



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
US ARMY INSTALLATION MANAGEMENT COMMAND
HEADQUARTERS, UNITED STATES ARMY GARRISON, FORT DRUM
10000 10TH MOUNTAIN DIVISION DRIVE
FORT DRUM, NEW YORK 13602-5000

June 21, 2013

Public Works
Environmental Division

New York State Department of
Environmental Conservation
ATTN: Ms. Heather Bishop
Division of Environmental Remediation
Remedial Bureau A
625 Broadway, 11th Floor
Albany, New York 12233-7015

Dear Ms. Bishop:

Enclosed for your information and review is a copy of the report "Quarterly Report of Progress (February 2013 - April 2013) Operations and Maintenance Remediation Systems for Gasoline Alley and Army Air Force Exchange Service Station", Fort Drum, New York.

If you have any questions concerning this report, please contact Paul Zang at (315) 772-6312 or paul.g.zang.civ@mail.mil.

Sincerely,

A handwritten signature in cursive script that reads "James M. Miller".

James M. Miller
Chief, Environmental Division
Public Works

Enclosure



Plexus Scientific Corporation
4501 Ford Avenue, Suite 1200
Alexandria, Virginia 22302
Tel: 703-820-3339
Fax: 703-845-8568

June 18, 2013

Scott Weber
US Army Environmental Command
Cleanup & Munitions Response Division
U.S. Army Environmental Command
IMAE-CE: Scott Weber
2450 Connell Road, Bldg 2264
1st floor, room - 129, cubicle - 010
Fort Sam Houston, TX 78234-7664

Re: Quarterly Report of Progress (February 2013 – April 2013), Operations and Maintenance, Remediation Systems for Gasoline Alley and Army Air Force Exchange Service Station, Fort Drum, New York

Dear Mr. Weber,

Plexus Scientific is pleased to submit the Quarterly Report of Progress (February 2013 – April 2013) of Operations and Maintenance at Remediation Systems for Gasoline Alley and Army Air Force Exchange Service Station, Fort Drum, New York to the New York State Department of Environmental Conservation. All Army comments to date have been incorporated into this report.

Please contact the undersigned at 703-820-3339, ext. 114, if you should have any questions or comments.

Sincerely,

PLEXUS SCIENTIFIC CORPORATION

A handwritten signature in black ink, appearing to read 'Michael Brewin'.

Michael Brewin
Project Manager

cc:
Paul Zang – 2 copies



**Quarterly Report of Progress (February 2013-April 2013)
Operations and Maintenance
Remediation Systems for Gasoline Alley and Army Air Force
Exchange Service Station
Fort Drum, New York**



United States Army Environmental Command



June 2013

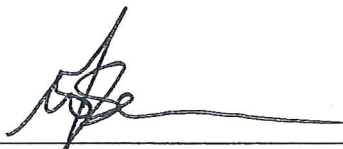
**Quarterly Report of Progress (February 2013-April 2013)
Operations and Maintenance
Remediation Systems for Gasoline Alley and
Army Air Force Exchange Service Station
Fort Drum, New York**

Prepared for

UNITED STATES ARMY ENVIRONMENTAL COMMAND
2450 CONNELL ROAD, BLDG 2264
FORT SAM HOUSTON, TX 78234

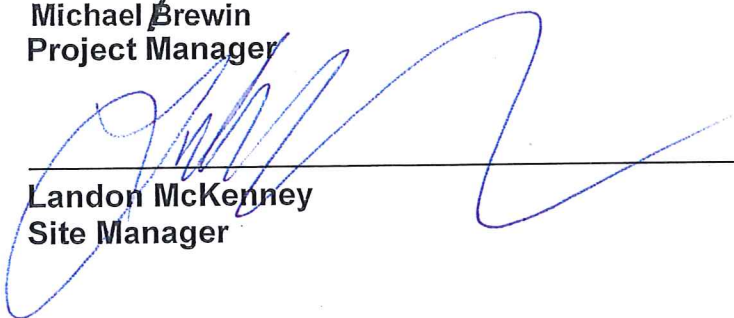
Prepared by

Plexus Scientific Corporation
4501 Ford Avenue, Suite 1200
Alexandria, VA 22302
Tel: 703-820-3339



**Michael Brewin
Project Manager**

6/18/13
Date



**Landon McKenney
Site Manager**

6/18/13
Date

TABLE OF CONTENTS

1.0	INTRODUCTION.....	1
2.0	TECHNOLOGY OVERVIEW	2
2.1	In-situ Chemical Oxidation with Ozone	2
2.2	Dual-phase Extraction / Multi-phase Extraction	2
2.3	Aquifer Air Sparging System	3
2.4	Soil Vapor Extraction.....	3
3.0	GASOLINE ALLEY SITE DESCRIPTIONS	4
3.1	Area 1295.....	4
3.2	Area 1595.....	4
3.3	Area 1795.....	6
3.4	Areas 3805 and 1995.....	6
3.5	Army Air Force Exchange Service Station Site Description	7
3.5.1	<i>Dual-Phase Extraction System – Source Area Treatment.....</i>	<i>7</i>
3.5.2	<i>Aquifer Air Sparging with Ozone System – Off-site Wetland Protection.....</i>	<i>8</i>
4.0	SYSTEM OPERATION AND PERFORMANCE MONITORING ACTIVITIES	9
4.1	Area 1295.....	9
4.1.1	Ozone System.....	9
4.1.2	Performance Monitoring.....	9
4.2	Area 1595.....	10
4.2.1	Soil Vapor Extraction System.....	10
4.2.1.1	System Operation.....	10
4.2.2	Aquifer Air Sparging System	10
4.2.2.1	System Operation.....	10
4.2.2.2	Performance Monitoring.....	10
4.3	Area 1795.....	11
4.3.1	Multi-Phase Extraction Systems	11
4.3.1.1	Area 1795 - System A Operation	11
4.3.1.2	Area 1795 - System B Operation	11
4.3.1.3	Performance Monitoring.....	11
4.3.2	Aquifer Air Sparge System.....	11
4.3.2.1	Area 1795 - System A Operation	12
4.3.2.2	Area 1795 - System B Operation	12
4.3.2.3	Area 1795 - System C Operation	12
4.3.2.4	Performance Monitoring.....	13
4.4	Areas 3805 And 1995	13
4.4.1	Multi-Phase Extraction Systems	13
4.4.1.1	Area 3805 - System A	13
4.4.1.2	Area 3805 - System B	13
4.4.1.3	Area 3805 - System C.....	14
4.4.1.4	Area 1995 - System D.....	14
4.4.1.5	Performance Monitoring.....	14
4.4.2	Aquifer Air Sparging Systems	15
4.4.2.1	Area 3805 - System A	15
4.4.2.2	Area 3805 - System B	15
4.4.2.3	Area 3805 - System C.....	15
4.4.2.4	Area 1995 - System D.....	16
4.4.2.5	Performance Monitoring.....	16
4.5	Army Air Force Exchange Service Station (Building P-2140).....	16
4.5.1	Dual-Phase Extraction System	16
4.5.1.1	System Operation.....	16
4.5.1.2	Performance Monitoring.....	17
4.5.2	Aquifer Air Sparging System.....	17
4.5.2.1	System Operation.....	17
4.5.2.2	Performance Monitoring.....	17
4.5.3	Aquifer Air Sparging with Ozone System– Off-site Wetland Protection.....	18

4.5.4	Mobile Ozone Aquifer Air Sparging System.....	18
4.5.4.1	System Operation.....	18
4.5.4.2	Performance Monitoring.....	18
5.0	RESULTS	19
5.1	Area 1295.....	19
5.2	Area 1595.....	19
5.2.1	Light Non-Aqueous Phase Liquid.....	19
5.2.2	Soil Vapor Extraction/Multi-Phase Extraction	19
5.2.3	Groundwater Treatment.....	20
5.2.4	System Effectiveness Monitoring.....	20
5.3	Area 1795.....	20
5.3.1	Light Non-Aqueous Phase Liquid.....	20
5.3.2	Soil Vapor Extraction/Multi-Phase Extraction	20
5.3.2.1	Area 1795 - System A.....	20
5.3.2.2	Area 1795 - System B.....	21
5.3.2.3	Area 1795 - System C.....	21
5.3.3	Groundwater Treatment.....	21
5.3.3.1	Area 1795 - System A.....	21
5.3.3.2	Area 1795 - System B.....	21
5.3.4	System Effectiveness Monitoring.....	21
5.4	Areas 3805 and 1995.....	22
5.4.1	Light Non-Aqueous Phase Liquid.....	22
5.4.2	Soil Vapor Extraction/Multi-Phase Extraction	22
5.4.2.1	Area 3805 - System A.....	22
5.4.2.2	Area 3805 - System B.....	22
5.4.2.3	Area 3805 - System C.....	22
5.4.2.4	Area 1995 - System D.....	22
5.4.3	Groundwater Treatment.....	23
5.4.3.1	Area 3805 - System A.....	23
5.4.3.2	Area 3805 - System B.....	23
5.4.3.3	Area 3805 - System C.....	23
5.4.3.4	Area 1995 - System D.....	23
5.4.4	System Effectiveness Monitoring.....	23
5.5	Army Air Force Exchange Service Station (Building P-2140).....	24
5.5.1	Light Non-Aqueous Phase Liquids.....	24
5.5.2	Soil Vapor Extraction/Dual Phase Extraction.....	24
5.5.3	Groundwater Treatment.....	24
5.5.4	System Effectiveness Monitoring.....	24
5.5.5	Source Area Ozone Treatment.....	24
6.0	SUMMARY AND DISCUSSION	25
6.1	Area 1295.....	25
6.2	Area 1595.....	25
6.3	Area 1795.....	26
6.4	Areas 3805 and 1995.....	27
6.5	Army Air Force Exchange Service Station (Building P-2140).....	28

FIGURES

- 1-1 - Site Location Map
- 3-1 - Area 1595, Injection/Application Well Locations
- 3-2 - Area 1795, Injection/Application Well Locations
- 3-3 - PID Readings (PCE and MIP events)
- 3-4 - Area 3805, Injection/Application Well Locations
- 4-1 - Area 1295, Gasoline Alley
- 4-2 - Area 1595, Gasoline Alley
- 4-3 - Area 1795, MPE/SVE/AS Treatment System Plan, Gasoline Alley
- 4-4 - Area 1795, AAS (System A, B and C), Gasoline Alley
- 4-5 - Area 3805 A, Gasoline Alley
- 4-6 - Area 3805 B, Gasoline Alley
- 4-7 - Area 3805 C, Gasoline Alley
- 4-8 - Area 3805 D/1995, Gasoline Alley
- 4-9 - Building P-2140 AAFES Station, DPE and AAS Systems, Fort Drum, New York
- 5-1 - 1295 BTEX Comparison
- 5-2 - Area 1595 Trends in Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery
- 5-3 - 1595 BTEX Comparison
- 5-4 - Area 1795 System A Trends in Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery from July 2008 to present.
- 5-5 - Area 1795 System B Trends in Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery
- 5-6 - 1795 BTEX Comparison
- 5-7 - Area 3805 System A Trends in Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery
- 5-8 - Area 3805 System B Trends in Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery
- 5-9 - Area 3805 System C Trends in Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery
- 5-10 - Area 3805 System D Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery
- 5-11 - 3805/1995 BTEX Comparison
- 5-12 - AAFES (Building P-2140) Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery
- 5-13 - 2140 BTEX Comparison

TABLES

- 3-1 - Summary of DO/ORP/PID Data, Area 1295
- 3-2 - Summary of estimated contaminant removal, Area 1595
- 3-3 - Cumulative volume of treated groundwater, Area 1595
- 3-4 - Summary of DO/ORP/PID Data, Area 1595
- 3-5 - Summary of estimated contaminant, Area 1795
- 3-6 - Cumulative volume of treated groundwater, Area 1795
- 3-7 - Summary of DO/ORP/PID Data, Area 1795
- 3-8 - Summary of estimated contaminant removal, Areas 3805 and 1995
- 3-9 - Cumulative volume of treated groundwater, Areas 3805 and 1995
- 3-10 - Summary of DO/ORP/PID Data, Areas 3805 and 1995
- 3-11 - Summary of estimated contaminant removal, AAFES Station
- 3-12 - Cumulative volume of treated groundwater, AAFES Station
- 3-13 - Summary of DO/ORP/PID Data, AAFES Station

APPENDICES

- Appendix A - Summary of Operation and Maintenance Data, Area 1295 and LNAPL Gauging Data
- Appendix B - Summary of Well Gauging Results and Operation and Maintenance Data, Area 1595
- Appendix C - Summary of Well Gauging Results and Operation and Maintenance Data, Area 1795
- Appendix D - Summary of Well Gauging Results and Operation and Maintenance Data, Areas 3805 and 1995
- Appendix E - Summary of Well Gauging Results and Operation and Maintenance Data, AAFES Station, Building P-2140
- Appendix F - Remedial System Action List

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 30 April 2013. 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 (O₃) injection. Ozone is an allotrope of oxygen, consisting of three oxygen atoms that are less stable than diatomic oxygen (O₂). 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 (CO₂) and water (H₂O).

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 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

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. A remediation system was not installed at this site due to logistical site constraints, including an active railroad line. 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 ground 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. 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. On 13 December 2011, Plexus began a five month nutrient application trial in conjunction with normal system operations. Following the nutrient application trial, Plexus continued ozone application as outlined in the Workplan mentioned above. Results and recommendations for this site are presented in Sections 4.1 and 5.1 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 deactivated and partially decommissioned in preparation for the SVE and Aquifer Air Sparging (AAS) system installation. Construction of the SVE/AAS system was completed between July and November 2005 and the SVE/AAS system was activated in December 2005. The SVE/AAS treatment system was designed to address constituents of concern in subsurface soil, groundwater, and surface water at Area 1595. The system was deactivated on 21 December 2009 in preparation for 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 from New York State Department of Environmental Conservation (NYSDEC) and United States Environmental Protection Agency (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.

In September 2011, extraction system well gauging data indicated that the exposed screen interval on the extraction wells ranged from two feet to four feet. Following system checks and general maintenance, the extraction system was reactivated on 7 October 2011. The system operated until 13 December 2011, at which time, a five month nutrient application trial was implemented to evaluate the sole affects of nutrient amendments on contaminant remediation. Following the nutrient application trial, the SVE and AAS systems were reactivated in May 2012.

