	NR	-	-
	09/08/2004	650.67	24.99	625.68	-	-	625.68
	09/15/2004	650.67	24.51	626.16	-	-	626.16
	09/22/2004	650.67	24.72	625.95	-	-	625.95
	10/08/2004	650.67	25.27	625.40	-	-	625.40
	10/29/2004	650.67	25.42	625.25	-	-	625.25
	11/04/2004	650.67	25.41	625.26	-	-	625.26
	11/08/2004	650.67	25.43	625.24	-	-	625.24
	12/01/2004	650.67	25.58	625.09	-	-	625.09

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	12/15/2004	650.67	25.10	625.57	-	-	625.57
	01/05/2005	650.67	24.68	625.99	-	-	625.99
	01/14/2005	650.67	24.68	625.99	-	-	625.99
	02/03/2005	650.67	24.50	626.17	-	-	626.17
	02/15/2005	650.67	24.62	626.05	-	-	626.05
	03/08/2005	650.67	25.01	625.66	-	-	625.66
	03/22/2005	650.67	25.22	625.45	-	-	625.45
	04/11/2005	650.67	24.44	626.23	-	-	626.23
	04/18/2005	650.67	24.55	626.12	-	-	626.12
	04/25/2005	650.67	24.45	626.22	-	-	626.22
	05/03/2005	650.67	24.38	626.29	-	-	626.29
	05/25/2005	650.67	24.92	625.75	-	-	625.75
	06/02/2005	650.67	25.19	625.48	-	-	625.48
	06/20/2005	650.67	24.99	625.68	-	-	625.68
	06/29/2005	650.67	25.49	625.18	-	-	625.18
	07/07/2005	650.67	25.68	624.99	-	-	624.99
	07/27/2005	650.67	25.23	625.44	-	-	625.44
	08/05/2005	650.67	25.29	625.38	-	-	625.38
	08/15/2005	650.67	25.70	624.97	-	-	624.97
	09/06/2005	650.67	24.88	625.79	-	-	625.79
	09/23/2005	650.67	24.69	625.98	-	-	625.98
	10/07/2005	650.67	24.42	626.25	-	-	626.25
	10/25/2005	650.67	23.68	626.99	-	-	626.99
	12/13/2005	650.67	22.70	627.97	-	-	627.97
	01/06/2006	650.67	23.23	627.44	-	-	627.44
	02/09/2006	650.67	22.37	628.30	-	-	628.30
	02/22/2006	650.67	22.32	628.35	-	-	628.35
	03/16/2006	650.67	22.10	628.57	-	-	628.57
	04/12/2006	650.67	22.56	628.11	-	-	628.11
	04/27/2006	650.67	22.70	627.97	-	-	627.97
	05/17/2006	650.67	23.14	627.53	-	-	627.53
	06/15/2006	650.67	23.35	627.32	-	-	627.32
	07/10/2006	650.67	23.52	627.15	-	-	627.15
	08/18/2006	650.67	24.13	626.54	-	-	626.54
	10/03/2006	650.67	24.15	626.52	-	-	626.52
	10/24/2006	650.67	24.29	626.38	-	-	626.38
	01/04/2007	650.67	22.88	627.79	-	-	627.79
	02/01/2007	650.67	22.80	627.87	-	-	627.87
	05/07/2007	650.67	22.17	628.50	-	-	628.50
	05/30/2007	650.67	22.69	627.98	-	-	627.98
	07/30/2007	650.67	23.71	626.96	-	-	626.96
	10/07/2007	650.67	25.16	625.51	-	-	625.51
	01/07/2008	650.67	24.99	625.68	-	-	625.68
	02/26/2008	650.67	23.55	627.12	-	-	627.12
	05/23/2007	650.67	22.61	628.06	-	-	628.06
2140-MW02	01/08/2003	647.09	26.13	620.96	-	-	620.96
	09/08/2004	647.15	25.92	621.23	-	-	621.23
	09/22/2004	647.15	NR	-	NR	-	-
	10/08/2004	647.15	26.20	620.95	-	-	620.95

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	10/29/2004	647.15	26.32	620.83	-	-	620.83
	11/04/2004	647.15	26.46	620.69	-	-	620.69
	11/08/2004	647.15	26.36	620.79	-	-	620.79
	12/01/2004	647.15	26.68	620.47	-	-	620.47
	12/15/2004	647.15	26.11	621.04	-	-	621.04
	01/05/2005	647.15	NR	-	NR	-	-
	01/14/2005	647.15	25.61	621.54	-	-	621.54
	02/03/2005	647.15	NR	-	NR	-	-
	02/15/2005	647.15	NR	-	NR	-	-
	03/08/2005	647.15	NR	-	NR	-	-
	03/22/2005	647.15	26.02	621.13	-	-	621.13
	04/11/2005	647.15	25.49	621.66	-	-	621.66
	04/25/2005	647.15	25.14	622.01	-	-	622.01
	05/03/2005	647.15	25.35	621.80	-	-	621.80
	05/25/2005	647.15	25.76	621.39	-	-	621.39
	06/02/2005	647.15	26.02	621.13	-	-	621.13
	06/20/2005	647.15	26.11	621.04	-	-	621.04
	06/29/2005	647.15	26.23	620.92	-	-	620.92
	07/07/2005	647.15	26.33	620.82	-	-	620.82
	07/27/2005	647.15	25.74	621.41	-	-	621.41
	08/05/2005	647.15	25.73	621.42	-	-	621.42
	08/15/2005	647.15	26.48	620.67	-	-	620.67
	09/06/2005	647.15	25.59	621.56	-	-	621.56
	09/23/2005	647.15	25.45	621.70	-	-	621.70
	10/07/2005	647.15	25.71	621.44	-	-	621.44
	10/25/2005	647.15	25.03	622.12	-	-	622.12
	12/13/2005	647.15	23.22	623.93	-	-	623.93
	01/06/2006	647.15	23.86	623.29	-	-	623.29
	02/09/2006	647.15	NR	-	NR	-	-
	02/22/2006	647.15	NR	-	NR	-	-
	03/16/2006	647.15	22.63	624.52	-	-	624.52
	04/12/2006	647.15	22.99	624.16	-	-	624.16
	05/17/2006	647.15	23.46	623.69	-	-	623.69
	06/15/2006	647.15	23.61	623.54	-	-	623.54
	07/10/2006	647.15	23.91	623.24	-	-	623.24
	08/18/2006	647.15	24.51	622.64	-	-	622.64
	10/24/2006	647.15	24.73	622.42	-	-	622.42
	01/04/2007	647.15	23.06	624.09	-	-	624.09
	02/01/2007	647.15	22.75	624.40	-	-	624.40
	05/07/2007	647.15	22.54	624.61	-	-	624.61
	05/30/2007	647.15	22.29	624.86	-	-	624.86
	07/30/2007	647.15	23.99	623.16	-	-	623.16
	10/07/2007	647.15	25.21	621.94	-	-	621.94
	01/07/2008	647.15	25.18	621.97	-	-	621.97
	02/26/2008	647.15	NR	-	NR	-	-
	07/01/2008	647.15	26.10	621.05	-	-	621.05
2140-MW03	01/08/2003	648.44	29.26	619.18	-	-	619.18
	09/08/2004	648.09	29.87	618.22	-	-	618.22
	09/22/2004	648.09	29.83	618.26	-	-	618.26

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	10/08/2004	648.09	30.26	617.83	-	-	617.83
	10/29/2004	648.09	30.37	617.72	-	-	617.72
	11/04/2004	648.09	30.46	617.63	-	-	617.63
	11/08/2004	648.09	30.21	617.88	-	-	617.88
	12/01/2004	648.09	30.56	617.53	-	-	617.53
	12/15/2004	648.09	29.99	618.10	-	-	618.10
	01/05/2005	648.09	29.55	618.54	-	-	618.54
	01/14/2005	648.09	29.61	618.48	-	-	618.48
	02/03/2005	648.09	29.22	618.87	-	-	618.87
	02/15/2005	648.09	29.70	618.39	-	-	618.39
	03/08/2005	648.09	29.40	618.69	-	-	618.69
	03/22/2005	648.09	29.96	618.13	-	-	618.13
	04/11/2005	648.09	29.48	618.61	-	-	618.61
	04/25/2005	648.09	28.77	619.32	-	-	619.32
	05/03/2005	648.09	29.30	618.79	-	-	618.79
	05/25/2005	648.09	29.74	618.35	-	-	618.35
	06/02/2005	648.09	29.86	618.23	-	-	618.23
	06/20/2005	648.09	29.87	618.22	-	-	618.22
	06/29/2005	648.09	29.98	618.11	-	-	618.11
	07/07/2005	648.09	30.08	618.01	-	-	618.01
	07/27/2005	648.09	29.33	618.76	-	-	618.76
	08/05/2005	648.09	29.29	618.80	-	-	618.80
	08/15/2005	648.09	30.31	617.78	-	-	617.78
	09/06/2005	648.09	29.15	618.94	-	-	618.94
	09/23/2005	648.09	29.07	619.02	-	-	619.02
	10/07/2005	648.09	29.63	618.46	-	-	618.46
	10/25/2005	648.09	28.83	619.26	-	-	619.26
	12/13/2005	648.09	26.74	621.35	-	-	621.35
	01/06/2006	648.09	27.65	620.44	-	-	620.44
	02/09/2006	648.09	26.38	621.71	-	-	621.71
	02/22/2006	648.09	26.26	621.83	-	-	621.83
	03/16/2006	648.09	26.69	621.40	-	-	621.40
	04/12/2006	648.09	26.64	621.45	-	-	621.45
	05/17/2006	648.09	27.22	620.87	-	-	620.87
	06/15/2006	648.09	27.19	620.90	-	-	620.90
	07/10/2006	648.09	27.60	620.49	-	-	620.49
	08/18/2006	648.09	28.23	619.86	-	-	619.86
	10/24/2006	648.09	28.43	619.66	-	-	619.66
	01/04/2007	648.09	26.43	621.66	-	-	621.66
	02/01/2007	648.09	26.50	621.59	-	-	621.59
	05/07/2007	648.09	26.50	621.59	-	-	621.59
	05/30/2007	648.09	24.62	623.47	-	-	623.47
	07/30/2007	648.09	27.82	620.27	-	-	620.27
	10/07/2007	648.09	28.58	619.51	-	-	619.51
	01/07/2008	648.09	28.50	619.59	-	-	619.59
	02/26/2008	648.09	27.09	621.00	-	-	621.00
	07/01/2008	648.09	27.45	620.64	-	-	620.64
2140-MW04	01/08/2003	645.87	27.90	617.97	-	-	617.97
	09/08/2004	645.94	28.43	617.51	-	-	617.51