In June 2012, groundwater samples were collected to assess availability of indigenous, petroleum hydrocarbon-degrading microorganisms. Results of the study indicated a presence of aerobic and anaerobic microbes capable of consuming petroleum hydrocarbons, but the plate counts indicated that the existing colonies were too low in volume to effectively consume the dissolved contaminants in the groundwater within a ten year time period. In October 2012, Plexus submitted the *Draft Bioaugmentation Pilot Study Remedial Action Work Plan*. The plan proposed to extract groundwater from the site to grow indigenous strains of microbes for reinjection into the contaminant plume via existing system infrastructure (**Figure 3-1**) to feed on the petroleum hydrocarbons. The plan detailed six months of inoculations with microbes in a effort to increase the existing microbial colonies and determine if additional inoculations would promote sustainable consumption of the contaminants and monitored natural attenuation phase. Operating system results and recommendations for this site are presented in Sections 4.2 and 5.2 of this document.

3.3 Area 1795

The initial interim remedial action, bio-slurping pilot treatment system, was discontinued in September 2000. While the groundwater pilot study and corrective action work plans were being developed, select site wells were gauged on a monthly basis between September 2000 and July 2006 to monitor the water table elevation and light non-aqueous phase liquid (LNAPL). LNAPL was recovered from site wells when present. Multi-phase extraction (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)

Systems A and B were deactivated 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 deactivated 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. On 13 December 2011, Plexus began a five month nutrient application trial in conjunction with the targeted SVE/AAS system operations.

In June 2012, groundwater samples were collected to assess availability of indigenous, petroleum hydrocarbon degrading microorganisms. Results of the study indicated a presence of aerobic and anaerobic microbes capable of consuming petroleum hydrocarbons, but the plate counts indicated that the existing colonies were too low in volume to effectively consume the dissolved contaminants in the groundwater within a ten year time period. In October 2012, Plexus submitted the *Draft Bioaugmentation Pilot Study Remedial Action Work Plan*. The plan proposed to extract groundwater from the site to grow indigenous strains of microbes for reinjection into the contaminant plume via existing system infrastructure (**Figure 3-2**) to feed on the petroleum hydrocarbons. The plan detailed six months of inoculations with microbes in a effort to increase the existing microbial colonies and determine if additional inoculations would promote sustainable consumption of the contaminants during the monitored natural attenuation phase. Results and recommendations for this site are presented in Sections 4.3 and 5.3 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.

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 3-3)** illustrates the organic vapor concentrations reported on the field screening equipment. Plexus submitted a proposal to modify selected existing vertical extraction wells into horizontal extraction wells at Gasoline Alley Area 3805, Fort Drum, New York in April 2011, and a revised copy was submitted in October 2011. Following approval from NYSDEC, the modification of select vertical extraction wells into horizontal extraction wells was conducted in March 2012 to provide a recovery and treatment solution for the shallower impacted soils. Additionally, on 13 December 2011, Plexus implemented a five month nutrient application trial in conjunction with AAS system operations.

In June 2012, groundwater samples were collected to assess availability of indigenous, petroleum hydrocarbon degrading microorganisms. Results of the study indicated a presence of aerobic and anaerobic microbes capable of consuming petroleum hydrocarbons, but the plate counts indicated that the existing colonies were too low in volume to effectively consume the dissolved contaminants in the groundwater within a ten year time period. In October 2012, Plexus submitted the *Draft Bioaugmentation Pilot Study Remedial Action Work Plan*. The plan proposed to extract groundwater from the site to grow indigenous strains of microbes for reinjection into the contaminant plume via existing system infrastructure **(Figure 3-4)** to feed on the petroleum hydrocarbons. The plan detailed six months of inoculations with microbes in a effort to increase the existing microbial colonies and determine if additional inoculations would promote sustainable consumption of the contaminants during the monitored natural attenuation phase. Results and recommendations for this site are presented in Sections 4.4 and 5.4 of this document.

3.5 Army Air Force Exchange Service Station Site Description

The 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 Work Plan 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 deactivated on 22 December 2009 in preparation for 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. 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 removed from the site in September 2011 and in March 2012, a new ozone unit was installed and activated at the site. Additionally, on 13 December 2011, Plexus implemented a five month nutrient application in conjunction with DPE/AAS system operations. Following the nutrient application trial, Plexus continued ozone application as outlined in the Workplan mentioned above. Results and recommendations for this site are presented in Sections 4.5 and 5.5 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 4.5 and 5.5 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 (February 2013 to April 2013). 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 4-1**).

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 for 89 days during the reporting period. Based on the 89 days of potential operating time (excludes scheduled downtime), the system achieved 100 percent uptime during this monitoring period. System downtime is summarized in the following table:

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

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

Shut Down	Restarted	Reason	Description
NA	NA	NA	NA

4.2 Area 1595

4.2.1 Soil Vapor Extraction System

4.2.1.1 System Operation

The Area 1595 SVE treatment system (**Figure 4-2**) operated 50 days between 1 February 2013 and 30 April 2013 as derived from the system's operation hour meter. Based on the 50 days of potential operating time (excludes scheduled downtime), the system achieved 100 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	37	89	42
Operational downtime	0	50	0
Unscheduled downtime	0	50	0
Total unexpected downtime	0	50	0

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

Shut Down	Restarted	Reason	Description
03/22/13	NA	Scheduled	Off for bio augmentation

4.2.2 Aquifer Air Sparging System

4.2.2.1 System Operation

The Area 1595 AAS system (**Figure 4-2**) operated 50 days between 1 February 2013 and 30 April 2013 as derived from the systems operation hour meter. Based on the 50 days of potential operating time (excludes scheduled downtime), the system achieved 100 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	37	89	42
Operational downtime	0	50	0
Unscheduled downtime	0	50	0
Total unexpected downtime	0	50	0

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

Shut Down	Restarted	Reason	Description
03/22/13	NA	Scheduled	Off for bio augmentation

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 4-3**) 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 87 days between 1 February 2013 and 30 April 2013 as derived from the system's operation hour meter. Based on the 89 days of potential operating time (excludes scheduled downtime), the system achieved 98 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	0	89	0
Operational downtime	1	88	1
Unscheduled downtime	1	87	1
Total unexpected downtime	2	87	2

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

Shut Down	Restarted	Reason	Description
03/18/13	03/18/13	Operational	Air compressor leak
04/02/13	04/02/13	Unscheduled	Power outage

4.3.1.2 Area 1795 - System B Operation

Area 1795 System B (**Figure 4-3**) operates extraction Legs 2, 3, and 4. Legs 3 and 4, located within the center of the contaminant plume, were tied in to 1795 System A so that this area would continue to be treated while the blower was being repaired. 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.

4.3.2.1 Area 1795 - System A Operation

Area 1795 System A AAS system operated for 86 days between 1 February 2013 and 30 April 2013 as derived from the system's operation hour meter. Based on the 89 days of potential operating time (excludes scheduled downtime), the system achieved 96 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	0	89	0
Operational downtime	2	87	3
Unscheduled downtime	1	86	1
Total unexpected downtime	3	86	4

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

Shut Down	Restarted	Reason	Description
03/18/13	03/18/13	Operational	Air compressor leak
04/02/13	04/02/13	Unscheduled	Power outage
04/04/13	04/04/13	Operational	Air line leak

4.3.2.2 Area 1795 - System B Operation

Area 1795 System B AAS system operated for 88 days between 1 February 2012 and 30 April 2013 as derived from the system's operation hour meter. Based on the 89 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	89	0
Operational Downtime	1	88	1
Unscheduled	0	88	0
Total unexpected downtime	1	88	1

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

Shut Down	Restarted	Reason	Description
04/02/13	04/02/13	Operational	Air compressor leak

4.3.2.3 Area 1795 - System C Operation

Area 1795 System C (**Figure 4-4**) runs Lines 7, 8 and 9. The AAS treatment system operated for 89 days between 1 February 2013 and 30 April 2013 as derived from the system's operation hour meter. Based on the 89 days of potential operating time (excludes scheduled downtime), the system achieved 100 percent uptime during the monitoring period. System downtime is summarized in the following table:

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

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

Shut Down	Restarted	Reason	Description
NA	NA	NA	NA

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 4-5**) primarily runs Lines 3, 4, and 5. The MPE treatment system did not operate between 1 February 2013 and 30 April 2013. The system operated continuously from 15 April 2008 until it was deactivated following the system evaluation and optimization activities conducted in April 2009. With the SVE portion of System 3805 B operating the all extraction wells modified to horizontal extraction points, the SVE portion of System 3805 A will remain off as a back-up unit should System B have mechanical issues.

4.4.1.2 Area 3805 - System B

Area 3805 System B (**Figure 4-6**) was initially designed to operate Lines 6, 7, 8, 9, 10 and 11. Lines 10 and 11 were activated in July 2008, but deactivated 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. With the exception of operations for discharge permit sampling, the system remained off until selected vertical extraction wells were modified to horizontal extraction points in March 2012. Upon completion of the horizontal well modification, the MPE treatment system was activated on 12 March 2012. The MPE treatment system operated for 79 days between 1 February 2013 and 30 April 2013 as derived from the system's operation hour meter. Based on the 89 days of potential operating time (excludes scheduled downtime), the system achieved 88

percent uptime during this monitoring period. System downtime is summarized in the following table.

Reason	Days Down	Total Days	Percentage
Scheduled	0	89	0
Operational downtime	10	79	12
Unscheduled downtime	0	79	0
Total unexpected downtime	10	79	12

Approximately one day of downtime is attributed to general monitoring and maintenance activities. Since this time was spread out over the course of the monitoring period, no specific date could be assigned. A detailed breakdown of MPE system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
02/01/13	02/11/13	Operational	Damaged belts

4.4.1.3 Area 3805 - System C

Area 3805 System C (**Figure 4-7**) runs Lines 1 and 2. The MPE treatment system operated for 88 days between 1 February 2013 and 30 April 2013 as derived from the system's operation hour meter. Based on the 89 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	89	0
Operational downtime	1	88	1
Unscheduled downtime	0	88	0
Total unexpected downtime	1	88	1

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

Shut Down	Restarted	Reason	Description
03/19/13	03/19/13	Operational	Air compressor leak

4.4.1.4 Area 1995 - System D

Area 1995 System D (**Figure 4-8**) is comprised of Lines 12 and 13. The SVE system was deactivated on 6 August 2008 due to low organic vapor recovery and 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 44 days between 1 February 2013 and 30 April 2013 as derived from the system's operation hour meter. Based on the 53 days of potential operating time (excludes scheduled downtime), the system achieved 83 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	36	89	40
Operational downtime	9	53	17
Unscheduled downtime	0	44	0
Total unexpected downtime	9	44	17

Approximately one day of downtime is attributed to general monitoring and maintenance activities. Since this time was spread out over the course of the monitoring period, no specific date could be assigned. A detailed breakdown of AAS system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
02/02/13	02/13/13	Operational	Damaged belts
03/25/13	NA	Scheduled	Bio augmentation

4.4.2.3 Area 3805 - System C

The AAS treatment system operated for 89 days between 1 February 2013 and 30 April 2013 as derived from the system's operation hour meter. Based on the 89 days of potential operating time (excludes scheduled downtime), the system achieved 100 percent uptime during this monitoring period. System downtime is summarized in the following table:

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

Approximately one day of downtime is attributed to general monitoring and maintenance activities. Since this time was spread out over the course of the monitoring period, no specific

date could be assigned. A detailed breakdown of AAS system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
NA	NA	NA	NA

4.4.2.4 Area 1995 - System D

The AAS treatment system operated for 53 days between 1 February 2013 and 30 April 2013 as derived from the system's operation hour meter. Based on the 53 days of potential operating time (excludes scheduled downtime), the system achieved 100 percent uptime during this monitoring period. System downtime is summarized in the following table:

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

Approximately one day of downtime is attributed to general monitoring and maintenance activities. Since this time was spread out over the course of the monitoring period, no specific date could be assigned. A detailed breakdown of AAS system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
NA	NA	NA	NA

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 (Building P-2140)

4.5.1 Dual-Phase Extraction System

4.5.1.1 System Operation

The AAFES Station (Building P-2140) DPE system (**Figure 4-9**) did not operate during the 1 February 2013 and 30 April 2013 reporting period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	89	89	100
Operational downtime	0	0	0
Unscheduled downtime	0	0	0

Total unexpected downtime	0	0	0
---------------------------	---	---	---

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

Shut Down	Restarted	Reason	Description
3/26/12	NA	Scheduled	Off for ozone system operation

4.5.1.2 Performance Monitoring

Daily performance monitoring and O&M activities were conducted at the AAFES Station (Building P-2140) DPE 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 4-9**.

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 pilot tube installed on the extraction line. In addition, VOC concentrations were monitored and recorded weekly.

4.5.2 Aquifer Air Sparging System

The AAS system was operated during the monitoring period to augment the DPE/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

The AAFES Station (Building P-2140) AAS treatment system did not operate during the 1 February 2013 and 30 April 2013 reporting period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	89	89	100
Operational downtime	0	0	0
Unscheduled downtime	0	0	0
Total unexpected downtime	0	0	0

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

Shut Down	Restarted	Reason	Description
3/26/12	NA	Scheduled	Off for ozone system operation

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. Subsequently, the AAS with ozone treatment was modified into a mobile treatment unit.

4.5.4 Mobile Ozone Aquifer Air Sparging System

4.5.4.1 System Operation

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 points. Mechanical faults and failures with the ozone generator, air compressor and other associated components resulted in demobilizing the mobile ozone trailer in September 2011. Realizing the benefits of the continuous ozone injection, Plexus acquired a new mobile unit, which became fully operational on 23 March 2012.

The AAFES Station (Building P-2140) ozone injection system operated for 89 days between 1 February 2013 and 30 April 2013 as derived from the system's operation hour meter. Based on the 89 days of potential operating time (excludes scheduled downtime), the system achieved 100 percent uptime during this monitoring period. System downtime is summarized in the following table:

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

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

Shut Down	Restarted	Reason	Description
NA	NA	NA	NA

4.5.4.2 Performance Monitoring

Following remobilization and activation of the mobile ozone system on 26 March 2012, daily performance monitoring and O&M activities were conducted at AAFES Station (Building P-2140). 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.