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	09/22/2004	645.94	28.35	617.59	-	-	617.59
	10/08/2004	645.94	28.78	617.16	-	-	617.16
	10/29/2004	645.94	28.95	616.99	-	-	616.99
	11/04/2004	645.94	29.03	616.91	-	-	616.91
	11/08/2004	645.94	28.82	617.12	-	-	617.12
	12/01/2004	645.94	29.10	616.84	-	-	616.84
	12/15/2004	645.94	28.50	617.44	-	-	617.44
	01/05/2005	645.94	28.05	617.89	-	-	617.89
	01/14/2005	645.94	28.04	617.90	-	-	617.90
	02/03/2005	645.94	27.77	618.17	-	-	618.17
	02/15/2005	645.94	28.23	617.71	-	-	617.71
	03/08/2005	645.94	27.99	617.95	-	-	617.95
	03/22/2005	645.94	28.47	617.47	-	-	617.47
	04/11/2005	645.94	27.96	617.98	-	-	617.98
	04/25/2005	645.94	27.58	618.36	-	-	618.36
	05/03/2005	645.94	27.80	618.14	-	-	618.14
	05/25/2005	645.94	28.24	617.70	-	-	617.70
	06/02/2005	645.94	28.51	617.43	-	-	617.43
	06/20/2005	645.94	28.40	617.54	-	-	617.54
	06/29/2005	645.94	28.56	617.38	-	-	617.38
	07/07/2005	645.94	28.71	617.23	-	-	617.23
	07/27/2005	645.94	28.14	617.80	-	-	617.80
	08/05/2005	645.94	28.16	617.78	-	-	617.78
	08/15/2005	645.94	28.88	617.06	-	-	617.06
	09/06/2005	645.94	27.80	618.14	-	-	618.14
	09/23/2005	645.94	27.69	618.25	-	-	618.25
	10/07/2005	645.94	28.02	617.92	-	-	617.92
	10/25/2005	645.94	27.24	618.70	-	-	618.70
	12/13/2005	645.94	25.52	620.42	-	-	620.42
	01/06/2006	645.94	26.56	619.38	-	-	619.38
	02/09/2006	645.94	25.33	620.61	-	-	620.61
	02/22/2006	645.94	25.33	620.61	-	-	620.61
	03/16/2006	645.94	25.69	620.25	-	-	620.25
	04/12/2006	645.94	25.65	620.29	-	-	620.29
	05/17/2006	645.94	26.28	619.66	-	-	619.66
	06/15/2006	645.94	26.02	619.92	-	-	619.92
	07/10/2006	645.94	26.64	619.30	-	-	619.30
	08/18/2006	645.94	27.23	618.71	-	-	618.71
	10/24/2006	645.94	27.13	618.81	-	-	618.81
	01/04/2007	645.94	25.23	620.71	-	-	620.71
	02/01/2007	645.94	25.63	620.31	-	-	620.31
	05/07/2007	645.94	25.48	620.46	-	-	620.46
	05/30/2007	645.94	24.04	621.90	-	-	621.90
	07/30/2007	645.94	26.79	619.15	-	-	619.15
	10/07/2007	645.94	27.51	618.43	-	-	618.43
	01/07/2008	645.94	27.24	618.70	-	-	618.70
	02/26/2008	645.94	25.81	620.13	-	-	620.13
	07/01/2008	645.94	26.35	619.59	-	-	619.59

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
2140-MW05	01/08/2003	642.60	NR	-	NR	-	-
	09/08/2004	642.60	29.45	613.15	-	-	613.15
	09/22/2004	642.60	29.48	613.12	-	-	613.12
	10/08/2004	642.60	29.74	612.86	-	-	612.86
	10/29/2004	642.60	29.92	612.68	-	-	612.68
	11/04/2004	642.60	29.87	612.73	-	-	612.73
	11/08/2004	642.60	30.41	612.19	-	-	612.19
	12/01/2004	642.60	30.00	612.60	-	-	612.60
	12/15/2004	642.60	29.56	613.04	-	-	613.04
	01/05/2005	642.60	28.99	613.61	-	-	613.61
	01/14/2005	642.60	29.11	613.49	-	-	613.49
	02/03/2005	642.60	28.79	613.81	-	-	613.81
	02/15/2005	642.60	29.24	613.36	-	-	613.36
	03/08/2005	642.60	29.02	613.58	-	-	613.58
	03/22/2005	642.60	29.26	613.34	-	-	613.34
	04/11/2005	642.60	28.90	613.70	-	-	613.70
	04/25/2005	642.60	28.27	614.33	-	-	614.33
	05/03/2005	642.60	28.76	613.84	-	-	613.84
	05/25/2005	642.60	29.11	613.49	-	-	613.49
	06/02/2005	642.60	28.88	613.72	-	-	613.72
	06/20/2005	642.60	29.21	613.39	-	-	613.39
	06/29/2005	642.60	29.23	613.37	-	-	613.37
	07/07/2005	642.60	29.33	613.27	-	-	613.27
	07/27/2005	642.60	28.96	613.64	-	-	613.64
	08/05/2005	642.60	28.93	613.67	-	-	613.67
	08/15/2005	642.60	29.48	613.12	-	-	613.12
	09/06/2005	642.60	28.87	613.73	-	-	613.73
	09/23/2005	642.60	27.79	614.81	-	-	614.81
	10/07/2005	642.60	28.98	613.62	-	-	613.62
	10/25/2005	642.60	28.23	614.37	-	-	614.37
	12/13/2005	642.60	26.62	615.98	-	-	615.98
	01/06/2006	642.60	27.39	615.21	-	-	615.21
	02/09/2006	642.60	26.35	616.25	-	-	616.25
	02/22/2006	642.60	26.31	616.29	-	-	616.29
	03/16/2006	642.60	26.45	616.15	-	-	616.15
	04/12/2006	642.60	26.62	615.98	-	-	615.98
	05/17/2006	642.60	27.36	615.24	-	-	615.24
	06/15/2006	642.60	27.44	615.16	-	-	615.16
	07/10/2006	642.60	27.92	614.68	-	-	614.68
	08/18/2006	642.60	28.58	614.02	-	-	614.02
	10/24/2006	642.60	28.73	613.87	-	-	613.87
01/04/2007	642.60	26.16	616.44	-	-	616.44	
02/01/2007	642.60	26.72	615.88	-	-	615.88	
05/07/2007	642.60	27.26	615.34	-	-	615.34	
05/30/2007	642.60	26.53	616.07	-	-	616.07	
07/30/2007	642.60	28.29	614.31	-	-	614.31	
10/07/2007	642.60	29.01	613.59	-	-	613.59	
01/07/2008	642.60	28.16	614.44	-	-	614.44	
02/26/2008	642.60	26.78	615.82	-	-	615.82	
07/01/2008	642.60	24.00	618.60	-	-	618.60	

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
2140-MW06	01/08/2003	648.98	30.69	618.29	-	-	618.29
	09/08/2004	649.09	30.67	618.42	-	-	618.42
	09/22/2004	649.09	30.52	618.57	-	-	618.57
	10/08/2004	649.09	30.80	618.29	-	-	618.29
	10/29/2004	649.09	31.25	617.84	-	-	617.84
	11/04/2004	649.09	31.36	617.73	-	-	617.73
	11/08/2004	649.09	30.93	618.16	-	-	618.16
	12/01/2004	649.09	31.35	617.74	-	-	617.74
	12/15/2004	649.09	30.79	618.30	-	-	618.30
	01/05/2005	649.09	30.29	618.80	-	-	618.80
	01/14/2005	649.09	30.58	618.51	-	-	618.51
	02/03/2005	649.09	30.05	619.04	-	-	619.04
	02/15/2005	649.09	30.61	618.48	-	-	618.48
	03/08/2005	649.09	30.28	618.81	-	-	618.81
	03/22/2005	649.09	30.76	618.33	-	-	618.33
	04/11/2005	649.09	30.45	618.64	-	-	618.64
	04/25/2005	649.09	29.68	619.41	-	-	619.41
	05/03/2005	649.09	30.18	618.91	-	-	618.91
	05/25/2005	649.09	30.32	618.77	-	-	618.77
	06/02/2005	649.09	30.79	618.30	-	-	618.30
	06/20/2005	649.09	30.67	618.42	-	-	618.42
	06/29/2005	649.09	30.78	618.31	-	-	618.31
	07/07/2005	649.09	30.97	618.12	-	-	618.12
	07/27/2005	649.09	30.24	618.85	-	-	618.85
	08/05/2005	649.09	30.21	618.88	-	-	618.88
	08/15/2005	649.09	31.08	618.01	-	-	618.01
	09/06/2005	649.09	29.93	619.16	-	-	619.16
	09/23/2005	649.09	29.84	619.25	-	-	619.25
	10/07/2005	649.09	30.26	618.83	-	-	618.83
	10/25/2005	649.09	29.67	619.42	-	-	619.42
	12/13/2005	649.09	27.66	621.43	-	-	621.43
	01/06/2006	649.09	28.63	620.46	-	-	620.46
	02/09/2006	649.09	27.32	621.77	-	-	621.77
	02/22/2006	649.09	27.25	621.84	-	-	621.84
	03/16/2006	649.09	27.81	621.28	-	-	621.28
	04/12/2006	649.09	27.81	621.28	-	-	621.28
	05/17/2006	649.09	28.23	620.86	-	-	620.86
	06/15/2006	649.09	27.98	621.11	-	-	621.11
	07/10/2006	649.09	28.59	620.50	-	-	620.50
	08/18/2006	649.09	29.25	619.84	-	-	619.84
	10/24/2006	649.09	29.28	619.81	-	-	619.81
	01/04/2007	649.09	27.33	621.76	-	-	621.76
	02/01/2007	649.09	27.53	621.56	-	-	621.56
	05/07/2007	649.09	27.53	621.56	-	-	621.56
	05/30/2007	649.09	25.81	623.28	-	-	623.28
	07/30/2007	649.09	28.78	620.31	-	-	620.31
	10/07/2007	649.09	29.61	619.48	-	-	619.48
	01/07/2008	649.09	29.44	619.65	-	-	619.65
	02/26/2008	649.09	28.03	621.06	-	-	621.06
	07/01/2008	649.09	26.10	622.99	-	-	622.99

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
2140-MW07	01/08/2003	648.30	30.70	617.60	-	-	617.60
	09/08/2004	648.37	30.55	617.82	-	-	617.82
	09/22/2004	648.37	30.38	617.99	-	-	617.99
	10/08/2004	648.37	30.77	617.60	-	-	617.60
	10/29/2004	648.37	30.89	617.48	-	-	617.48
	11/04/2004	648.37	30.98	617.39	-	-	617.39
	11/08/2004	648.37	30.75	617.62	-	-	617.62
	12/01/2004	648.37	31.16	617.21	-	-	617.21
	12/15/2004	648.37	30.75	617.62	-	-	617.62
	01/05/2005	648.37	29.97	618.40	-	-	618.40
	01/14/2005	648.37	30.09	618.28	-	-	618.28
	02/03/2005	648.37	29.75	618.62	-	-	618.62
	02/15/2005	648.37	30.19	618.18	-	-	618.18
	03/08/2005	648.37	30.00	618.37	-	-	618.37
	03/22/2005	648.37	30.44	617.93	-	-	617.93
	04/11/2005	648.37	30.09	618.28	-	-	618.28
	04/25/2005	648.37	29.60	618.77	-	-	618.77
	05/03/2005	648.37	29.83	618.54	-	-	618.54
	05/25/2005	648.37	30.22	618.15	-	-	618.15
	06/02/2005	648.37	30.37	618.00	-	-	618.00
	06/20/2005	648.37	30.52	617.85	-	-	617.85
	06/29/2005	648.37	30.61	617.76	-	-	617.76
	07/07/2005	648.37	30.74	617.63	-	-	617.63
	07/27/2005	648.37	30.27	618.10	-	-	618.10
	08/05/2005	648.37	30.19	618.18	-	-	618.18
	08/15/2005	648.37	30.65	617.72	-	-	617.72
	09/06/2005	648.37	30.11	618.26	-	-	618.26
	09/23/2005	648.37	29.99	618.38	-	-	618.38
	10/07/2005	648.37	30.02	618.35	-	-	618.35
	10/25/2005	648.37	29.28	619.09	-	-	619.09
	12/13/2005	648.37	27.67	620.70	-	-	620.70
	01/06/2006	648.37	28.39	619.98	-	-	619.98
	02/09/2006	648.37	27.39	620.98	-	-	620.98
	02/22/2006	648.37	27.29	621.08	-	-	621.08
	03/16/2006	648.37	27.66	620.71	-	-	620.71
	04/12/2006	648.37	27.77	620.60	-	-	620.60
	05/17/2006	648.37	28.39	619.98	-	-	619.98
	06/15/2006	648.37	27.98	620.39	-	-	620.39
	07/10/2006	648.37	28.73	619.64	-	-	619.64
	08/18/2006	648.37	29.53	618.84	-	-	618.84
	10/24/2006	648.37	29.82	618.55	-	-	618.55
	01/04/2007	648.37	27.29	621.08	-	-	621.08
	02/01/2007	648.37	27.72	620.65	-	-	620.65
	05/07/2007	648.37	28.16	620.21	-	-	620.21
	05/30/2007	648.37	27.12	621.25	-	-	621.25
	07/30/2007	648.37	29.21	619.16	-	-	619.16
	10/07/2007	648.37	30.64	617.73	-	-	617.73
	01/07/2008	648.37	29.57	618.80	-	-	618.80
	02/26/2008	648.37	28.28	620.09	-	-	620.09
	07/01/2008	648.37	24.40	623.97	-	-	623.97



**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
2140-MW08	01/08/2003	637.74	28.20	609.54	-	-	609.54
	09/08/2004	637.93	28.63	609.30	-	-	609.30
	09/22/2004	637.93	28.46	609.47	-	-	609.47
	10/08/2004	637.93	28.76	609.17	-	-	609.17
	10/29/2004	637.93	28.85	609.08	-	-	609.08
	11/04/2004	637.93	28.88	609.05	-	-	609.05
	11/08/2004	637.93	28.73	609.20	-	-	609.20
	12/01/2004	637.93	28.83	609.10	-	-	609.10
	12/15/2004	637.93	28.25	609.68	-	-	609.68
	01/05/2005	637.93	27.91	610.02	-	-	610.02
	01/14/2005	637.93	27.90	610.03	-	-	610.03
	02/03/2005	637.93	27.76	610.17	-	-	610.17
	02/15/2005	637.93	28.02	609.91	-	-	609.91
	03/08/2005	637.93	28.01	609.92	-	-	609.92
	03/22/2005	637.93	28.12	609.81	-	-	609.81
	04/11/2005	637.93	27.53	610.40	-	-	610.40
	04/25/2005	637.93	27.54	610.39	-	-	610.39
	05/03/2005	637.93	27.67	610.26	-	-	610.26
	05/25/2005	637.93	28.01	609.92	-	-	609.92
	06/02/2005	637.93	28.12	609.81	-	-	609.81
	06/20/2005	637.93	28.37	609.56	-	-	609.56
	06/29/2005	637.93	28.46	609.47	-	-	609.47
	07/07/2005	637.93	28.60	609.33	-	-	609.33
	07/27/2005	637.93	28.54	609.39	-	-	609.39
	08/05/2005	637.93	28.57	609.36	-	-	609.36
	08/15/2005	637.93	28.88	609.05	-	-	609.05
	09/06/2005	637.93	28.49	609.44	-	-	609.44
	09/23/2005	637.93	28.34	609.59	-	-	609.59
	10/07/2005	637.93	28.23	609.70	-	-	609.70
	10/25/2005	637.93	27.44	610.49	-	-	610.49
	12/13/2005	637.93	26.65	611.28	-	-	611.28
	01/06/2006	637.93	27.31	610.62	-	-	610.62
	02/09/2006	637.93	26.53	611.40	-	-	611.40
	02/22/2006	637.93	26.63	611.30	-	-	611.30
	03/16/2006	637.93	26.89	611.04	-	-	611.04
	04/12/2006	637.93	NR	-	NR	-	-
	05/17/2006	637.93	27.24	610.69	-	-	610.69
	06/15/2006	637.93	27.64	610.29	-	-	610.29
	07/10/2006	637.93	27.99	609.94	-	-	609.94
	08/18/2006	637.93	28.58	609.35	-	-	609.35
	10/24/2006	637.93	28.44	609.49	-	-	609.49
	01/04/2007	637.93	27.00	610.93	-	-	610.93
	02/01/2007	637.93	27.48	610.45	-	-	610.45
	05/07/2007	637.93	26.85	611.08	-	-	611.08
	05/30/2007	637.93	24.02	613.91	-	-	613.91
	07/30/2007	637.93	28.35	609.58	-	-	609.58
	10/07/2007	637.93	29.11	608.82	-	-	608.82
	01/07/2008	637.93	28.13	609.80	-	-	609.80
	02/26/2008	637.93	27.14	610.79	-	-	610.79
	07/01/2008	637.93	24.75	613.18	-	-	613.18

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>	
2140-MW09	01/08/2003	635.73	25.79	609.94	-	-	609.94	
	09/08/2004	635.81	25.96	609.85	-	-	609.85	
	09/22/2004	635.81	25.82	609.99	-	-	609.99	
	10/08/2004	635.81	26.12	609.69	-	-	609.69	
	10/29/2004	635.81	26.18	609.63	-	-	609.63	
	11/04/2004	635.81	26.22	609.59	-	-	609.59	
	11/08/2004	635.81	26.03	609.78	-	-	609.78	
	12/01/2004	635.81	26.16	609.65	-	-	609.65	
	12/15/2004	635.81	25.62	610.19	-	-	610.19	
	01/05/2005	635.81	25.24	610.57	-	-	610.57	
	01/14/2005	635.81	25.24	610.57	-	-	610.57	
	02/03/2005	635.81	25.10	610.71	-	-	610.71	
	02/15/2005	635.81	25.35	610.46	-	-	610.46	
	03/08/2005	635.81	25.27	610.54	-	-	610.54	
	03/22/2005	635.81	25.48	610.33	-	-	610.33	
	04/11/2005	635.81	24.89	610.92	-	-	610.92	
	04/25/2005	635.81	24.83	610.98	-	-	610.98	
	05/03/2005	635.81	25.07	610.74	-	-	610.74	
	05/25/2005	635.81	25.46	610.35	-	-	610.35	
	06/02/2005	635.81	25.55	610.26	-	-	610.26	
	06/20/2005	635.81	25.78	610.03	-	-	610.03	
	06/29/2005	635.81	25.85	609.96	-	-	609.96	
	07/07/2005	635.81	25.98	609.83	-	-	609.83	
	07/27/2005	635.81	25.80	610.01	-	-	610.01	
	08/05/2005	635.81	25.81	610.00	-	-	610.00	
	08/15/2005	635.81	26.21	609.60	-	-	609.60	
	09/06/2005	635.81	25.11	610.70	-	-	610.70	
	09/23/2005	635.81	25.59	610.22	-	-	610.22	
	10/07/2005	635.81	25.59	610.22	-	-	610.22	
	10/25/2005	635.81	24.86	610.95	-	-	610.95	
	12/13/2005	635.81	24.61	611.20	-	-	611.20	
	01/06/2006	635.81		NR	-	NR	-	
	02/09/2006	635.81		23.91	611.90	-	-	611.90
	02/22/2006	635.81		23.95	611.86	-	-	611.86
	03/16/2006	635.81		24.00	611.81	-	-	611.81
	04/12/2006	635.81		24.22	611.59	-	-	611.59
	05/17/2006	635.81		24.63	611.18	-	-	611.18
	06/15/2006	635.81		24.75	611.06	-	-	611.06
	07/10/2006	635.81		25.13	610.68	-	-	610.68
	08/18/2006	635.81		25.59	610.22	-	-	610.22
	10/24/2006	635.81		25.57	610.24	-	-	610.24
	01/04/2007	635.81		24.09	611.72	-	-	611.72
	02/01/2007	635.81		24.39	611.42	-	-	611.42
05/07/2007	635.81		24.27	611.54	-	-	611.54	
05/30/2007	635.81		23.22	612.59	-	-	612.59	
07/30/2007	635.81		25.39	610.42	-	-	610.42	
10/07/2007	635.81		25.72	610.09	-	-	610.09	
01/07/2008	635.81		25.18	610.63	-	-	610.63	
02/26/2008	635.81		24.23	611.58	-	-	611.58	
07/01/2008	635.81		25.90	609.91	-	-	609.91	