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, when the system was deactivated 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 continuous power for the system to operate the daily cycle of the injection points. 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. Additionally, a five month nutrient application trial began in December 2011, in which a mixture of nitrogen: phosphorous: potassium was introduced into the subsurface via select monitoring injection points to enhance bacterial growth and stimulate biodegradation. Groundwater analytical results from the sample collected from 1295-MW30 in Spring 2012 Sampling Event, indicated a total BTEX concentration of 4,439.63 micrograms per liter ($\mu\text{g/l}$). Results from the sample collected during the Fall 2012 Sampling Event, indicated a total BTEX concentration of 6,576.16 $\mu\text{g/l}$. Although there is a 2,000 $\mu\text{g/l}$ rebound in concentration, the concentrations from the Fall 2012 event illustrate a decrease of dissolved contaminants from 10,637 $\mu\text{g/l}$ recorded from the Spring 2010 Sampling Event (**Figure 5-1**).

5.2 Area 1595

5.2.1 Light Non-Aqueous Phase Liquid

LNAPL was not observed during the monitoring period, (**Appendix A, Table A-2**). Historic LNAPL observations and water level gauging is shown in **Appendix B, Table B-1**. There was a total of 0 gallons of LNAPL recovered during the quarter. 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

Combined extraction flow rates (including dilution air) and vacuum pump discharge concentrations averaged 685.6 cfm and 3.4 parts per million (ppm), respectively, during the monitoring period (**Appendix B, Table B-2**). These concentrations equate to the removal of 2.82 gallons of gasoline equivalent from the vapor phase during the monitoring period (**Table 3-**

2. The trends in vacuum pump discharge concentration and cumulative contaminant are represented in **Figure 5-2**.

5.2.3 Groundwater Treatment

A total of 0 gallons of groundwater were extracted through system during the monitoring period (**Table 3-3**). 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 3-4**. The active SVE/AAS system was deactivated 13 December 2011 for a five month nutrient application trial to evaluate the sole benefit of a mixture of nitrogen: phosphorous: potassium to enhance bacterial growth and stimulate biodegradation in an oxygen depleted environment.

The results from the Fall 2012 Sampling Event results indicate a total BTEX contaminant significantly increased at two monitoring wells as compared to Fall 2011 results. Concentrations increased at 1595-PZ12 increased from 42.5 µg/l to 514.8 µg/l and 1595-PZ13 increased from 325.2 µg/l to 915 µg/l. The results from the Fall 2012 Sampling Event indicate a decrease in total BTEX contaminants as compared to Spring 2012 results at 3 monitoring wells. Concentrations at 1595-MWS7 decreased from 1,951 µg/l to 79 µg/l; 1595-MWS8 decreased from 7.77 µg/l (Q4, 2011) to 2.5 µg/l; and 1595-PZ11 decreased from 9.61 µg/l to 5.5 µg/l (**Figure 5-3**). The figure illustrates a fluctuation in contaminant concentrations from the results of groundwater collected during the February 2012 (Q1, 2012) mid-trial sampling, indicating the treatment did not enhance bacterial growth and stimulate biodegradation. Additionally, the site has not benefitted by reactivating the SVE/AAS systems.

The SVE/AAS systems were deactivated in March 2013 and indigenous anaerobic microbes known to degrade petroleum hydrocarbons started being added via the AAS infrastructure as part of a pilot study. The six month pilot study will determine if the site can sustain biodegradation by increasing the population of the existing microbial strains.

5.3 Area 1795

5.3.1 Light Non-Aqueous Phase Liquid

LNAPL was not observed during the monitoring period (**Appendix A, Table A-2**). Historic LNAPL observations and water level gauging is shown in **Appendix C, Table C-1**. There was a total of 0 gallons of LNAPL recovered during the quarter. 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 395.2 cfm and 87.4 ppm, respectively, during the monitoring period (**Appendix C, Table C-2**). These concentrations equate to the removal of 66.21 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 5-4**. 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 (**Appendix C, Table C-3**). The trends in vacuum pump discharge concentration and cumulative contaminant recovery for System B are represented in **Figure 5-5**.

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

A total of 0 gallons of groundwater were 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**. A five month nutrient application trial began in December 2011, in which a mixture of nitrogen: phosphorous: potassium was introduced into the subsurface via select AAS injection points to enhance bacterial growth and stimulate biodegradation.

The results from the Fall 2012 Sampling Event results indicate a total BTEX contaminant decrease at two of the “hot-spot” monitoring wells, as compared to the Fall 2011 results. Concentrations increased at 1795-MWS7 from 7,291 $\mu\text{g/l}$ to 15,970 $\mu\text{g/l}$, and PZ15 decreased from 1,931 $\mu\text{g/l}$ to 1,044 $\mu\text{g/l}$. The Fall 2012 Sampling Event results indicate an increase of total BTEX at several centrally located monitoring wells, as compared to the Spring 2012 results which may be due to the increased depth to groundwater. Concentrations increased at MWS3 from 2,592 $\mu\text{g/l}$ to 5,668 $\mu\text{g/l}$. 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 5-6**).

The SVE/AAS systems continue to operate during the addition of indigenous aerobic microbes known to degrade petroleum hydrocarbons, which are being added via the AAS infrastructure as part of a pilot study. The six month pilot study will determine increasing the population of the existing microbial strains can accelerate site cleanup.

Hydrocarbon concentrations in the extracted vapor ranged from 24.1 ppm to 310.1 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

LNAPL was not observed during the monitoring period (**Appendix A, Table A-2**). Historic LNAPL observations and water level gauging is shown in **Appendix D, Table D-1**. There was a total of 0 gallons of LNAPL recovered during the quarter. 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

With the conversion of vertical extraction wells to horizontal extraction throughout the area for systems A and B, the SVE portion of System A was deactivated and should remain off as a backup system should repairs be needed on the SVE portion of System B. There was no removal of measurable gasoline equivalent liquid 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 5-7**.

5.4.2.2 Area 3805 - System B

Combined extraction flow rates (including dilution air) and vacuum pump discharge concentrations averaged 594.1 cfm and 24.6 ppm, respectively, during the monitoring period (**Appendix D, Table D-3**). These concentrations equate to the removal of 26.76 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 B are represented in **Figure 5-8**.

5.4.2.3 Area 3805 - System C

Combined extraction flow rates (including dilution air) and vacuum pump discharge concentrations averaged 526.5 cfm and 0.1 ppm, respectively, during the monitoring period (**Appendix D, Table D-4**). These concentrations equate to the removal of 0.10 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 5-9**.

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. With concurrence from NYSDEC, the system remained inactive 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 5-10**.

5.4.3 Groundwater Treatment

5.4.3.1 Area 3805 - System A

There was no extracted groundwater treated by System A 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 3,311 gallons of groundwater were extracted through System B at an average flow rate of 0.080 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

There was no extracted groundwater treated by System C during the monitoring period (**Table 3-9**). The extracted groundwater has been historically treated by the air stripper system and discharged to the POTW.

5.4.3.4 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

Following the extraction well modifications for the Area 3805 A and B SVE systems in March 2012, the active horizontal extraction wells were connected to one vacuum blower. Extracted vapor concentrations ranged from 6.0 ppm to 88.2 ppm and extraction vacuum ranged between 8.0 to 10.0 inches of mercury. The primary remediation units, prior to March 2012, were 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**. A five month nutrient application trial began in December 2011, in which a mixture of nitrogen: phosphorous: potassium was introduced into the subsurface via select AAS injection points to enhance bacterial growth and stimulate biodegradation. The results from the Fall 2012 Sampling Event illustrate total BTEX concentration increase in monitoring wells, as compared to the Spring 2012 results. Concentrations increased at 3805-016 from 16,463 µg/l to 18,325 µg/l and 3805-MWS5 increased from 971.64 µg/l to 5,332.2 µg/l. Additionally, the results from the Fall 2012 Sampling Event indicate a decrease in total BTEX concentration at some perimeter monitoring wells. 3805-MWS8 decreased from 1,061.2 µg/l to non-detect and OSL-MW3 decreased from 168.17 µg/l to non-detect (**Figure 5-11**).

The AAS systems, for 3805 A/B/D, were deactivated in March 2013 and indigenous anaerobic microbes known to degrade petroleum hydrocarbons are being added via the AAS infrastructure as part of a pilot study. The six month pilot study will determine if the site can sustain biodegradation by increasing the population of the existing microbial strains.

5.5 Army Air Force Exchange Service Station (Building P-2140)

5.5.1 Light Non-Aqueous Phase Liquids

LNAPL was not observed in any of the extraction wells during the monitoring period (**Appendix E**). Historic LNAPL observations and water level gauging is shown in **Table E-1**. If LNAPL are encountered during gauging events, it is removed by bailer or the extraction system.

5.5.2 Soil Vapor Extraction/Dual Phase Extraction

Combined extraction flow rates (including dilution air) and vacuum pump discharge concentrations could not be calculated due to this system being offline during the monitoring period (**Appendix E, Table E-2**). As a result, there was no vapor recovery or removal of measurable gasoline equivalent liquid this quarter (**Table 3-11**). The trends in vacuum pump discharge concentration and cumulative contaminant recovery for the system are represented in **Figure 5-12**.

5.5.3 Groundwater Treatment

When activated, the extraction system was adjusted 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.

5.5.4 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**. A five month nutrient application trial began in December 2011, in which a mixture of nitrogen: phosphorous: potassium was introduced into the subsurface via select AAS injection points to enhance bacterial growth and stimulate biodegradation.

5.5.5 Source Area Ozone Treatment

Ozone treatment of residual hydrocarbon impact within the subsurface at the AAFES Station (Building P-2140) was deactivated in August 2011. A new mobile ozone treatment system was delivered to the site, and became fully operational on 23 March 2012 (**Appendix E, Table E-3**).

The Fall 2012 Sampling Event results indicate a total BTEX contaminant increase in monitoring wells, 2140-MW07 to 8,492.4 µg/l from 6,551.1 µg/l in Spring 2012, along with 2140-MW02 to 1,617.2 µg/l from 1,572.5 µg/l in Spring 2012 (**Figure 5-13**).

6.0 SUMMARY AND DISCUSSION

System operation and performance monitoring activities were completed at each site by Plexus during the reporting period (February 2013-April 2013). A list of the additional actions performed during site visits, beyond routine data collection, is presented in **Appendix F**. 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. A continuous electrical power supply was installed in February 2012, which will allow cycling of the ozone system to continue the contaminant reduction during inclement weather. A five month nutrient application of a mixture of nitrogen: phosphorus: potassium was approved by NYSDEC in conjunction with active ozone injection. The nutrient application trial began in December 2011 and concluded in April 2012, prior to the basewide sampling event. A sampling event was conducted in February 2012 to evaluate the effects of the nutrient application trial. Based on the February 2012 sampling results, total BTEX concentrations in monitoring well 1295-MW30 decreased slightly from 4,801.7 µg/l to 4,018.5 µg/l. The site continued to be treated under an active ozone injection system during the nutrient application trial. The Spring 2012 Groundwater Sampling Event occurred approximately one month following the last addition of the nutrient mixture. Groundwater results indicated an increase in total BTEX concentrations in 1295-MW30 from the February 2012 results to 4,439.63 µg/l. Additionally, total BTEX concentrations increased in the upgradient monitoring well, 1295-MWS27. Results from the Fall 2012 Groundwater Sampling Event continued to illustrate an increase in total BTEX concentrations at 1295-MW30, but a decrease at 1295-MWS27. It appears that the active ISCO treatment, ozone injection, is effective at controlling the contamination at the current concentrations at 1295-MW30 and that the site did not benefit from the addition of a nitrogen rich amendment. The site may benefit from the addition of ISCO compounds in conjunction with ozone injection.

6.2 Area 1595

The SVE system operated 100 percent of the 50 operational days during the monitoring period. The AAS system also operated 100 percent of the time during the monitoring period, excluding scheduled downtime.

A combined total of approximately 2.82 gallons of gasoline equivalent (vapor phase) were recovered from the subsurface from February 2013 through April 2013. A cumulative total of 325.59 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. There was 0 gallons of LNAPL recovered during the monitoring period. If LNAPL is encountered, removal is conducted by bailer or the extraction system.

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. An extended nutrient application of a mixture of nitrogen: phosphorus: potassium was approved and initiated beginning December 2011 through April 2012 without the addition of oxygen via the AAS system to determine if the nutrients were effectively enhancing bioremediation in an oxygen depleted environment. A comparison of the groundwater results collected prior to, during and following the 5 month period indicated a fluctuation in total BTEX concentrations and an increase in 1595-MWS7 from 273.3 µg/l (Q3, 2011) to 1,951.7 µg/l (Q2, 2012). The results indicate that the site did not benefit from the sole application of the nitrogen rich amendment. The SVE/AAS systems remained active following the Spring 2012 Groundwater Sampling Event. The groundwater results from the Fall 2012 Sampling Event illustrated a decrease in total BTEX concentrations at 1595-MWS7 to 79.0 µg/l. The concentrations at other monitoring locations continue to fluctuate indicating that the benefit of operating the active SVE/AAS systems is low. Based on the diminished effects of the active SVE/AAS remediation systems, a pilot test was developed to identify, grow and inoculate indigenous, petroleum degrading microbes via the AAS infrastructure. Currently, each AAS injection point receives a monthly inoculum of 10 gallons of microbe and sulfate enhanced amendment. With minor modifications to the UIC permit and injection volumes, the other locations that would benefit from the inoculum are 1595-PZ13, 1595-PZ12, 1595-MWS2, 1595-OBG2, 1595-PZ9, 1595-PZ5, 1595-MWS7 and the 13 former ozone injection points. These locations illustrate the hot-spot treatment technique that has shown to be beneficial at other sites.

6.3 Area 1795

SVE System A operated 98 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, 99, and 100 percent of the time during the monitoring period.