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
2140-MW10	01/08/2003	635.03	NR	-	NR	-	-
	09/08/2004	635.03	24.13	610.90	-	-	610.90
	09/22/2004	635.03	24.02	611.01	-	-	611.01
	10/08/2004	635.03	24.33	610.70	-	-	610.70
	10/29/2004	635.03	24.55	610.48	-	-	610.48
	11/04/2004	635.03	24.68	610.35	-	-	610.35
	11/08/2004	635.03	24.33	610.70	-	-	610.70
	12/01/2004	635.03	24.81	610.22	-	-	610.22
	12/15/2004	635.03	24.12	610.91	-	-	610.91
	01/05/2005	635.03	23.71	611.32	-	-	611.32
	01/14/2005	635.03	23.72	611.31	-	-	611.31
	02/03/2005	635.03	23.60	611.43	-	-	611.43
	02/15/2005	635.03	23.82	611.21	-	-	611.21
	03/08/2005	635.03	23.65	611.38	-	-	611.38
	03/22/2005	635.03	23.92	611.11	-	-	611.11
	04/11/2005	635.03	23.43	611.60	-	-	611.60
	04/25/2005	635.03	23.40	611.63	-	-	611.63
	05/03/2005	635.03	23.59	611.44	-	-	611.44
	05/25/2005	635.03	23.88	611.15	-	-	611.15
	06/02/2005	635.03	23.97	611.06	-	-	611.06
	06/20/2005	635.03	24.15	610.88	-	-	610.88
	06/29/2005	635.03	24.21	610.82	-	-	610.82
	07/07/2005	635.03	24.39	610.64	-	-	610.64
	07/27/2005	635.03	24.08	610.95	-	-	610.95
	08/05/2005	635.03	24.03	611.00	-	-	611.00
	08/15/2005	635.03	24.74	610.29	-	-	610.29
	09/06/2005	635.03	24.11	610.92	-	-	610.92
	09/23/2005	635.03	24.03	611.00	-	-	611.00
	10/07/2005	635.03	24.04	610.99	-	-	610.99
	10/25/2005	635.03	23.43	611.60	-	-	611.60
	12/13/2005	635.03	22.69	612.34	-	-	612.34
	01/06/2006	635.03	23.17	611.86	-	-	611.86
	02/09/2006	635.03	22.50	612.53	-	-	612.53
	02/22/2006	635.03	22.56	612.47	-	-	612.47
	03/16/2006	635.03	22.64	612.39	-	-	612.39
	04/12/2006	635.03	22.87	612.16	-	-	612.16
	05/17/2006	635.03	23.19	611.84	-	-	611.84
	06/15/2006	635.03	23.30	611.73	-	-	611.73
	07/10/2006	635.03	23.75	611.28	-	-	611.28
	08/18/2006	635.03	24.37	610.66	-	-	610.66
	10/24/2006	635.03	24.33	610.70	-	-	610.70
01/04/2007	635.03	22.68	612.35	-	-	612.35	
02/01/2007	635.03	22.38	612.65	-	-	612.65	
05/07/2007	635.03	22.78	612.25	-	-	612.25	
05/30/2007	635.03	22.82	612.21	-	-	612.21	
07/30/2007	635.03	24.16	610.87	-	-	610.87	
10/07/2007	635.03	24.53	610.50	-	-	610.50	
01/07/2008	635.03	23.98	611.05	-	-	611.05	
02/26/2008	635.03	NR	-	-	NR	-	
07/01/2008	635.03	25.05	609.98	-	-	609.98	

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
2140-MW11	01/08/2003	637.84	25.00	612.84	-	-	612.84
	09/08/2004	637.90	24.82	613.08	-	-	613.08
	09/22/2004	637.90	24.64	613.26	-	-	613.26
	10/08/2004	637.90	25.08	612.82	-	-	612.82
	10/29/2004	637.90	25.20	612.70	-	-	612.70
	11/04/2004	637.90	25.25	612.65	-	-	612.65
	11/08/2004	637.90	25.04	612.86	-	-	612.86
	12/01/2004	637.90	25.31	612.59	-	-	612.59
	12/15/2004	637.90	24.85	613.05	-	-	613.05
	01/05/2005	637.90	24.41	613.49	-	-	613.49
	01/14/2005	637.90	24.39	613.51	-	-	613.51
	02/03/2005	637.90	24.19	613.71	-	-	613.71
	02/15/2005	637.90	24.45	613.45	-	-	613.45
	03/08/2005	637.90	24.35	613.55	-	-	613.55
	03/22/2005	637.90	24.61	613.29	-	-	613.29
	04/11/2005	637.90	24.19	613.71	-	-	613.71
	04/25/2005	637.90	24.09	613.81	-	-	613.81
	05/03/2005	637.90	24.23	613.67	-	-	613.67
	05/25/2005	637.90	24.57	613.33	-	-	613.33
	06/02/2005	637.90	24.66	613.24	-	-	613.24
	06/20/2005	637.90	24.83	613.07	-	-	613.07
	06/29/2005	637.90	24.90	613.00	-	-	613.00
	07/07/2005	637.90	25.04	612.86	-	-	612.86
	07/27/2005	637.90	24.76	613.14	-	-	613.14
	08/05/2005	637.90	24.76	613.14	-	-	613.14
	08/15/2005	637.90	25.22	612.68	-	-	612.68
	09/06/2005	637.90	24.59	613.31	-	-	613.31
	09/23/2005	637.90	24.53	613.37	-	-	613.37
	10/07/2005	637.90	24.52	613.38	-	-	613.38
	10/25/2005	637.90	23.88	614.02	-	-	614.02
	12/13/2005	637.90	22.63	615.27	-	-	615.27
	01/06/2006	637.90	23.22	614.68	-	-	614.68
	02/09/2006	637.90	22.20	615.70	-	-	615.70
	02/22/2006	637.90	22.22	615.68	-	-	615.68
	03/16/2006	637.90	22.36	615.54	-	-	615.54
	04/12/2006	637.90	22.62	615.28	-	-	615.28
	05/17/2006	637.90	23.15	614.75	-	-	614.75
	06/15/2006	637.90	23.10	614.80	-	-	614.80
	07/10/2006	637.90	23.60	614.30	-	-	614.30
	08/18/2006	637.90	24.12	613.78	-	-	613.78
	10/24/2006	637.90	24.08	613.82	-	-	613.82
	01/04/2007	637.90	22.45	615.45	-	-	615.45
	02/01/2007	637.90	22.58	615.32	-	-	615.32
	05/07/2007	637.90	22.45	615.45	-	-	615.45
	05/30/2007	637.90	21.71	616.19	-	-	616.19
	07/30/2007	637.90	23.70	614.20	-	-	614.20
	10/07/2007	637.90	24.18	613.72	-	-	613.72
	01/07/2008	637.90	23.85	614.05	-	-	614.05
	02/26/2008	637.90	22.30	615.60	-	-	615.60
	07/01/2008	637.90	25.15	612.75	-	-	612.75

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	09/18/2008	637.90	22.92	614.98	-	-	614.98
	10/23/2008	637.90	23.22	614.68	-	-	614.68
	12/30/2008	637.90	20.53	617.37	-	-	617.37
	01/28/2009	637.90	21.15	616.75	-	-	616.75
	02/24/2009	637.90	21.56	616.34	-	-	616.34
	03/27/2009	637.90	21.60	616.30	-	-	616.30
	04/28/2009	637.90	21.98	615.92	-	-	615.92
	05/20/2009	637.90	21.90	616.00	-	-	616.00
	06/25/2009	637.90	22.02	615.88	-	-	615.88
	07/20/2009	637.90	22.29	615.61	-	-	615.61
	08/25/2009	637.90	22.78	615.12	-	-	615.12
	09/16/2009	637.90	23.21	614.69	-	-	614.69
	10/13/2009	646.30	23.51	622.79	-	-	622.79
	11/10/2009	646.30	23.21	623.09	-	-	623.09
	12/14/2009	646.30	23.67	622.63	-	-	622.63
	01/11/2010	646.30	24.04	622.26	-	-	622.26
	02/10/2010	646.30	23.81	622.49	-	-	622.49
	03/10/2010	646.30	24.17	622.13	-	-	622.13
	04/14/2010	646.30	23.67	622.63	-	-	622.63
	05/12/2010	637.84	23.92	613.92	-	-	613.92
	06/17/2010	637.84	23.88	613.96	-	-	613.96
	07/14/2010	637.84	23.96	613.88	-	-	613.88
	08/09/2010	637.84	23.71	614.13	-	-	614.13
	09/16/2010	637.84	23.61	614.23	-	-	614.23
	10/13/2010	637.84	22.88	614.96	-	-	614.96
	11/16/2010	637.84	22.97	614.87	-	-	614.87
	12/16/2010	637.84	NR	-	NR	-	-
	01/13/2011	637.84	NR	-	NR	-	-
	03/14/2011	637.84	NR	-	NR	-	-
	04/12/2011	637.84	NR	-	NR	-	-
	05/19/2011	637.84	21.49	616.35	-	-	616.35
	06/20/2011	637.84	22.02	615.82	-	-	615.82
	07/13/2011	637.84	22.31	615.53	-	-	615.53
2140-MW12	01/08/2003	629.03	20.68	608.35	-	-	608.35
	09/08/2004	629.03	21.13	607.90	-	-	607.90
	09/15/2004	629.03	8.94	620.09	-	-	620.09
	09/22/2004	629.03	20.77	608.26	-	-	608.26
	10/08/2004	629.03	21.13	607.90	-	-	607.90
	10/29/2004	629.03	21.23	607.80	-	-	607.80
	11/04/2004	629.03	21.27	607.76	-	-	607.76
	11/08/2004	629.03	21.13	607.90	-	-	607.90
	12/01/2004	629.03	21.15	607.88	-	-	607.88
	12/15/2004	629.03	20.38	608.65	-	-	608.65
	01/05/2005	629.03	19.88	609.15	-	-	609.15
	01/14/2005	629.03	19.78	609.25	-	-	609.25
	02/03/2005	629.03	19.76	609.27	-	-	609.27
	02/15/2005	629.03	19.95	609.08	-	-	609.08
	03/08/2005	629.03	19.98	609.05	-	-	609.05
	03/22/2005	629.03	20.11	608.92	-	-	608.92