A combined total of approximately 66.21 gallons of gasoline equivalent (vapor phase) were recovered from the subsurface from February 2013 through April 2013. A cumulative total of 2,218.03 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. There was 0 gallons of LNAPL recovered during the monitoring period. If LNAPL is encountered, removal is conducted by bailer or the extraction system.

By changing the extraction leg vacuums and connections, thus isolating treatment to the contaminant “hot-spot”, 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. A five month nutrient application trial of a mixture of nitrogen: phosphorus: potassium was approved by NYSDEC in conjunction with active

SVE/AAS systems. The nutrient application began in December 2011 and concluded in April 2012, prior to the basewide sampling event. Additionally, a sampling event of selected monitoring wells occurred in February 2012 and results indicated an increase in total BTEX concentrations at monitoring wells 1795-MWS3 and 1795-MWS7. It does not appear that the site benefited from the nutrient mixture and the AAS/SVE systems continue to operate.

Although the areal extent of the plume appears to be decreasing, the Fall 2012 Groundwater Sampling Event total BTEX concentrations at the “hot-spots” at 1795-MWS7 and 1795-MWS3 increased. As the system continues to recover organic vapors, a pilot test was developed to identify, grow and inoculate indigenous, petroleum degrading microbes via the AAS infrastructure. Currently, selected AAS injection points within the hot-spots receives a monthly inoculum of 10 gallons of aerobic microbes. Both the SVE and AAS systems continue to operate to assist in mobilizing oxygen and recovering organic vapors. With minor modifications to the UIC permit and injection volumes, the other locations that would benefit from the inoculum are 1795-MWS7, 1795-RW3, 1795-PZ1, 1795-MWS6, 1795-PZ6, 1795-PZ16, 1795-PZ3, 1795-PZ5, 1795-RW1, 1795-MWS5, 1795-PZ15 and the six former ozone injection points. These locations illustrate the hot-spot treatment technique that has been shown to be beneficial at this site. The SVE/AAS systems should continue to operate and use of microbial augmentation should be evaluated.

6.4 Areas 3805 and 1995

SVE System B operated at 88 percent of the time during the monitoring period, excluding scheduled downtime. The SVE portion of System C operated at 99 percent during the monitoring period. AAS Systems B, C, and D operated 83, 100, and 100 percent of the time during the monitoring period. 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. 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 26.86 gallons of gasoline equivalent (vapor phase) were recovered from the subsurface from February 2013 through April 2013. A cumulative total of 6,011.89 gallons of gas equivalent (vapor phase) and 26 gallons of LNAPL have been removed from the subsurface since operation of the SVE and AAS systems began in October 2003. There was 0 gallons of LNAPL recovered during the monitoring period. If LNAPL is encountered, removal is conducted by bailer or the extraction system.

The SVE 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 AAS 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.

A five month nutrient application of a mixture of nitrogen: phosphorus: potassium was approved by NYSDEC in conjunction with active systems. The nutrient application began in December 2011 and concluded in April 2012, prior to the basewide sampling event. Comparison of the analytical results from the samples collected prior to, during and after application indicate that the sites did not benefit from the nitrogen rich amendment.

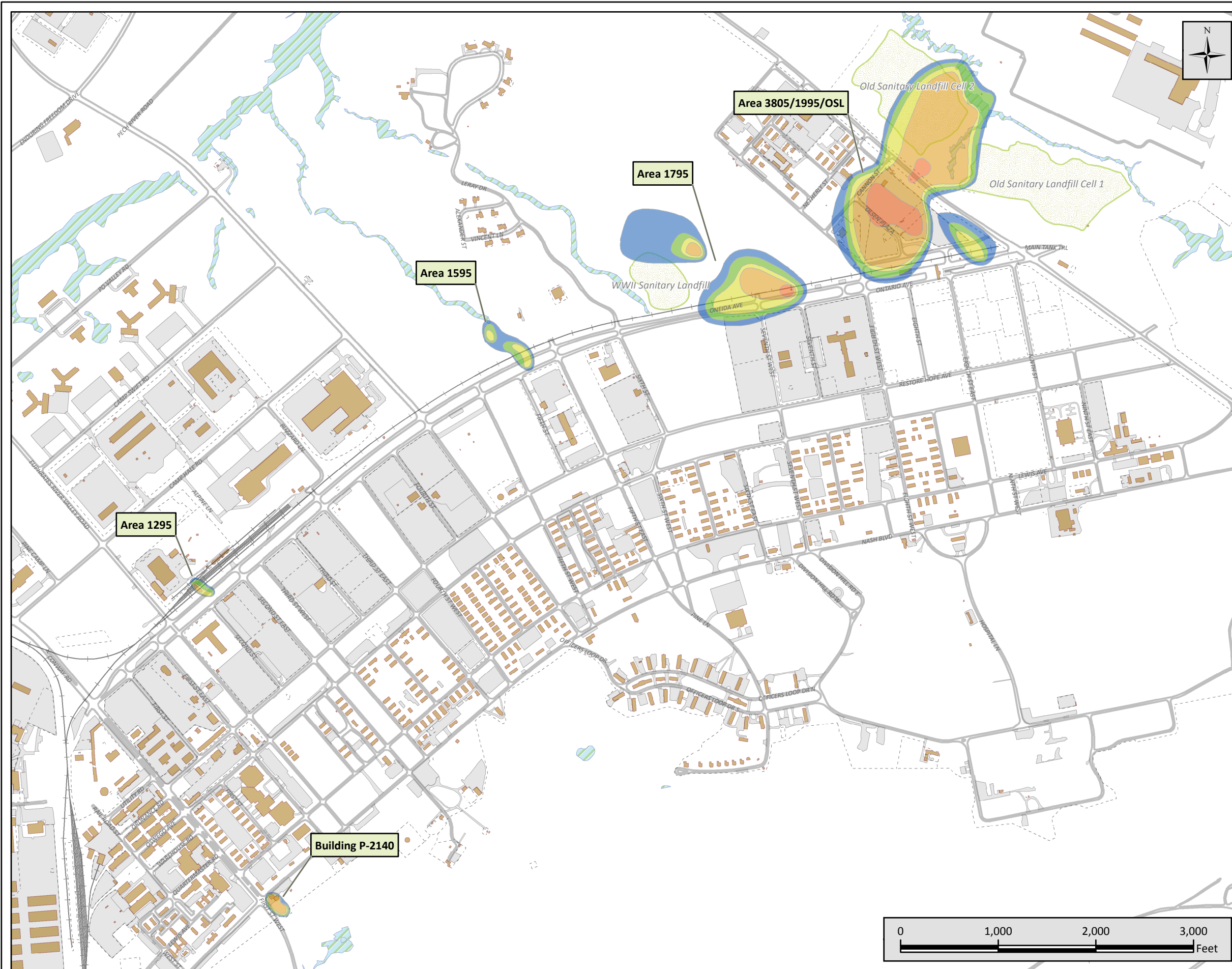
Following the March 2012 modification of selected vertical SVE wells to horizontal SVE wells, the SVE system began extracting more organic vapors from the area. Based on the diminished effects of the active SVE/AAS remediation systems, a pilot test was developed to identify, grow and inoculate indigenous, petroleum degrading microbes via the AAS infrastructure. Currently, selected AAS injection points receives a monthly inoculum of 10 gallons of microbe and sulfate enhanced amendment. With minor modifications to the UIC permit and injection volumes, the other locations that would benefit from the inoculum are 1995-MS9, 3805-003, 3805-002, 3805-PZ7, 3805-PZ14, and 3805-RW5. Additionally, there should be considered for vertical extraction wells if they are individually deactivated. These locations illustrate the hot-spot treatment technique that has shown to be beneficial at other sites. The SVE system should continue to operate and use of microbial augmentation should continue.

6.5 Army Air Force Exchange Service Station (Building P-2140)

The DPE and AAS systems did not operate during the reporting period, due to the continuous operation of the mobile ozone treatment system. No gasoline equivalent (vapor phase) were recovered from the subsurface from November 2012 through January 2013. A cumulative total of 2,401.23 gallons of gas equivalent (vapor phase) have been removed from the subsurface since operation of the DPE system began in February 2002. LNAPL was not observed in the extraction wells during gauging events.

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. A five month nutrient application of a mixture of nitrogen: phosphorus: potassium was approved by NYSDEC in conjunction with active systems. The nutrient application began in December 2011 and concluded in April 2012, prior to the basewide sampling event. Comparison of the analytical results from the samples collected prior to, during and after application indicate that the sites did not benefit from the nitrogen rich amendment, and ozone treatment should continue at the site. The site may benefit from the addition of ISCO compounds in conjunction with ozone injection.

FIGURES



Legend

- Fence Line
 - Rail Road
 - Paved Roadline
 - Landfill Site
 - Wetlands
 - Building
 - Paved Area
- Fall 2012 BTEX Plume**
- 1 µg/L
 - 10 µg/L
 - 100 µg/L
 - 1,000 µg/L
 - 10,000 µg/L

Abbreviation Key:
µg/L = micrograms per liter



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

Created By: BAB
Date: June 2013

FIGURE 1-1

Site Location Map

Quarterly Report of Progress (Feb 2013 - April 2013)
Operations and Maintenance
Remediation Systems for Gasoline Alley
and Army Air Force Exchange Service Station
Fort Drum, New York



Legend

- ◆ Area 1595 Monitoring Wells
 - Ozone Injection Points
 - ⊗ Air Sparge Wells
 - ⊙ Soil-Vapor Extraction Wells
 - Injection/Application Wells
 - System Pipes
 - ▭ Former UST
 - - - Fence Line
 - + Rail Road
 - Paved Road
 - Unpaved Road
 - ▨ Wetlands
 - Building
 - ▭ Paved Area
- Fall 2012 BTEX Plume**
- 1 µg/L
 - 10 µg/L
 - 100 µg/L

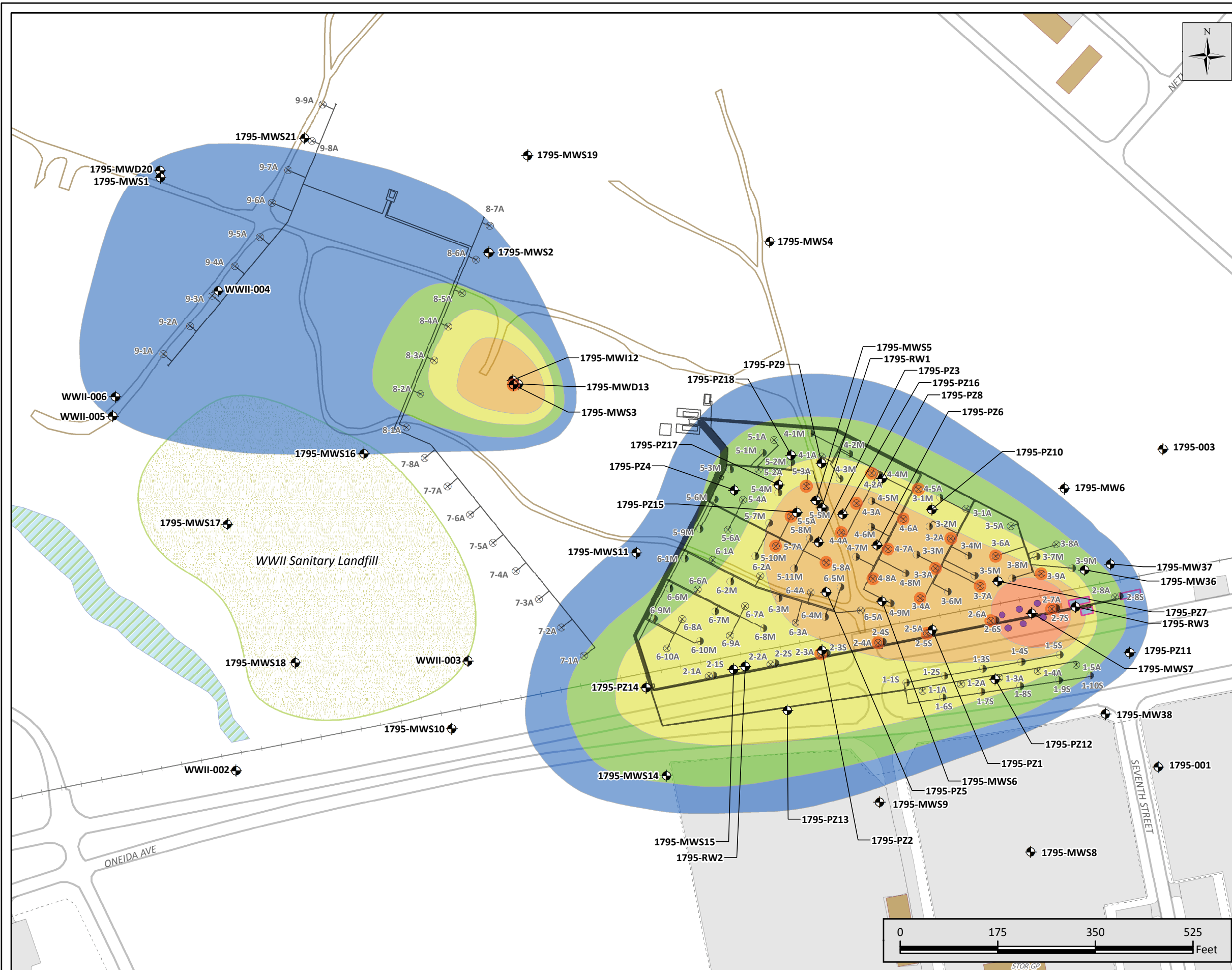

 4501 Ford Ave.
 Suite 1200
 Alexandria, VA 22302
 (P) 703.820.3339
 (F) 703.845.8568

Created By: BAB
Date: June 2013

FIGURE 3-1

Area 1595 Injection/Application Well Locations

Quarterly Report of Progress (Feb 2013 - April 2013)
 Operations and Maintenance
 Remediation Systems for Gasoline Alley
 and Army Air Force Exchange Service Station
 Fort Drum, New York



Legend

- ◆ Area 1795 Monitoring Wells
- Ozone Injection Points
- ⊗ Air Sparge Wells
- ⊙ Soil-Vapor Extraction Wells
- Injection/Application Wells
- System Pipes
- ▭ Former UST
- - - Fence Line
- Rail Road
- Paved Road
- Unpaved Road
- ▨ Landfill Site
- ▨ Wetlands
- ▭ Building
- ▭ Paved Area

Fall 2012 BTEX Plume

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

25 years of excellence

PLEXUS
scientific

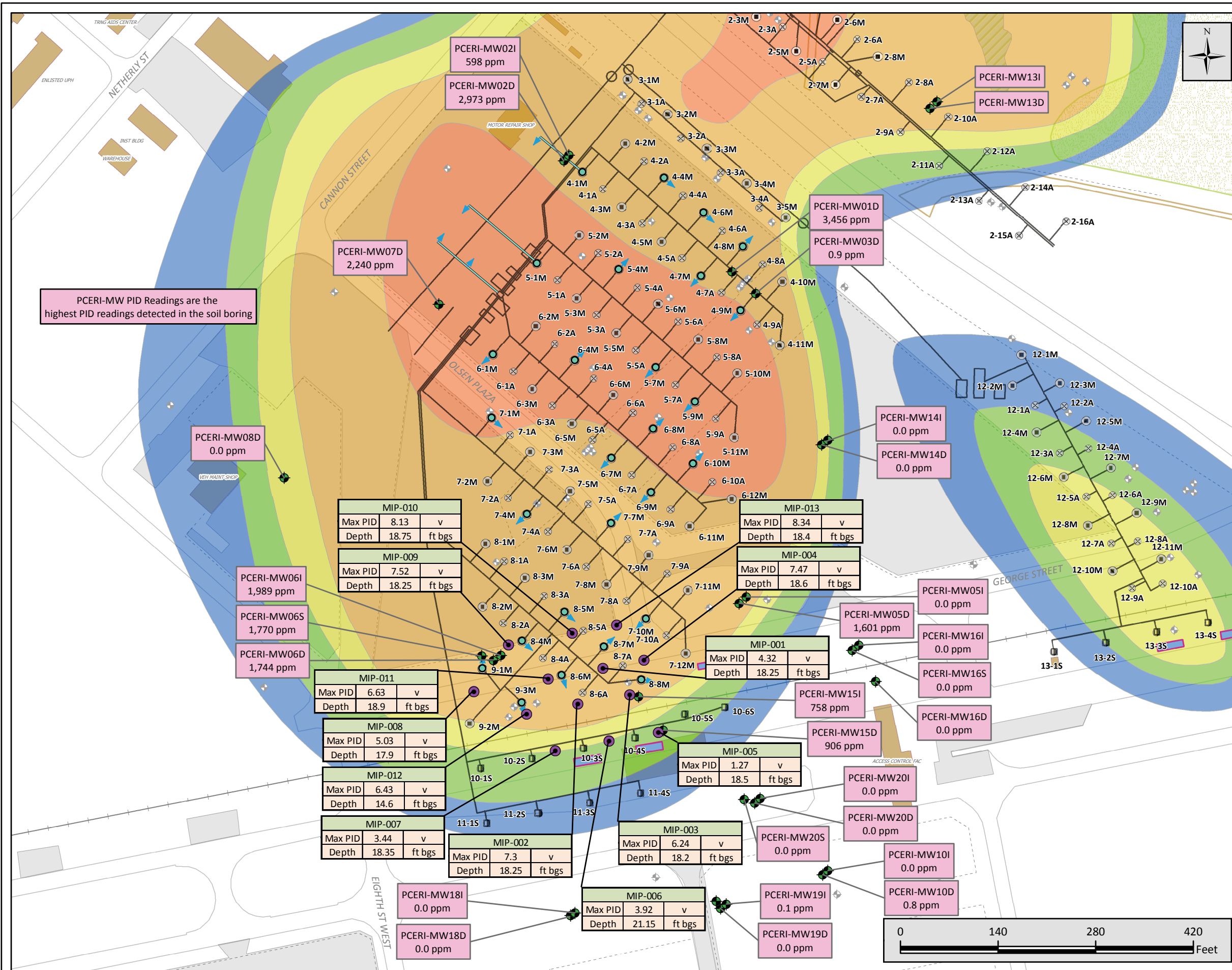
4501 Ford Ave.
Suite 1200
Alexandria, VA 22302
(P) 703.820.3339
(F) 703.845.8568

Created By: BAB
Date: June 2013

FIGURE 3-2

Area 1795 Injection/Application Well Locations

Quarterly Report of Progress (Feb 2013 - April 2013)
Operations and Maintenance
Remediation Systems for Gasoline Alley
and Army Air Force Exchange Service Station
Fort Drum, New York



Legend

- Monitoring Wells
- PCERI MW/Boring Locations
- MIP Locations
- Horizontal SVE Well
- Modification Locations
- Horizontal SVE Screens
- Horizontal SVE Laterals
- Air Sparge Wells
- Multi-phase Extraction Wells
- Soil-vapor Extraction Wells
- System Pipes & Structures
- Former UST
- Fence Line
- Rail Road
- Paved Road
- Unpaved Road
- Landfill Site
- Wetlands
- Building
- Paved Area

Fall 2012 BTEX Plume

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

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

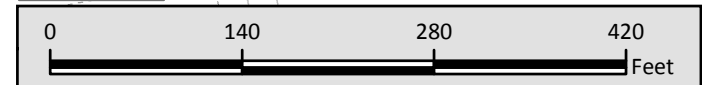
4501 Ford Ave.
 Suite 1200
 Alexandria, VA 22302
 (P) 703.820.3339
 (F) 703.845.8568

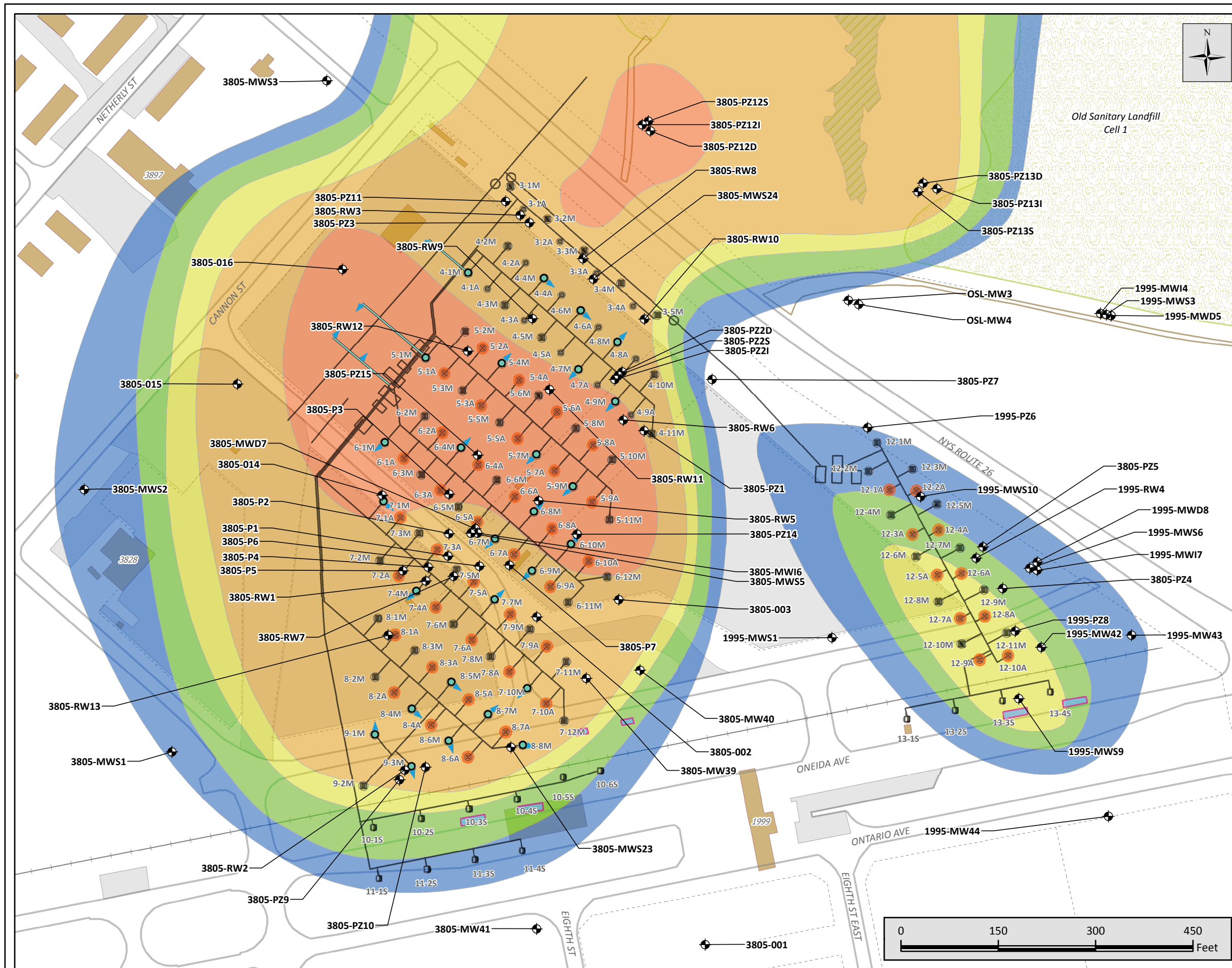
Created By: BAB
 Date: June 2013

FIGURE 3-3

PID Readings (PCE and MIP Work)

Quarterly Report of Progress (Feb 2013 - April 2013)
 Operations and Maintenance
 Remediation Systems for Gasoline Alley
 and Army Air Force Exchange Service Station
 Fort Drum, New York






Legend

- ◆ Area 3805 Monitoring Wells
- Horizontal SVE Well
- Modification Locations
- ▶ Horizontal SVE Screens
- Horizontal SVE Laterals
- ⊗ Air Sparge Wells
- ⊙ Multi-Phase Extraction Wells
- ⊕ Soil-Vapor Extraction Wells
- Injection/Application Wells
- System Pipes
- Former UST
- - - Fence Line
- Rail Road
- Paved Road
- - - Unpaved Road
- Landfill Site
- Wetlands
- Building
- Paved Area

Fall 2012 BTEX Plume

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

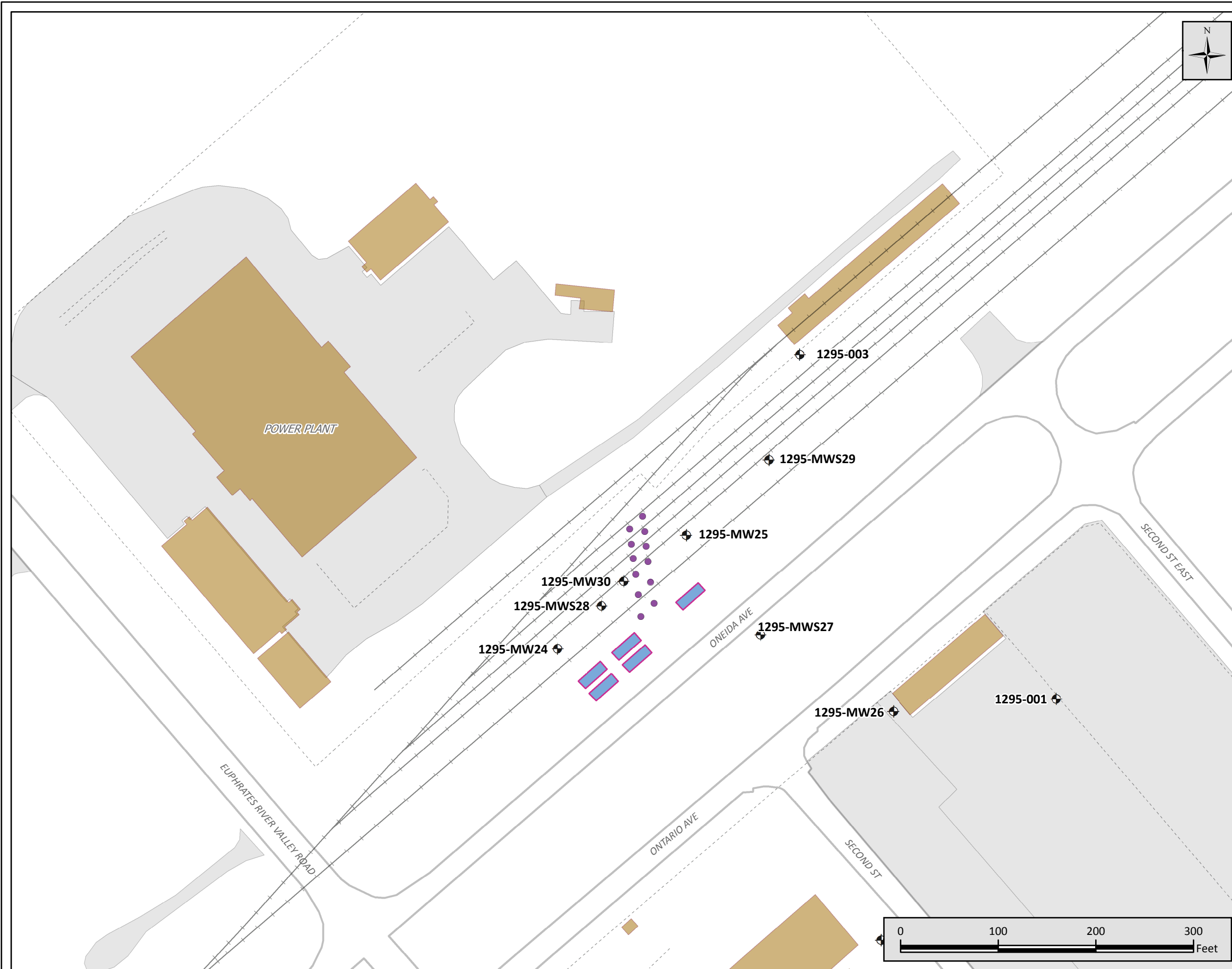

 4501 Ford Ave.
 Suite 1200
 Alexandria, VA 22302
 (P) 703.820.3339
 (F) 703.845.8568

Created By: BAB
Date: June 2013

FIGURE 3-4

Area 3805 Injection/Application Well Locations


Quarterly Report of Progress (Feb 2013 - April 2013)
Operations and Maintenance
Remediation Systems for Gasoline Alley
and Army Air Force Exchange Service Station
Fort Drum, New York