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	04/11/2005	629.03	19.27	609.76	-	-	609.76
	04/18/2005	629.03	19.32	609.71	-	-	609.71
	04/25/2005	629.03	19.48	609.55	-	-	609.55
	05/03/2005	629.03	19.61	609.42	-	-	609.42
	05/25/2005	629.03	20.01	609.02	-	-	609.02
	04/27/2006	629.03	19.31	609.72	-	-	609.72
	10/03/2006	629.03	21.10	607.93	-	-	607.93
	06/02/2005	629.03	19.89	609.14	-	-	609.14
	06/20/2005	629.03	20.58	608.45	-	-	608.45
	06/29/2005	629.03	20.74	608.29	-	-	608.29
	07/07/2005	629.03	20.96	608.07	-	-	608.07
	07/27/2005	629.03	21.50	607.53	-	-	607.53
	08/05/2005	629.03	21.12	607.91	-	-	607.91
	08/15/2005	629.03	21.37	607.66	-	-	607.66
	09/06/2005	629.03	21.14	607.89	-	-	607.89
	09/23/2005	629.03	20.83	608.20	-	-	608.20
	10/07/2005	629.03	20.42	608.61	-	-	608.61
	10/25/2005	629.03	19.39	609.64	-	-	609.64
	12/13/2005	629.03	18.69	610.34	-	-	610.34
	01/06/2006	629.03	19.35	609.68	-	-	609.68
	02/09/2006	629.03	18.52	610.51	-	-	610.51
	02/22/2006	629.03	18.58	610.45	-	-	610.45
	03/16/2006	629.03	18.54	610.49	-	-	610.49
	04/12/2006	629.03	19.99	609.04	-	-	609.04
	04/27/2006	629.03	19.31	609.72	-	-	609.72
	05/17/2006	629.03	20.16	608.87	-	-	608.87
	06/15/2006	629.03	19.95	609.08	-	-	609.08
	07/10/2006	629.03	20.20	608.83	-	-	608.83
	08/18/2006	629.03	21.07	607.96	-	-	607.96
	10/03/2006	629.03	21.10	607.93	-	-	607.93
	10/24/2006	629.03	20.73	608.30	-	-	608.30
	01/04/2007	629.03	19.19	609.84	-	-	609.84
	02/01/2007	629.03	19.26	609.77	-	-	609.77
	05/07/2007	629.03	18.72	610.31	-	-	610.31
	05/30/2007	629.03	19.11	609.92	-	-	609.92
	07/30/2007	629.03	20.01	609.02	-	-	609.02
	10/07/2007	629.03	21.87	607.16	-	-	607.16
	01/07/2008	629.03	20.12	608.91	-	-	608.91
	02/26/2008	629.03	19.14	609.89	-	-	609.89
	05/23/2007	629.03	19.09	609.94	-	-	609.94
	07/01/2008	629.03	24.90	604.13	-	-	604.13
2140-MW13	09/15/2004	NR	20.72	-	-	-	-
	04/18/2005	NR	7.55	-	-	-	-
	04/27/2006	NR	7.58	-	-	-	-
	10/03/2006	NR	9.30	-	-	-	-
	05/23/2007	NR	7.39	-	-	-	-
	07/01/2008	NR	24.05	-	-	-	-

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
2140-MW14	09/15/2004	NR	10.06	-	-	-	-
	04/18/2005	NR	8.63	-	-	-	-
	04/27/2006	NR	8.70	-	-	-	-
	10/03/2006	NR	10.39	-	-	-	-
	05/23/2007	NR	8.53	-	-	-	-
	07/01/2008	NR	21.65	-	-	-	-
2140-MW15	09/15/2004	NR	10.94	-	-	-	-
	04/18/2005	NR	9.48	-	-	-	-
	04/27/2006	NR	9.59	-	-	-	-
	10/03/2006	NR	20.25	-	-	-	-
	05/23/2007	NR	9.41	-	-	-	-
	07/01/2008	NR	21.60	-	-	-	-
2140-MW16	09/15/2004	NR	7.68	-	-	-	-
	04/18/2005	NR	6.48	-	-	-	-
	04/27/2006	NR	6.51	-	-	-	-
	10/03/2006	NR	7.95	-	-	-	-
	05/23/2007	NR	7.60	-	-	-	-
	07/01/2008	NR	21.60	-	-	-	-
2140-MW17	09/15/2004	NR	7.80	-	-	-	-
	04/18/2005	NR	6.57	-	-	-	-
	04/27/2006	NR	6.65	-	-	-	-
	10/03/2006	NR	8.05	-	-	-	-
	05/23/2007	NR	6.55	-	-	-	-
2140-MW18	09/15/2004	NR	7.50	-	-	-	-
	04/18/2005	NR	6.16	-	-	-	-
	04/27/2006	NR	6.24	-	-	-	-
	10/03/2006	NR	7.61	-	-	-	-
	05/23/2007	NR	6.15	-	-	-	-
2140-MW19	09/15/2004	NR	8.82	-	-	-	-
	04/18/2005	NR	7.67	-	-	-	-
	04/27/2006	NR	7.66	-	-	-	-
	10/03/2006	NR	9.08	-	-	-	-
	05/23/2007	NR	6.84	-	-	-	-
2140-MW20	09/15/2004	NR	7.45	-	-	-	-
	04/18/2005	NR	6.22	-	-	-	-
	04/27/2006	NR	6.10	-	-	-	-
	10/03/2006	NR	7.80	-	-	-	-
	05/23/2007	NR	6.84	-	-	-	-
2140-MW21	09/15/2004	NR	6.90	-	-	-	-
	04/18/2005	NR	6.65	-	-	-	-
	04/27/2006	NR	6.29	-	-	-	-
	10/03/2006	NR	6.60	-	-	-	-
	05/23/2007	NR	6.67	-	-	-	-

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
2140-MW26	09/15/2004	NR	11.60	-	-	-	-
	04/18/2005	NR	10.56	-	-	-	-
	04/27/2006	NR	10.56	-	-	-	-
	10/03/2006	NR	11.83	-	-	-	-
	05/23/2007	NR	10.52	-	-	-	-
2140-MW27	09/15/2004	NR	10.14	-	-	-	-
	04/18/2005	NR	9.11	-	-	-	-
	04/27/2006	NR	9.14	-	-	-	-
	10/03/2006	NR	10.35	-	-	-	-
	05/23/2007	NR	9.08	-	-	-	-
2140-MW28	09/15/2004	NR	9.26	-	-	-	-
	04/18/2005	NR	8.23	-	-	-	-
	04/27/2006	NR	8.25	-	-	-	-
	10/03/2006	NR	9.40	-	-	-	-
	05/23/2007	NR	8.19	-	-	-	-
2140-MW29	09/15/2004	NR	5.00	-	-	-	-
	04/18/2005	NR	4.97	-	-	-	-
	04/27/2006	NR	4.39	-	-	-	-
	10/03/2006	NR	4.75	-	-	-	-
	05/23/2007	NR	4.56	-	-	-	-
2140-MW30	09/15/2004	NR	5.98	-	-	-	-
	04/18/2005	NR	5.93	-	-	-	-
	04/27/2006	NR	5.91	-	-	-	-
	10/03/2006	NR	5.97	-	-	-	-
	05/23/2007	NR	6.12	-	-	-	-
2140-MW31	09/15/2004	NR	6.88	-	-	-	-
	04/18/2005	NR	6.72	-	-	-	-
	04/27/2006	NR	6.55	-	-	-	-
	10/03/2006	NR	6.74	-	-	-	-
	05/23/2007	NR	7.01	-	-	-	-
2140-MW32	09/15/2004	NR	15.92	-	-	-	-
	04/18/2005	NR	7.01	-	-	-	-
	04/27/2006	NR	7.65	-	-	-	-
	10/03/2006	NR	15.90	-	-	-	-
	05/23/2007	NR	7.94	-	-	-	-
2140-MW34	01/08/2003	632.64	23.99	608.65	-	-	608.65
	09/08/2004	632.64	24.43	608.21	-	-	608.21
	09/22/2004	632.64	24.12	608.52	-	-	608.52
	10/08/2004	632.64	24.45	608.19	-	-	608.19
	10/29/2004	632.64	24.57	608.07	-	-	608.07
	11/04/2004	632.64	24.61	608.03	-	-	608.03
	11/08/2004	632.64	24.51	608.13	-	-	608.13
	12/01/2004	632.64	24.05	608.59	-	-	608.59



**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	12/15/2004	632.64	23.81	608.83	-	-	608.83
	01/05/2005	632.64	23.30	609.34	-	-	609.34
	01/14/2005	632.64	23.22	609.42	-	-	609.42
	02/03/2005	632.64	23.14	609.50	-	-	609.50
	02/15/2005	632.64	23.35	609.29	-	-	609.29
	03/08/2005	632.64	23.40	609.24	-	-	609.24
	03/22/2005	632.64	NR	-	NR	-	-
	04/11/2005	632.64	22.73	609.91	-	-	609.91
	04/25/2005	632.64	22.87	609.77	-	-	609.77
	05/03/2005	632.64	23.03	609.61	-	-	609.61
	05/25/2005	632.64	23.04	609.60	-	-	609.60
	06/02/2005	632.64	23.59	609.05	-	-	609.05
	06/20/2005	632.64	23.94	608.70	-	-	608.70
	06/29/2005	632.64	24.06	608.58	-	-	608.58
	07/07/2005	632.64	24.27	608.37	-	-	608.37
	07/27/2005	632.64	24.34	608.30	-	-	608.30
	08/05/2005	632.64	24.41	608.23	-	-	608.23
	08/15/2005	632.64	24.65	607.99	-	-	607.99
	09/06/2005	632.64	24.43	608.21	-	-	608.21
	09/23/2005	632.64	24.16	608.48	-	-	608.48
	10/07/2005	632.64	23.79	608.85	-	-	608.85
	10/25/2005	632.64	22.79	609.85	-	-	609.85
	12/13/2005	632.64	NR	-	NR	-	-
	01/06/2006	632.64	NR	-	NR	-	-
	02/09/2006	632.64	21.85	610.79	-	-	610.79
	02/22/2006	632.64	NR	-	NR	-	-
	03/16/2006	632.64	21.95	610.69	-	-	610.69
	04/12/2006	632.64	22.48	610.16	-	-	610.16
	05/17/2006	632.64	22.96	609.68	-	-	609.68
	06/15/2006	632.64	23.18	609.46	-	-	609.46
	07/10/2006	632.64	23.54	609.10	-	-	609.10
	08/18/2006	632.64	24.38	608.26	-	-	608.26
	10/24/2006	632.64	24.81	607.83	-	-	607.83
	01/04/2007	632.64	22.57	610.07	-	-	610.07
	02/01/2007	632.64	22.61	610.03	-	-	610.03
	05/07/2007	632.64	22.11	610.53	-	-	610.53
	05/30/2007	632.64	24.78	607.86	-	-	607.86
	07/30/2007	632.64	24.09	608.55	-	-	608.55
	10/07/2007	632.64	24.89	607.75	-	-	607.75
	01/07/2008	632.64	23.56	609.08	-	-	609.08
	02/26/2008	632.64	NR	-	NR	-	-
2140-MW35	01/08/2003	633.25	24.51	608.74	-	-	608.74
	09/08/2004	633.25	24.93	608.32	-	-	608.32
	09/22/2004	633.25	24.65	608.60	-	-	608.60
	10/08/2004	633.25	24.99	608.26	-	-	608.26
	10/29/2004	633.25	25.27	607.98	-	-	607.98
	11/04/2004	633.25	25.16	608.09	-	-	608.09
	11/08/2004	633.25	25.05	608.20	-	-	608.20
	12/01/2004	633.25	24.49	608.76	-	-	608.76

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	12/15/2004	633.25	24.34	608.91	-	-	608.91
	01/05/2005	633.25	23.85	609.40	-	-	609.40
	01/14/2005	633.25	23.76	609.49	-	-	609.49
	02/03/2005	633.25	23.63	609.62	-	-	609.62
	02/15/2005	633.25	23.89	609.36	-	-	609.36
	03/08/2005	633.25	23.91	609.34	-	-	609.34
	03/22/2005	633.25	24.05	609.20	-	-	609.20
	04/11/2005	633.25	23.31	609.94	-	-	609.94
	04/25/2005	633.25	23.34	609.91	-	-	609.91
	05/03/2005	633.25	23.53	609.72	-	-	609.72
	05/25/2005	633.25	23.92	609.33	-	-	609.33
	06/02/2005	633.25	24.11	609.14	-	-	609.14
	06/20/2005	633.25	24.46	608.79	-	-	608.79
	06/29/2005	633.25	24.58	608.67	-	-	608.67
	07/07/2005	633.25	24.80	608.45	-	-	608.45
	07/27/2005	633.25	24.81	608.44	-	-	608.44
	08/05/2005	633.25	24.86	608.39	-	-	608.39
	08/15/2005	633.25	25.17	608.08	-	-	608.08
	09/06/2005	633.25	24.86	608.39	-	-	608.39
	09/23/2005	633.25	24.60	608.65	-	-	608.65
	10/07/2005	633.25	24.31	608.94	-	-	608.94
	10/25/2005	633.25	23.31	609.94	-	-	609.94
	12/13/2005	633.25	22.50	610.75	-	-	610.75
	01/06/2006	633.25	23.22	610.03	-	-	610.03
	02/09/2006	633.25	22.32	610.93	-	-	610.93
	02/22/2006	633.25	22.37	610.88	-	-	610.88
	03/16/2006	633.25	22.44	610.81	-	-	610.81
	04/12/2006	633.25	22.96	610.29	-	-	610.29
	05/17/2006	633.25	23.42	609.83	-	-	609.83
	06/15/2006	633.25	23.75	609.50	-	-	609.50
	07/10/2006	633.25	24.02	609.23	-	-	609.23
	08/18/2006	633.25	24.89	608.36	-	-	608.36
	10/24/2006	633.25	24.63	608.62	-	-	608.62
	01/04/2007	633.25	23.09	610.16	-	-	610.16
	02/01/2007	633.25	23.11	610.14	-	-	610.14
	05/07/2007	633.25	22.56	610.69	-	-	610.69
	05/30/2007	633.25	22.78	610.47	-	-	610.47
	07/30/2007	633.25	24.54	608.71	-	-	608.71
	10/07/2007	633.25	25.53	607.72	-	-	607.72
	01/07/2008	633.25	24.11	609.14	-	-	609.14
	02/26/2008	633.25	23.04	610.21	-	-	610.21
	09/18/2008	633.25	23.85	609.40	-	-	609.40
	10/23/2008	633.25	24.07	609.18	-	-	609.18
	12/30/2008	633.25	21.60	611.65	21.59	0.01	611.66
	01/28/2009	633.25	22.30	610.95	-	-	610.95
	02/24/2009	633.25	22.28	610.97	-	-	610.97
	03/27/2009	633.25	21.94	611.31	-	-	611.31
	04/28/2009	633.25	22.32	610.93	-	-	610.93
	05/20/2009	633.25	22.38	610.87	-	-	610.87
	06/25/2009	633.25	22.83	610.42	-	-	610.42

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	07/20/2009	633.25	23.35	609.90	-	-	609.90
	08/25/2009	633.25	24.00	609.25	-	-	609.25
	09/16/2009	633.25	24.43	608.82	-	-	608.82
	10/13/2009	646.30	24.52	621.78	-	-	621.78
	11/10/2009	646.30	24.31	621.99	-	-	621.99
	12/14/2009	646.30	24.26	622.04	-	-	622.04
	01/11/2010	646.30	24.34	621.96	-	-	621.96
	02/10/2010	646.30	23.78	622.52	-	-	622.52
	03/10/2010	646.30	24.18	622.12	-	-	622.12
	04/14/2010	646.30	23.61	622.69	-	-	622.69
	05/12/2010	633.25	24.02	609.23	-	-	609.23
	06/17/2010	633.25	24.56	608.69	-	-	608.69
	07/14/2010	633.25	24.73	608.52	-	-	608.52
	08/09/2010	633.25	24.37	608.88	-	-	608.88
	09/16/2010	633.25	24.78	608.47	-	-	608.47
	10/13/2010	633.25	23.47	609.78	-	-	609.78
	11/16/2010	633.25	23.68	609.57	-	-	609.57
	12/16/2010	633.25	NR	-	NR	-	-
	01/13/2011	633.25	NR	-	NR	-	-
	03/14/2011	633.25	NR	-	NR	-	-
	04/12/2011	633.25	NR	-	NR	-	-
	05/19/2011	633.25	21.81	611.44	-	-	611.44
	06/20/2011	633.25	22.72	610.53	-	-	610.53
	07/13/2011	633.25	23.27	609.98	-	-	609.98
2140-MW36	01/08/2003	640.57	25.82	614.75	-	-	614.75
	09/08/2004	640.57	25.64	614.93	-	-	614.93
	09/22/2004	640.57	25.53	615.04	-	-	615.04
	10/08/2004	640.57	25.91	614.66	-	-	614.66
	10/29/2004	640.57	26.09	614.48	-	-	614.48
	11/04/2004	640.57	26.16	614.41	-	-	614.41
	11/08/2004	640.57	25.90	614.67	-	-	614.67
	12/01/2004	640.57	26.15	614.42	-	-	614.42
	12/15/2004	640.57	25.76	614.81	-	-	614.81
	01/05/2005	640.57	25.36	615.21	-	-	615.21
	01/14/2005	640.57	25.50	615.07	-	-	615.07
	02/03/2005	640.57	25.23	615.34	-	-	615.34
	02/15/2005	640.57	25.52	615.05	-	-	615.05
	03/08/2005	640.57	25.16	615.41	-	-	615.41
	03/22/2005	640.57	25.71	614.86	-	-	614.86
	04/11/2005	640.57	25.47	615.10	-	-	615.10
	04/25/2005	640.57	24.84	615.73	-	-	615.73
	05/03/2005	640.57	25.22	615.35	-	-	615.35
	05/25/2005	640.57	25.55	615.02	-	-	615.02
	06/02/2005	640.57	25.54	615.03	-	-	615.03
	06/20/2005	640.57	25.61	614.96	-	-	614.96
	06/29/2005	640.57	25.67	614.90	-	-	614.90
	07/07/2005	640.57	25.76	614.81	-	-	614.81
	07/27/2005	640.57	25.42	615.15	-	-	615.15
	08/05/2005	640.57	25.44	615.13	-	-	615.13

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	08/15/2005	640.57	25.79	614.78	-	-	614.78
	09/06/2005	640.57	25.23	615.34	-	-	615.34
	09/23/2005	640.57	25.13	615.44	-	-	615.44
	10/07/2005	640.57	25.39	615.18	-	-	615.18
	10/25/2005	640.57	24.79	615.78	-	-	615.78
	12/13/2005	640.57	22.95	617.62	-	-	617.62
	01/06/2006	640.57	24.17	616.40	-	-	616.40
	02/09/2006	640.57	22.76	617.81	-	-	617.81
	02/22/2006	640.57	22.74	617.83	-	-	617.83
	03/16/2006	640.57	23.21	617.36	-	-	617.36
	04/12/2006	640.57	23.49	617.08	-	-	617.08
	05/17/2006	640.57	23.95	616.62	-	-	616.62
	06/15/2006	640.57	23.98	616.59	-	-	616.59
	07/10/2006	640.57	24.57	616.00	-	-	616.00
	08/18/2006	640.57	25.14	615.43	-	-	615.43
	10/24/2006	640.57	25.13	615.44	-	-	615.44
	01/04/2007	640.57	23.05	617.52	-	-	617.52
	02/01/2007	640.57	23.53	617.04	-	-	617.04
	05/07/2007	640.57	23.61	616.96	-	-	616.96
	05/30/2007	640.57	22.38	618.19	-	-	618.19
	07/30/2007	640.57	24.63	615.94	-	-	615.94
	10/07/2007	640.57	25.98	614.59	-	-	614.59
	01/07/2008	640.57	24.69	615.88	-	-	615.88
	02/26/2008	640.57	23.32	617.25	-	-	617.25
2140-MW37	01/08/2003	646.42	NR	-	NR	-	-
	09/08/2004	646.42	27.22	619.20	-	-	619.20
	09/22/2004	646.42	27.13	619.29	-	-	619.29
	10/08/2004	646.42	27.52	618.90	-	-	618.90
	10/29/2004	646.42	27.68	618.74	-	-	618.74
	11/04/2004	646.42	27.76	618.66	-	-	618.66
	11/08/2004	646.42	27.61	618.81	-	-	618.81
	12/01/2004	646.42	27.99	618.43	-	-	618.43
	12/15/2004	646.42	27.40	619.02	-	-	619.02
	01/05/2005	646.42	26.88	619.54	-	-	619.54
	01/14/2005	646.42	26.92	619.50	-	-	619.50
	02/03/2005	646.42	26.55	619.87	-	-	619.87
	02/15/2005	646.42	NR	-	NR	-	-
	03/08/2005	646.42	NR	-	NR	-	-
	03/22/2005	646.42	27.28	619.14	-	-	619.14
	04/11/2005	646.42	26.82	619.60	-	-	619.60
	04/25/2005	646.42	26.24	620.18	-	-	620.18
	05/03/2005	646.42	26.64	619.78	-	-	619.78
	05/25/2005	646.42	27.07	619.35	-	-	619.35
	06/02/2005	646.42	27.23	619.19	-	-	619.19
	06/20/2005	646.42	27.31	619.11	-	-	619.11
	06/29/2005	646.42	27.40	619.02	-	-	619.02
	07/07/2005	646.42	27.54	618.88	-	-	618.88
	07/27/2005	646.42	26.82	619.60	-	-	619.60
	08/05/2005	646.42	26.79	619.63	-	-	619.63