Legend

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

Abbreviation Key:
UST = Underground Storage Tank



PLEXUS
scientific

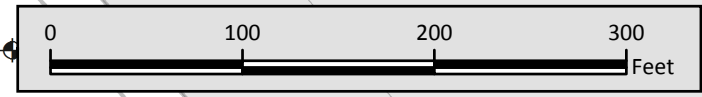
4501 Ford Ave.
Suite 1200
Alexandria, VA 22302
(P) 703.820.3339
(F) 703.845.8568

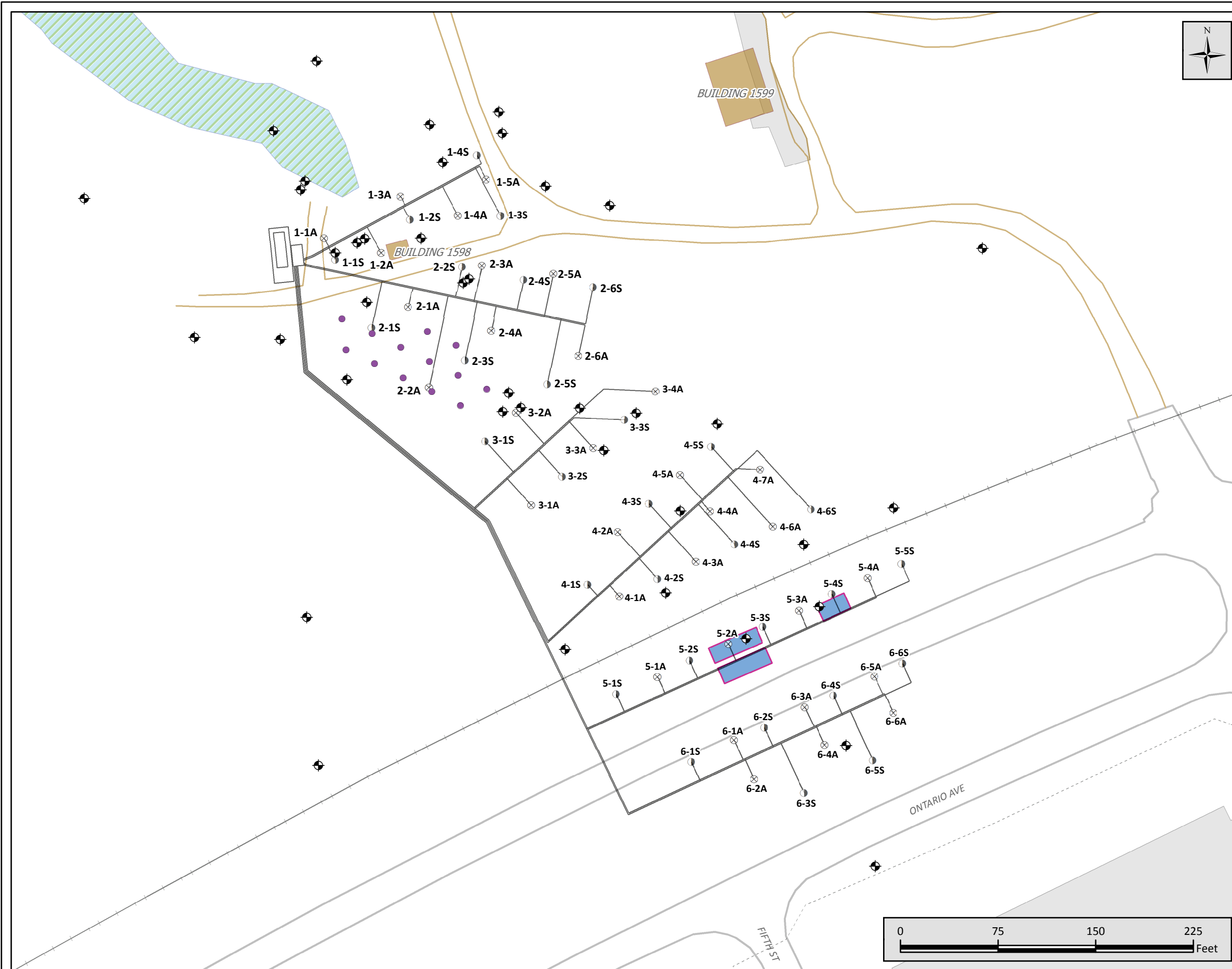
Created By: BAB
Date: June 2013

FIGURE 4-1

Area 1295, Gasoline Alley

Quarterly Report of Progress (Feb 2013 - April 2013)
Operations and Maintenance
Remediation Systems for Gasoline Alley
and Army Air Force Exchange Service Station
Fort Drum, New York






Legend

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

Abbreviation Key:
UST = Underground Storage Tank



PLEXUS
scientific

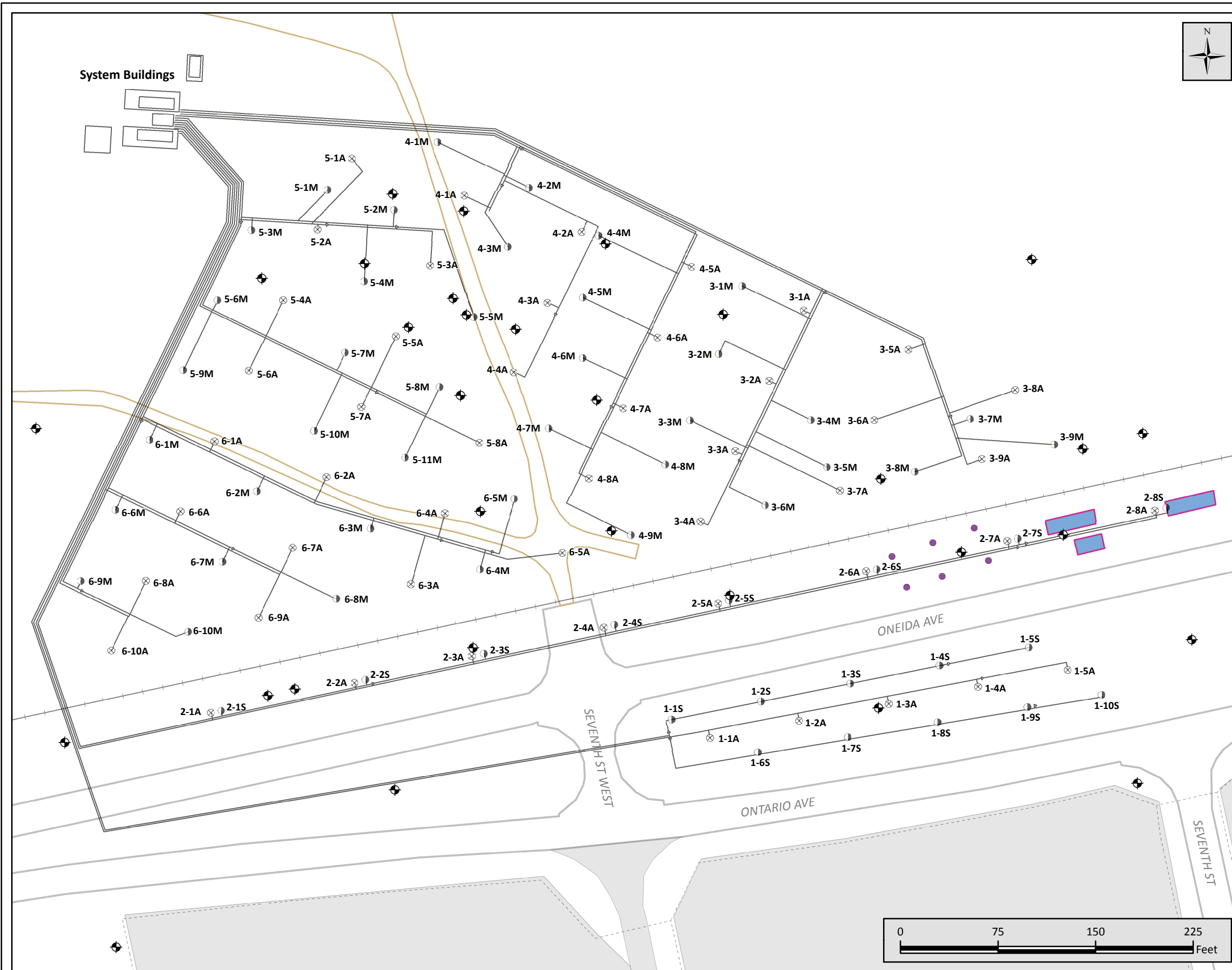
4501 Ford Ave.
Suite 1200
Alexandria, VA 22302
(P) 703.820.3339
(F) 703.845.8568

Created By: BAB
Date: June 2013

FIGURE 4-2


Area 1595

Quarterly Report of Progress (Feb 2013 - April 2013)
Operations and Maintenance
Remediation Systems for Gasoline Alley
and Army Air Force Exchange Service Station
Fort Drum, New York



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

Abbreviation Key:
 UST = Underground Storage Tank

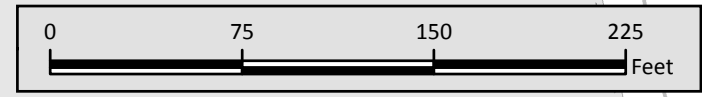

 4501 Ford Ave.
 Suite 1200
 Alexandria, VA 22302
 (P) 703.820.3339
 (F) 703.845.8568

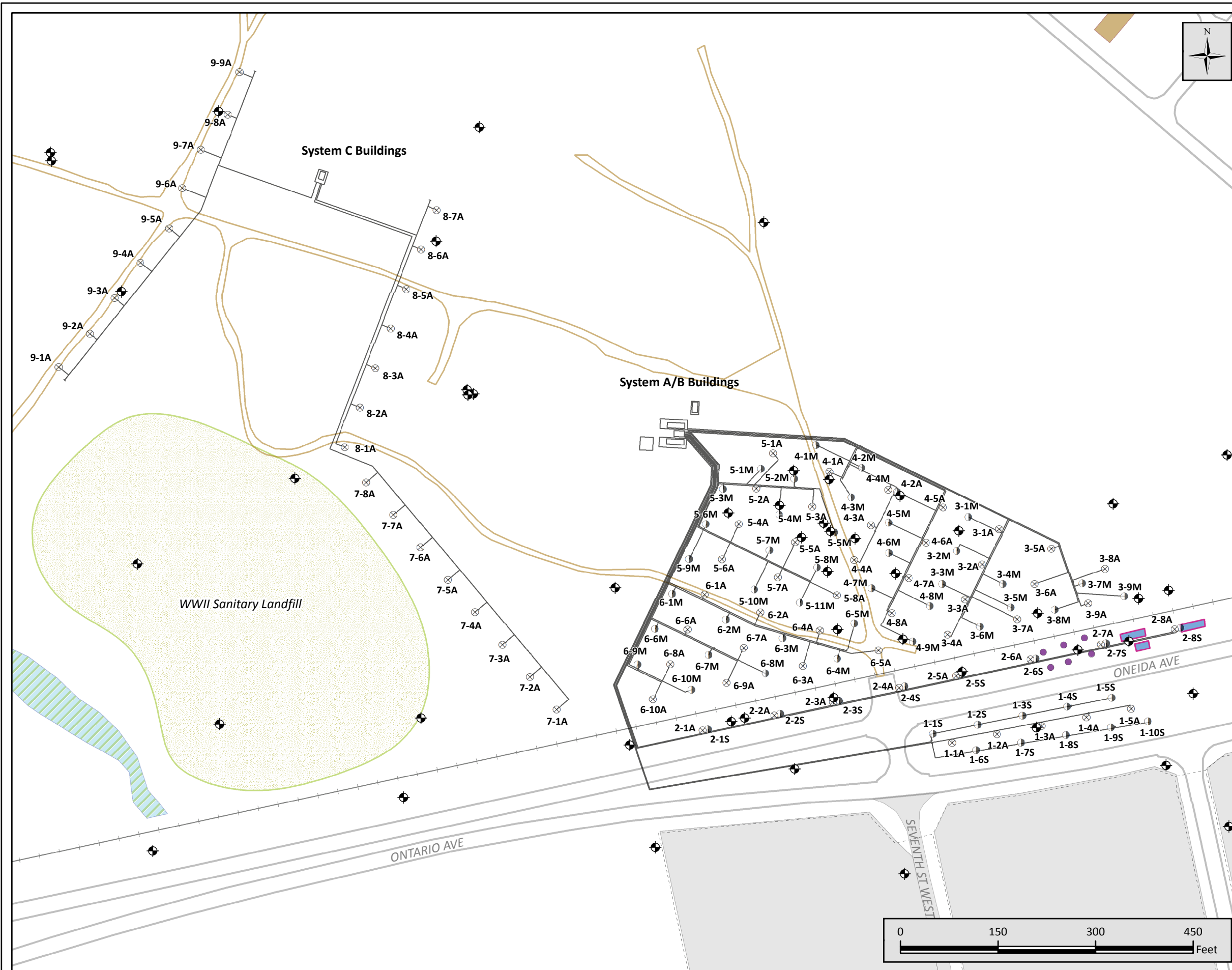
Created By: BAB
 Date: June 2013

FIGURE 4-3

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

Quarterly Report of Progress (Feb 2013 - April 2013)
 Operations and Maintenance
 Remediation Systems for Gasoline Alley
 and Army Air Force Exchange Service Station
 Fort Drum, New York