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	08/15/2005	646.42	27.73	618.69	-	-	618.69
	09/06/2005	646.42	26.71	619.71	-	-	619.71
	09/23/2005	646.42	26.64	619.78	-	-	619.78
	10/07/2005	646.42	27.04	619.38	-	-	619.38
	10/25/2005	646.42	26.29	620.13	-	-	620.13
	12/13/2005	646.42	24.29	622.13	-	-	622.13
	01/06/2006	646.42	25.10	621.32	-	-	621.32
	02/09/2006	646.42	NR	-	NR	-	-
	02/22/2006	646.42	23.87	622.55	-	-	622.55
	03/16/2006	646.42	24.18	622.24	-	-	622.24
	04/12/2006	646.42	24.66	621.76	-	-	621.76
	05/17/2006	646.42	24.81	621.61	-	-	621.61
	06/15/2006	646.42	24.86	621.56	-	-	621.56
	07/10/2006	646.42	25.15	621.27	-	-	621.27
	08/18/2006	646.42	25.71	620.71	-	-	620.71
	10/24/2006	646.42	25.94	620.48	-	-	620.48
	01/04/2007	646.42	24.12	622.30	-	-	622.30
	02/01/2007	646.42	24.13	622.29	-	-	622.29
	05/07/2007	646.42	23.91	622.51	-	-	622.51
	05/30/2007	646.42	25.25	621.17	-	-	621.17
	07/30/2007	646.42	25.31	621.11	-	-	621.11
	10/07/2007	646.42	26.11	620.31	-	-	620.31
	01/07/2008	646.42	26.02	620.40	-	-	620.40
	02/26/2008	646.42	24.75	621.67	-	-	621.67
2140-PZ01	01/08/2003	637.37	26.01	611.36	-	-	611.36
	09/08/2004	637.94	26.40	611.54	-	-	611.54
	09/22/2004	637.94	25.85	612.09	-	-	612.09
	10/08/2004	637.94	27.68	610.26	-	-	610.26
	10/29/2004	637.94	26.76	611.18	-	-	611.18
	11/04/2004	637.94	26.80	611.14	-	-	611.14
	11/08/2004	637.94	26.51	611.43	-	-	611.43
	12/01/2004	637.94	26.85	611.09	-	-	611.09
	12/15/2004	637.94	26.25	611.69	-	-	611.69
	01/05/2005	637.94	25.81	612.13	-	-	612.13
	01/14/2005	637.94	25.86	612.08	-	-	612.08
	02/03/2005	637.94	25.60	612.34	-	-	612.34
	02/15/2005	637.94	25.96	611.98	-	-	611.98
	03/08/2005	637.94	25.81	612.13	-	-	612.13
	03/22/2005	637.94	26.07	611.87	-	-	611.87
	04/11/2005	637.94	25.54	612.40	-	-	612.40
	04/25/2005	637.94	25.29	612.65	-	-	612.65
	05/03/2005	637.94	25.58	612.36	-	-	612.36
	05/25/2005	637.94	26.30	611.64	-	-	611.64
	06/02/2005	637.94	25.19	612.75	-	-	612.75
	06/20/2005	637.94	26.23	611.71	-	-	611.71
	06/29/2005	637.94	26.29	611.65	-	-	611.65
	07/07/2005	637.94	26.17	611.77	-	-	611.77
	07/27/2005	637.94	26.08	611.86	-	-	611.86
	08/05/2005	637.94	26.05	611.89	-	-	611.89

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	08/15/2005	637.94	26.69	611.25	-	-	611.25
	09/06/2005	637.94	25.98	611.96	-	-	611.96
	09/23/2005	637.94	25.91	612.03	-	-	612.03
	10/07/2005	637.94	26.13	611.81	-	-	611.81
	10/25/2005	637.94	25.38	612.56	-	-	612.56
	12/13/2005	637.94	24.06	613.88	-	-	613.88
	01/06/2006	637.94	24.90	613.04	-	-	613.04
	02/09/2006	637.94	23.86	614.08	-	-	614.08
	02/22/2006	637.94	23.85	614.09	-	-	614.09
	03/16/2006	637.94	24.08	613.86	-	-	613.86
	04/12/2006	637.94	24.06	613.88	-	-	613.88
	05/17/2006	637.94	24.65	613.29	-	-	613.29
	06/15/2006	637.94	24.51	613.43	-	-	613.43
	07/10/2006	637.94	25.09	612.85	-	-	612.85
	08/18/2006	637.94	NR	-	NR	-	-
	10/24/2006	637.94	NR	-	NR	-	-
	01/04/2007	637.94	23.80	614.14	-	-	614.14
	02/01/2007	637.94	24.28	613.66	-	-	613.66
	05/07/2007	637.94	24.62	613.32	-	-	613.32
	05/30/2007	637.94	21.70	616.24	-	-	616.24
	07/30/2007	637.94	25.58	612.36	-	-	612.36
	10/07/2007	637.94	NR	-	NR	-	-
	01/07/2008	637.94	25.16	612.78	-	-	612.78
	02/26/2008	637.94	24.08	613.86	-	-	613.86
2140-PZ02	01/08/2003	638.80	26.49	612.31	-	-	612.31
	09/08/2004	639.02	26.86	612.16	-	-	612.16
	09/22/2004	639.02	26.89	612.13	-	-	612.13
	10/08/2004	639.02	27.17	611.85	-	-	611.85
	10/29/2004	639.02	27.28	611.74	-	-	611.74
	11/04/2004	639.02	27.36	611.66	-	-	611.66
	11/08/2004	639.02	27.06	611.96	-	-	611.96
	12/01/2004	639.02	27.38	611.64	-	-	611.64
	12/15/2004	639.02	26.83	612.19	-	-	612.19
	01/05/2005	639.02	26.40	612.62	-	-	612.62
	01/14/2005	639.02	26.44	612.58	-	-	612.58
	02/03/2005	639.02	26.18	612.84	-	-	612.84
	02/15/2005	639.02	26.55	612.47	-	-	612.47
	03/08/2005	639.02	27.18	611.84	-	-	611.84
	03/22/2005	639.02	26.50	612.52	-	-	612.52
	04/11/2005	639.02	26.18	612.84	-	-	612.84
	04/25/2005	639.02	25.75	613.27	-	-	613.27
	05/03/2005	639.02	26.18	612.84	-	-	612.84
	05/25/2005	639.02	26.64	612.38	-	-	612.38
	06/02/2005	639.02	26.02	613.00	-	-	613.00
	06/20/2005	639.02	26.72	612.30	-	-	612.30
	06/29/2005	639.02	26.81	612.21	-	-	612.21
	07/07/2005	639.02	26.95	612.07	-	-	612.07
	07/27/2005	639.02	26.45	612.57	-	-	612.57
	08/05/2005	639.02	26.43	612.59	-	-	612.59

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	08/15/2005	639.02	27.14	611.88	-	-	611.88
	09/06/2005	639.02	26.36	612.66	-	-	612.66
	09/23/2005	639.02	26.30	612.72	-	-	612.72
	10/07/2005	639.02	26.68	612.34	-	-	612.34
	10/25/2005	639.02	25.95	613.07	-	-	613.07
	12/13/2005	639.02	24.40	614.62	-	-	614.62
	01/06/2006	639.02	25.32	613.70	-	-	613.70
	02/09/2006	639.02	24.04	614.98	-	-	614.98
	02/22/2006	639.02	24.01	615.01	-	-	615.01
	03/16/2006	639.02	24.28	614.74	-	-	614.74
	04/12/2006	639.02	24.36	614.66	-	-	614.66
	05/17/2006	639.02	24.80	614.22	-	-	614.22
	06/15/2006	639.02	NR	-	NR	-	-
	07/10/2006	639.02	NR	-	NR	-	-
	08/18/2006	639.02	24.85	614.17	-	-	614.17
	10/24/2006	639.02	24.67	614.35	-	-	614.35
	01/04/2007	639.02	24.31	614.71	-	-	614.71
	02/01/2007	639.02	24.66	614.36	-	-	614.36
	05/07/2007	639.02	24.13	614.89	-	-	614.89
	05/30/2007	639.02	NR	-	NR	-	-
	07/30/2007	639.02	24.88	614.14	-	-	614.14
	10/07/2007	639.02	NR	-	NR	-	-
	01/07/2008	639.02	25.08	613.94	-	-	613.94
	02/26/2008	639.02	24.70	614.32	-	-	614.32
2140-PZ03	01/08/2003	638.39	26.10	612.29	-	-	612.29
	09/08/2004	638.85	26.00	612.85	-	-	612.85
	09/22/2004	638.85	26.83	612.02	-	-	612.02
	10/08/2004	638.85	26.23	612.62	-	-	612.62
	10/29/2004	638.85	26.36	612.49	-	-	612.49
	11/04/2004	638.85	26.44	612.41	-	-	612.41
	11/08/2004	638.85	26.02	612.83	-	-	612.83
	12/01/2004	638.85	26.42	612.43	-	-	612.43
	12/15/2004	638.85	25.99	612.86	-	-	612.86
	01/05/2005	638.85	25.55	613.30	-	-	613.30
	01/14/2005	638.85	25.62	613.23	-	-	613.23
	02/03/2005	638.85	25.46	613.39	-	-	613.39
	02/15/2005	638.85	25.62	613.23	-	-	613.23
	03/08/2005	638.85	25.54	613.31	-	-	613.31
	03/22/2005	638.85	25.80	613.05	-	-	613.05
	04/11/2005	638.85	25.56	613.29	-	-	613.29
	04/25/2005	638.85	25.33	613.52	-	-	613.52
	05/03/2005	638.85	25.42	613.43	-	-	613.43
	05/25/2005	638.85	25.75	613.10	-	-	613.10
	06/02/2005	638.85	29.86	608.99	-	-	608.99
	06/20/2005	638.85	25.89	612.96	-	-	612.96
	06/29/2005	638.85	25.98	612.87	-	-	612.87
	07/07/2005	638.85	26.42	612.43	-	-	612.43
	07/27/2005	638.85	25.90	612.95	-	-	612.95
	08/05/2005	638.85	25.88	612.97	-	-	612.97