Legend

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

Abbreviation Key:
UST = Underground Storage Tank



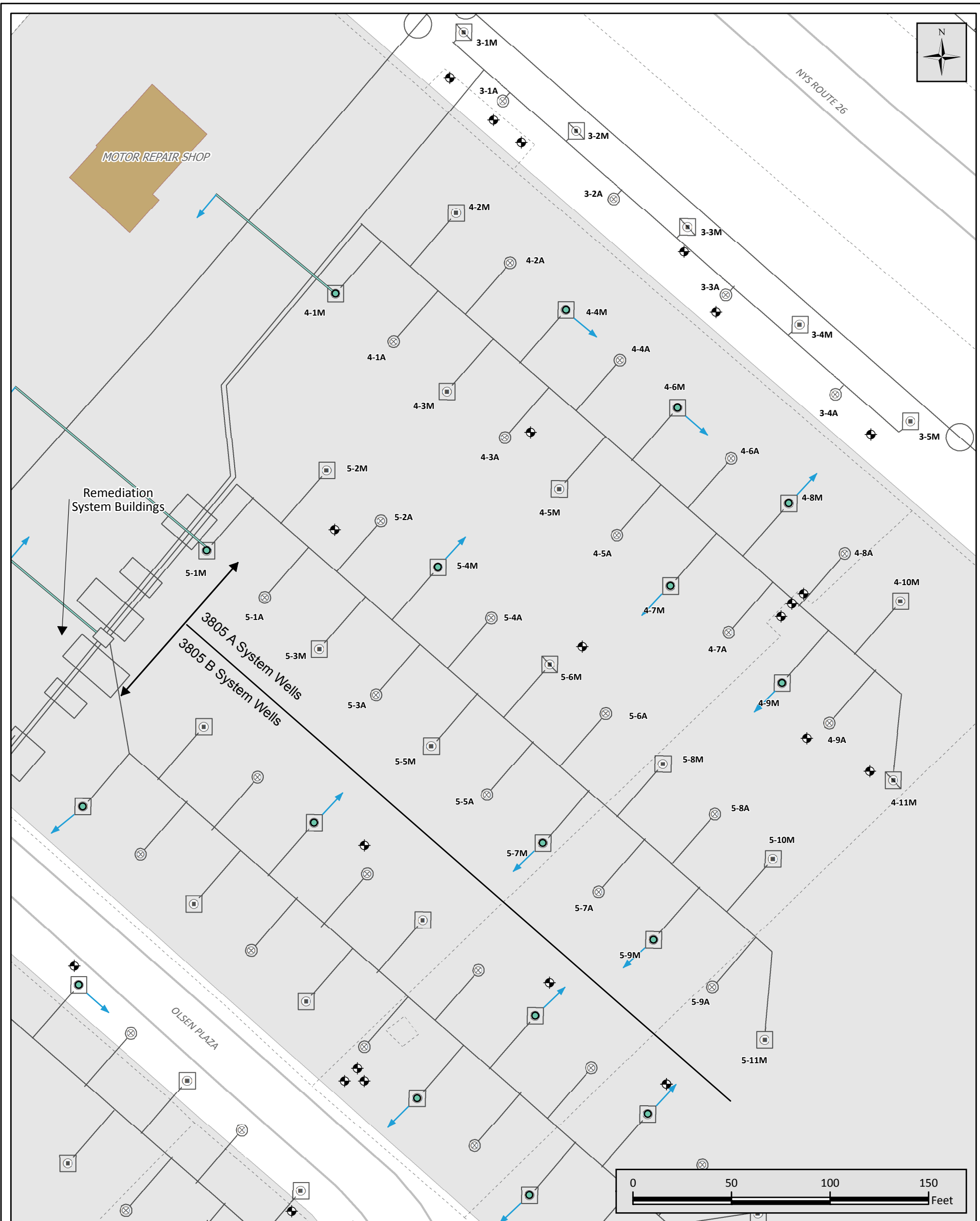
 4501 Ford Ave.
 Suite 1200
 Alexandria, VA 22302
 (P) 703.820.3339
 (F) 703.845.8568

Created By: BAB
 Date: June 2013

FIGURE 4-4

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

Quarterly Report of Progress (Feb 2013 - April 2013)
 Operations and Maintenance
 Remediation Systems for Gasoline Alley
 and Army Air Force Exchange Service Station
 Fort Drum, New York



Legend

- Monitoring Wells
- Horizontal SVE Well
- Modification Locations
- Horizontal SVE Screens
- Horizontal SVE Laterals
- Air Sparge Wells
- Multi-phase Extraction Wells
- Soil-vapor Extraction Wells
- System Pipes
- Former UST
- Fence Line
- Rail Road
- Paved Road
- Building
- Paved Area



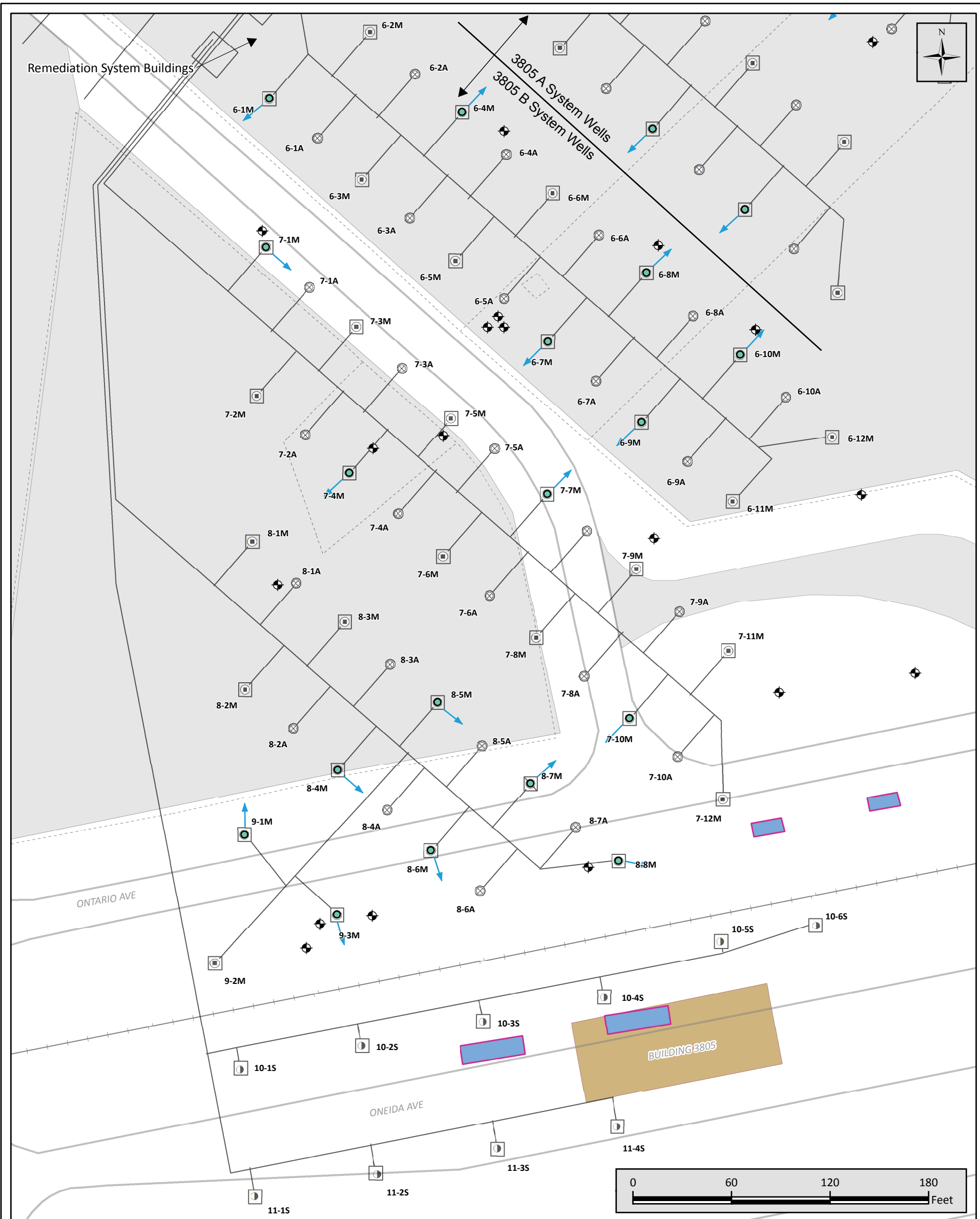
4501 Ford Ave.
Suite 1200
Alexandria, VA 22302
(P) 703.820.3339
(F) 703.845.8568

Created By: BAB
Date: June 2013

FIGURE 4-5


Area 3805 A, Gasoline Alley

Quarterly Report of Progress (Feb 2013 - April 2013)
Operations and Maintenance
Remediation Systems for Gasoline Alley
and Army Air Force Exchange Service Station
Fort Drum, New York



Legend

- ◆ Monitoring Wells
- Horizontal SVE Well Modification Locations
- ➔ Horizontal SVE Screens
- Horizontal SVE Laterals
- ⊗ Air Sparge Wells
- ⊕ Multi-phase Extraction Wells
- Soil-vapor Extraction Wells
- System Pipes & Structures
- Former UST
- - - Fence Line
- Rail Road
- Paved Road
- Building
- Paved Area

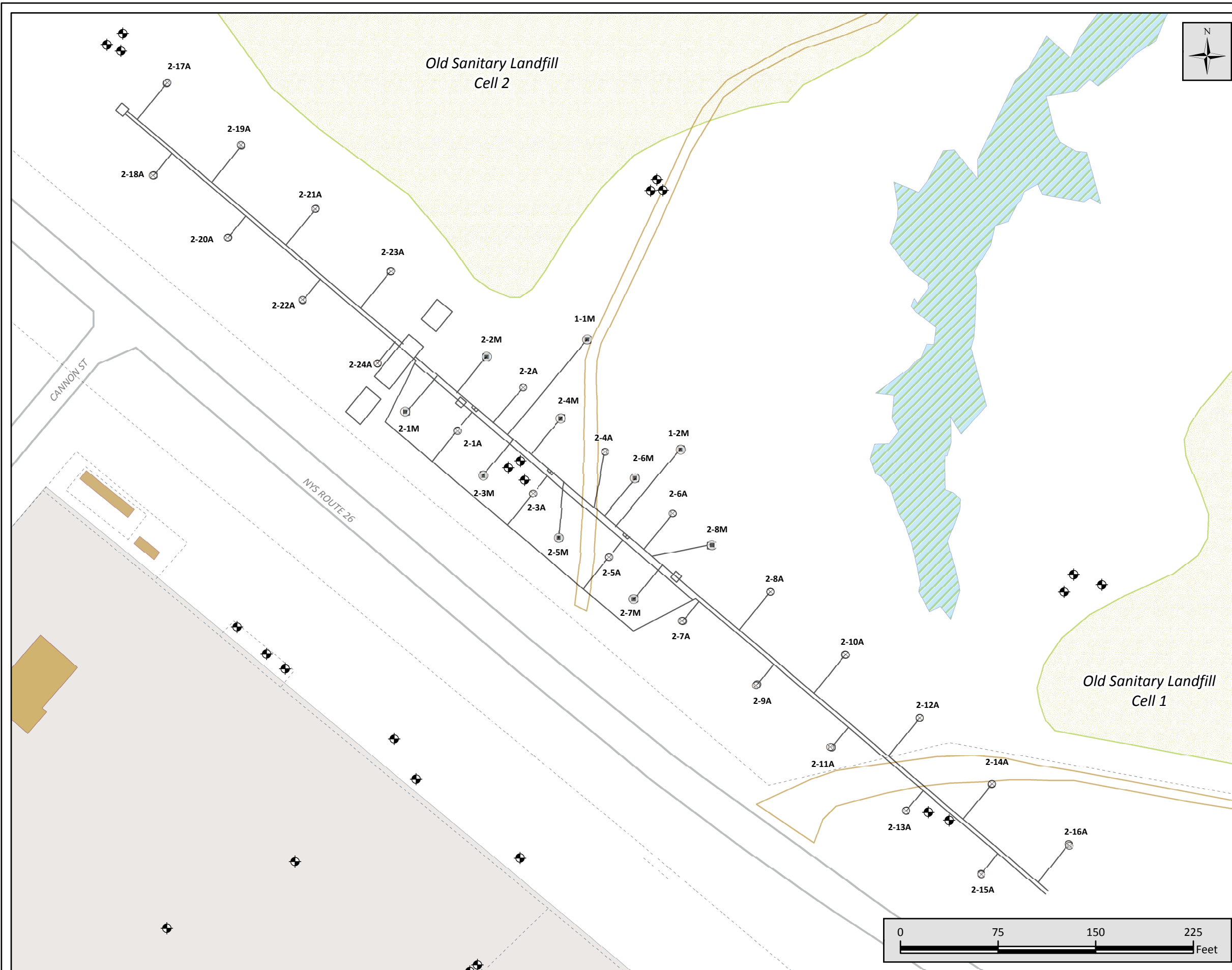

 4501 Ford Ave.
 Suite 1200
 Alexandria, VA 22302
 (P) 703.820.3339
 (F) 703.845.8568

Created By: BAB
Date: June 2013

FIGURE 4-6

Area 3805 B, Gasoline Alley

Quarterly Report of Progress (Feb 2013 - April 2013)
 Operations and Maintenance
 Remediation Systems for Gasoline Alley
 and Army Air Force Exchange Service Station
 Fort Drum, New York



- Legend**
- ◆ Monitoring Wells
 - ⊗ Air-Spurg Wells
 - ⊙ Multi-Phase Extraction Wells
 - System Pipes
 - Former UST
 - - - Fence Line
 - + Rail Road
 - Paved Road
 - Unpaved Road
 - Landfill Site
 - ▨ Wetlands
 - Building
 - Paved Area