**Table E-1  
Historical Well Gauging Data Summary**

**AAFES  
(Building P2140)  
Fort Drum**

<b>Monitoring Well</b>	<b>Date</b>	<b>Top of Casing (ft)</b>	<b>Depth to Water (ft)</b>	<b>GW Elevation (ft)</b>	<b>Depth to Product (ft)</b>	<b>Product Thickness (ft)</b>	<b>Prod Adj GW Elevation (ft)</b>
	08/15/2005	638.85	26.21	612.64	-	-	612.64
	09/06/2005	638.85	25.78	613.07	-	-	613.07
	09/23/2005	638.85	25.72	613.13	-	-	613.13
	10/07/2005	638.85	25.58	613.27	-	-	613.27
	10/25/2005	638.85	25.15	613.70	-	-	613.70
	12/13/2005	638.85	24.01	614.84	-	-	614.84
	01/06/2006	638.85	24.74	614.11	-	-	614.11
	02/09/2006	638.85	23.71	615.14	-	-	615.14
	02/22/2006	638.85	23.68	615.17	-	-	615.17
	03/16/2006	638.85	23.88	614.97	-	-	614.97
	04/12/2006	638.85	24.08	614.77	-	-	614.77
	05/17/2006	638.85	24.59	614.26	-	-	614.26
	06/15/2006	638.85	24.29	614.56	-	-	614.56
	07/10/2006	638.85	24.98	613.87	-	-	613.87
	08/18/2006	638.85	25.51	613.34	-	-	613.34
	10/24/2006	638.85	25.59	613.26	-	-	613.26
	01/04/2007	638.85	23.85	615.00	-	-	615.00
	02/01/2007	638.85	24.10	614.75	-	-	614.75
	05/07/2007	638.85	24.29	614.56	-	-	614.56
	05/30/2007	638.85	22.38	616.47	-	-	616.47
	07/30/2007	638.85	25.33	613.52	-	-	613.52
	10/07/2007	638.85	25.27	613.58	-	-	613.58
	01/07/2008	638.85	25.15	613.70	-	-	613.70
	02/26/2008	638.85	23.91	614.94	-	-	614.94

NA = Not Available/Not Analyzed  
 ND = Not Detected  
 NR = Not Recorded





Table E-3  
Area 2140 Ozone Injection System  
May - July 2011 O&M Data  
Fort Drum, NY

Date	Time	System Condition	Injecting at Point	Air Flow Rate (scfm)	Air Flow Pressure (psi)	Notes
05/02/11	NR	Off	NR	NR	NR	System offline, waiting on parts.
05/03/11	NR	Off	NR	NR	NR	
05/04/11	NR	Off	NR	NR	NR	
05/05/11	NR	Off	NR	NR	NR	
05/06/11	NR	Off	NR	NR	NR	
05/09/11	NR	Off	NR	NR	NR	
05/10/11	NR	Off	NR	NR	NR	
05/11/11	NR	Off	NR	NR	NR	
05/12/11	NR	Off	NR	NR	NR	
05/13/11	NR	Off	NR	NR	NR	
05/16/11	NR	Off	NR	NR	NR	
05/17/11	NR	Off	NR	NR	NR	OBG was onsite, need to order more parts.
05/18/11	NR	Off	NR	NR	NR	
05/19/11	NR	Off	NR	NR	NR	
05/20/11	NR	Off	NR	NR	NR	
05/23/11	NR	Off	NR	NR	NR	
05/24/11	NR	Off	NR	NR	NR	
05/25/11	NR	Off	NR	NR	NR	
05/26/11	NR	Off	NR	NR	NR	
05/27/11	NR	Off	NR	NR	NR	
05/31/11	NR	Off	NR	NR	NR	
06/01/11	NR	Off	NR	NR	NR	
06/02/11	NR	Off	NR	NR	NR	
06/03/11	NR	Off	NR	NR	NR	System restarted.
06/06/11	0748	Off	7	2.2	38	System offline due to manifold alarm, system turned off, 2140 SVE/AS started.
06/07/11	NR	Off	NR	NR	NR	
06/08/11	NR	Off	NR	NR	NR	
06/09/11	NR	Off	NR	NR	NR	
06/10/11	NR	Off	NR	NR	NR	OBG onsite to install new booster pump.
06/13/11	458	On	7	2.2	28	
06/14/11	531	On	8	3.0	28	
06/15/11	801	On	8	3.0	29	
06/16/11	1545	On	7	2.2	28	
06/17/11	0913	On	9	3.0	28	
06/20/11	0745	Off	NR	NR	NR	System offline due to broken pressure relief valve.
06/21/11	NR	Off	NR	NR	NR	
06/22/11	NR	Off	NR	NR	NR	
06/23/11	NR	Off	NR	NR	NR	
06/24/11	NR	Off	NR	NR	NR	
06/27/11	NR	Off	NR	NR	NR	
06/28/11	NR	Off	NR	NR	NR	
06/29/11	NR	Off	NR	NR	NR	
06/30/11	NR	Off	NR	NR	NR	
07/01/11	NR	Off	NR	NR	NR	
07/05/11	NR	Off	NR	NR	NR	
07/06/11	NR	Off	NR	NR	NR	
07/07/11	NR	Off	NR	NR	NR	
07/08/11	NR	Off	NR	NR	NR	
07/11/11	NR	Off	NR	NR	NR	
07/12/11	NR	Off	NR	NR	NR	
07/13/11	NR	Off	NR	NR	NR	OBG repair in progress.

Table E-3  
Area 2140 Ozone Injection System  
May - July 2011 O&M Data  
Fort Drum, NY

Date	Time	System Condition	Injecting at Point	Air Flow Rate (scfm)	Air Flow Pressure (psi)	Notes
07/14/11	NR	Off	NR	NR	NR	Additional repairs needed.
07/15/11	NR	Off	NR	NR	NR	
07/18/11	NR	Off	NR	NR	NR	
07/19/11	NR	Off	NR	NR	NR	
07/20/11	NR	Off	NR	NR	NR	
07/21/11	NR	Off	NR	NR	NR	
07/22/11	NR	Off	NR	NR	NR	
07/25/11	NR	Off	NR	NR	NR	
07/26/11	NR	Off	NR	NR	NR	
07/27/11	NR	Off	NR	NR	NR	OBG onsite to finish repairs.
07/28/11	NR	Off	NR	NR	NR	OBG removed O3 generator for additional repairs.
07/29/11	NR	Off	NR	NR	NR	

Notes:

NR = Not Recorded.

scfm = Standard Cubic Feet per Minute

psi = Pressure per Square Inch

## **APPENDIX F**

### **Remedial System Action List**

**Appendix F**  
**May - July 2011**  
**Remedial System Action List**  
**Fort Drum, New York**

Date	Action Taken
<b>Area 1795 - System C</b>	
05/31/11	The AAS system was offline upon arrival due to a power outage
05/31/11	The AAS system was checked and reactivated
06/20/11	The AAS system was offline upon arrival due to a power outage
06/20/11	The AAS system was checked and reactivated
07/26/11	The AAS system was offline upon arrival due to a power outage
07/26/11	The AAS system was checked and reactivated
07/29/11	The AAS system was taken offline for the basewide sampling event
<b>Areas 3805 &amp; 1995 - System A</b>	
05/19/11	The AAS and SVE systems were activated to ensure system is operational if needed
05/20/11	The AAS and SVE systems were deactivated after the completion of the test
<b>Areas 3805 &amp; 1995 - System B</b>	
05/16/11	The SVE portion of the system was activated as a test prior to the PCE pump test
05/18/11	The SVE portion of the system was deactivated once the test was completed
06/13/11	The AAS system was taken offline for the PCE pump test
06/13/11	The SVE portion of the system was activated for the PCE pump test
06/14/11	The SVE portion of the system was deactivated once the test was completed
07/01/11	The AAS system was reactivated after the PCE pump test was completed
07/26/11	The AAS system was offline upon arrival due to a power outage
07/26/11	The AAS system was checked and reactivated
07/29/11	The AAS system was taken offline for the basewide sampling event
<b>Areas 3805 &amp; 1995 - System C</b>	
05/31/11	The AAS and SVE systems were offline upon arrival due to a power outage
05/31/11	The AAS and SVE systems were checked and reactivated
06/14/11	The AAS and SVE systems were taken offline for the PCE pump test
06/29/11	The SVE portion of the system was repaired and reactivated
07/01/11	The AAS and SVE systems were reactivated after the PCE pump test was completed
07/26/11	The AAS and SVE systems were offline upon arrival due to a power outage
07/26/11	The AAS and SVE systems were checked and reactivated
07/29/11	The AAS and SVE systems were taken offline for the basewide sampling event
<b>Areas 3805 &amp; 1995 - System D</b>	
05/31/11	The AAS system was offline upon arrival due to a power outage
05/31/11	The AAS system was checked and reactivated
06/15/11	The AAS system was taken offline for the PCE pump test
07/01/11	The AAS system was reactivated after the PCE pump test was completed
07/26/11	The AAS system was offline upon arrival due to a power outage
07/26/11	The AAS system was checked and reactivated
07/29/11	The AAS system was taken offline for the basewide sampling event

**Appendix F**  
**May - July 2011**  
**Remedial System Action List**  
**Fort Drum, New York**

Date	Action Taken
<b><i>AAFES Station</i></b>	
05/31/11	The AAS and SVE systems were offline upon arrival due to a power outage
05/31/11	The AAS and SVE systems were checked and reactivated
06/13/11	The AAS and SVE systems were deactivated to allow the ozone treatment system to become operational
06/22/11	The AAS and SVE systems were reactivated
07/29/11	The AAS and SVE systems were taken offline for the basewide sampling event
<b><i>AAFES Station - Ozone System</i></b>	
05/01/11	Ozone treatment system is offline for repairs to a broken compressor
06/13/11	Ozone treatment system was reactivated once repairs were completed
06/22/11	Ozone treatment system was taken offline due to a broken booster pump