Abbreviation Key:
UST = Underground Storage Tank


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

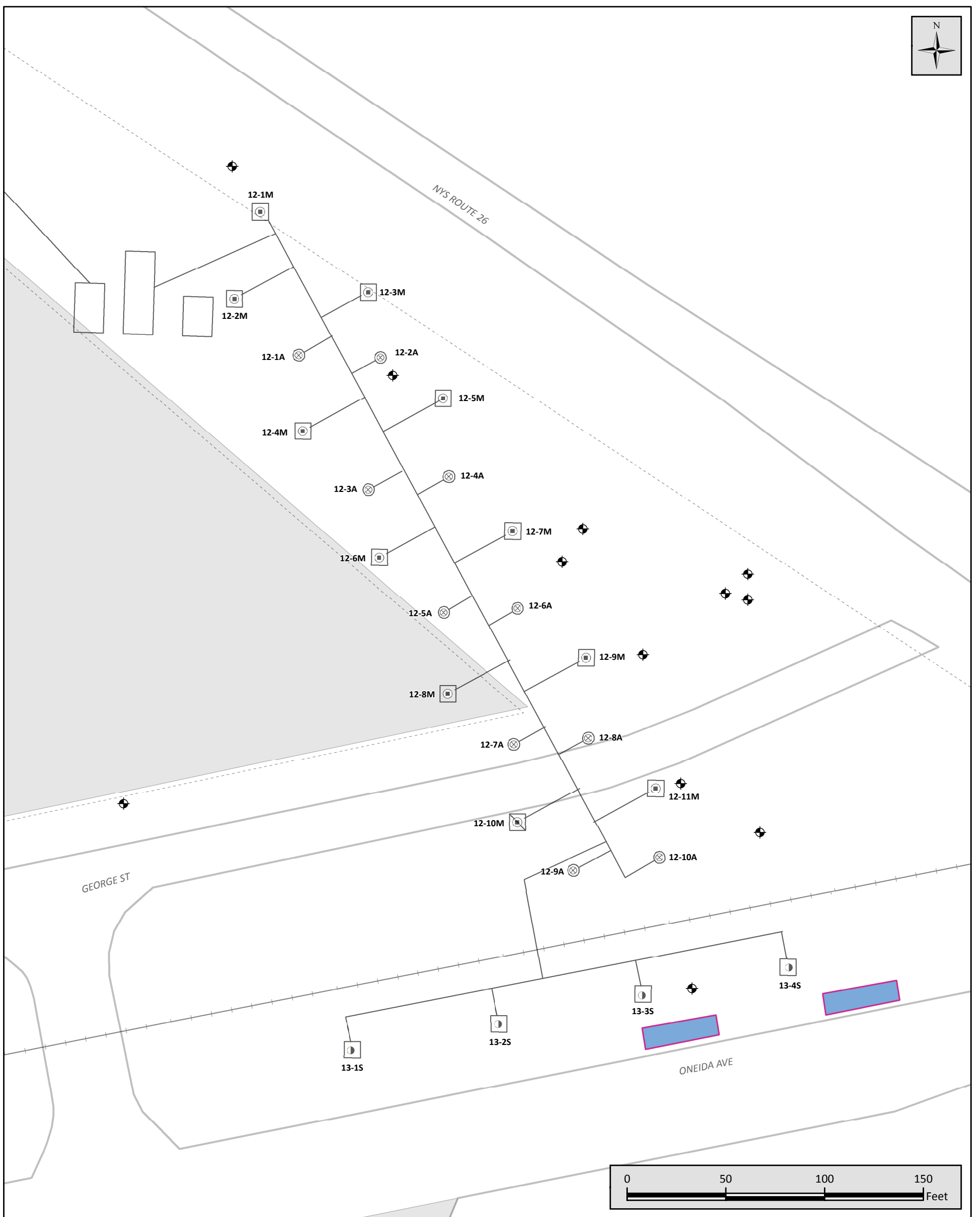
Created By: BAB
Date: June 2013

FIGURE 4-7











Area 3805 C, Gasoline Alley

Quarterly Report of Progress (Feb 2013 - April 2013)
 Operations and Maintenance
 Remediation Systems for Gasoline Alley
 and Army Air Force Exchange Service Station
 Fort Drum, New York





Legend

-  Monitoring Wells
-  Air Sparge Wells
-  Multi-phase Extraction Wells
-  Soil-vapor Extraction Wells
-  System Pipes
-  Former UST
-  Fence Line
-  Rail Road
-  Paved Road
-  Paved Area



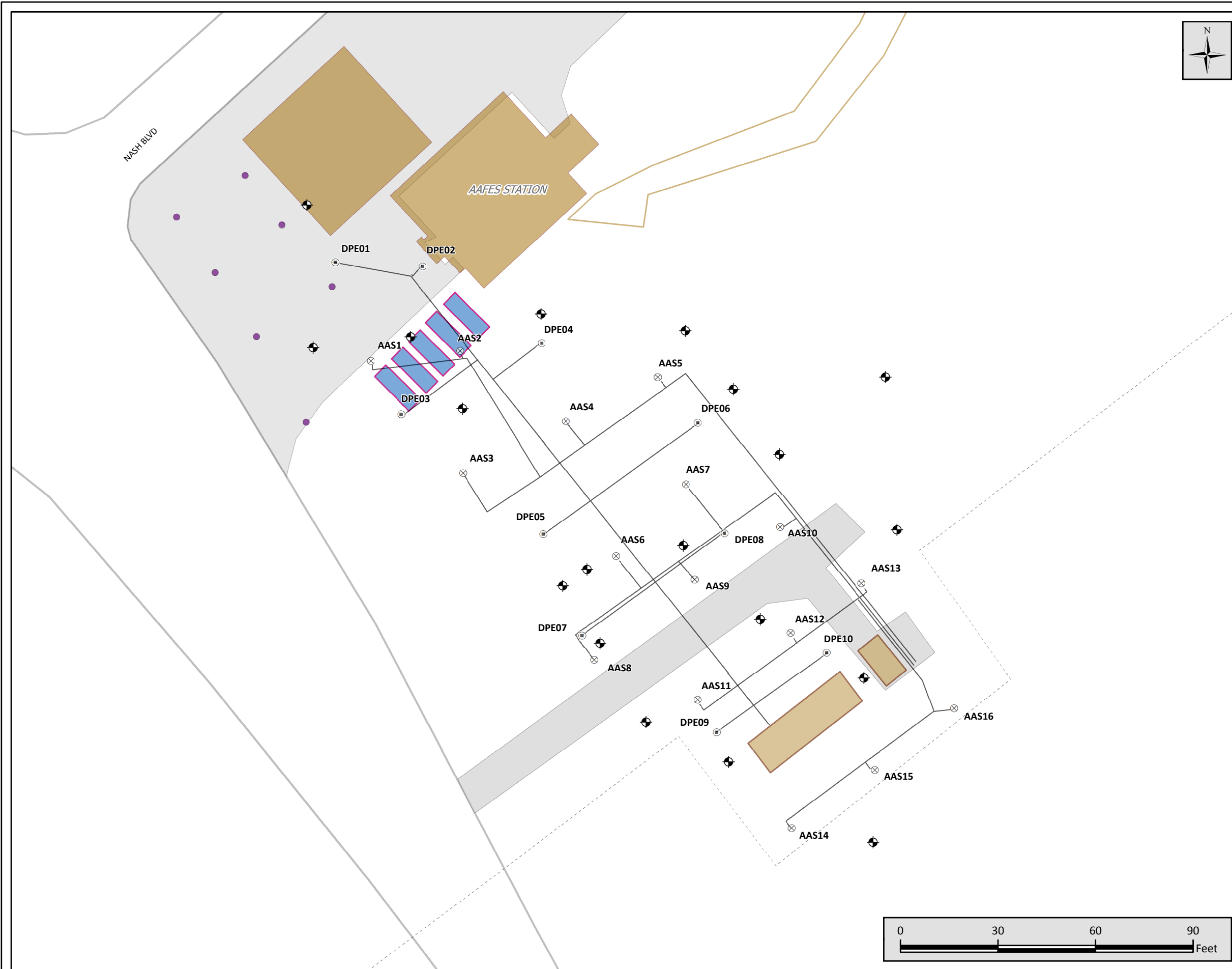
4501 Ford Ave.
Suite 1200
Alexandria, VA 22302
(P) 703.820.3339
(F) 703.845.8568

Created By: BAB
Date: June 2013

FIGURE 4-8

Area 3805 D/1995, Gasoline Alley

Quarterly Report of Progress (Feb 2013 - April 2013)
Operations and Maintenance
Remediation Systems for Gasoline Alley
and Army Air Force Exchange Service Station
Fort Drum, New York



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

Abbreviation Key:
 UST = Underground Storage Tank

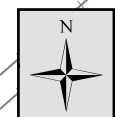
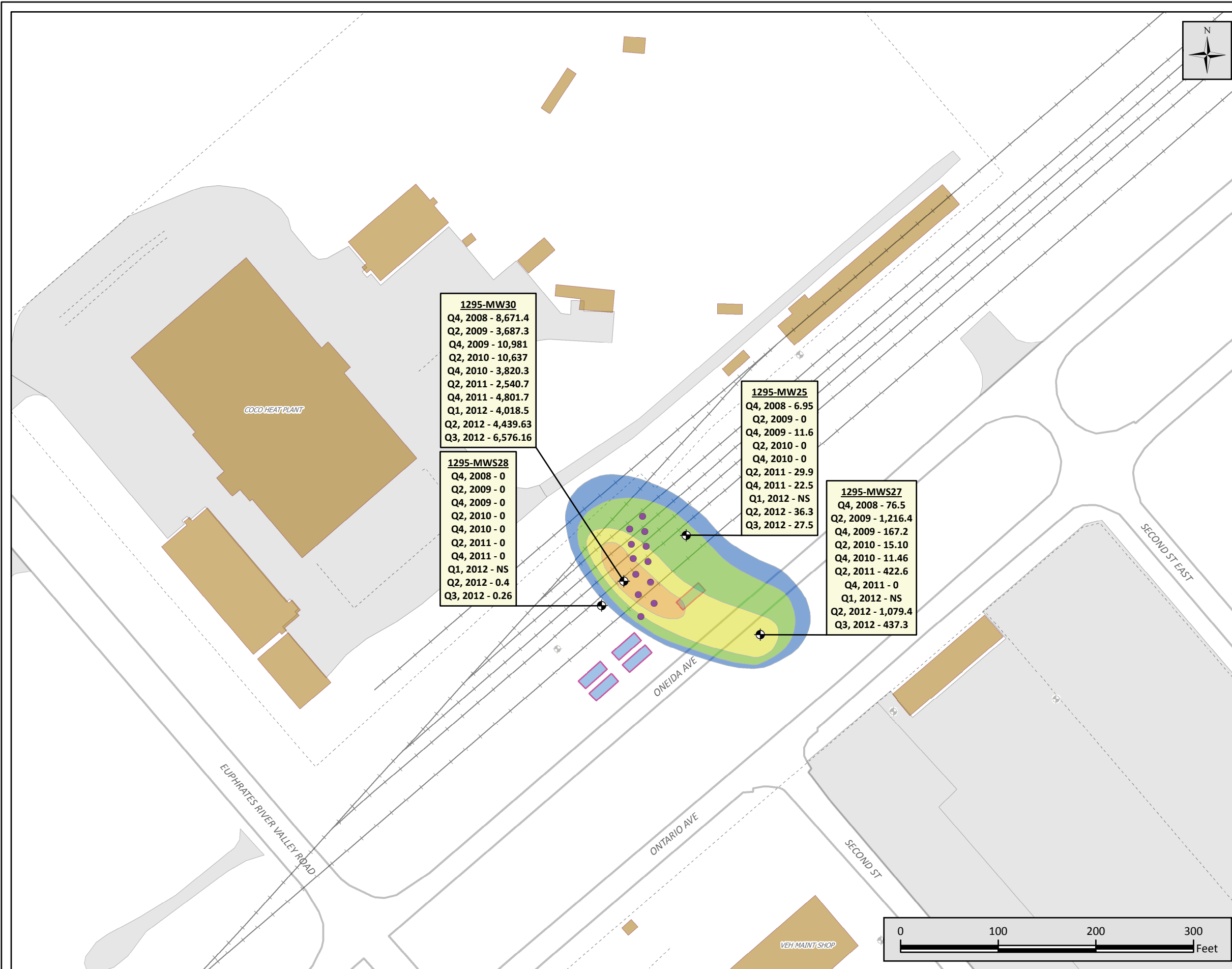
4501 Ford Ave.
 Suite 1200
 Alexandria, VA 22302
 (P) 703.820.3339
 (F) 703.845.8568

Created By: BAB
 Date: June 2013

FIGURE 4-9

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

Quarterly Report of Progress (Feb 2013 - April 2013)
 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
 - Ozone Injection Points
 - Former UST
 - - - Fence Line
 - Rail Road
 - Paved Road
 - Building
 - Paved Area
- Fall 2012 BTEX Plume**
- 1 µg/L
 - 10 µg/L
 - 100 µg/L
 - 1,000 µg/L

1295-MW30
 Q4, 2008 - 8,671.4
 Q2, 2009 - 3,687.3
 Q4, 2009 - 10,981
 Q2, 2010 - 10,637
 Q4, 2010 - 3,820.3
 Q2, 2011 - 2,540.7
 Q4, 2011 - 4,801.7
 Q1, 2012 - 4,018.5
 Q2, 2012 - 4,439.63
 Q3, 2012 - 6,576.16

1295-MWS28
 Q4, 2008 - 0
 Q2, 2009 - 0
 Q4, 2009 - 0
 Q2, 2010 - 0
 Q4, 2010 - 0
 Q2, 2011 - 0
 Q4, 2011 - 0
 Q1, 2012 - NS
 Q2, 2012 - 0.4
 Q3, 2012 - 0.26

1295-MW25
 Q4, 2008 - 6.95
 Q2, 2009 - 0
 Q4, 2009 - 11.6
 Q2, 2010 - 0
 Q4, 2010 - 0
 Q2, 2011 - 29.9
 Q4, 2011 - 22.5
 Q1, 2012 - NS
 Q2, 2012 - 36.3
 Q3, 2012 - 27.5

1295-MWS27
 Q4, 2008 - 76.5
 Q4, 2009 - 1,216.4
 Q2, 2010 - 167.2
 Q4, 2010 - 11.46
 Q2, 2011 - 422.6
 Q4, 2011 - 0
 Q1, 2012 - NS
 Q2, 2012 - 1,079.4
 Q3, 2012 - 437.3

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: BAB
 Date: June 2013

FIGURE 5-1

1295 BTEX Comparison

Quarterly Report of Progress (Feb 2013 - April 2013)
 Operations and Maintenance
 Remediation Systems for Gasoline Alley
 and Army Air Force Exchange Service Station
 Fort Drum, New York

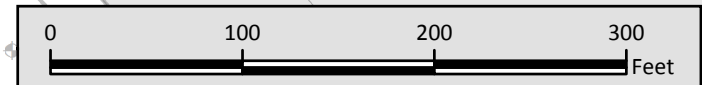
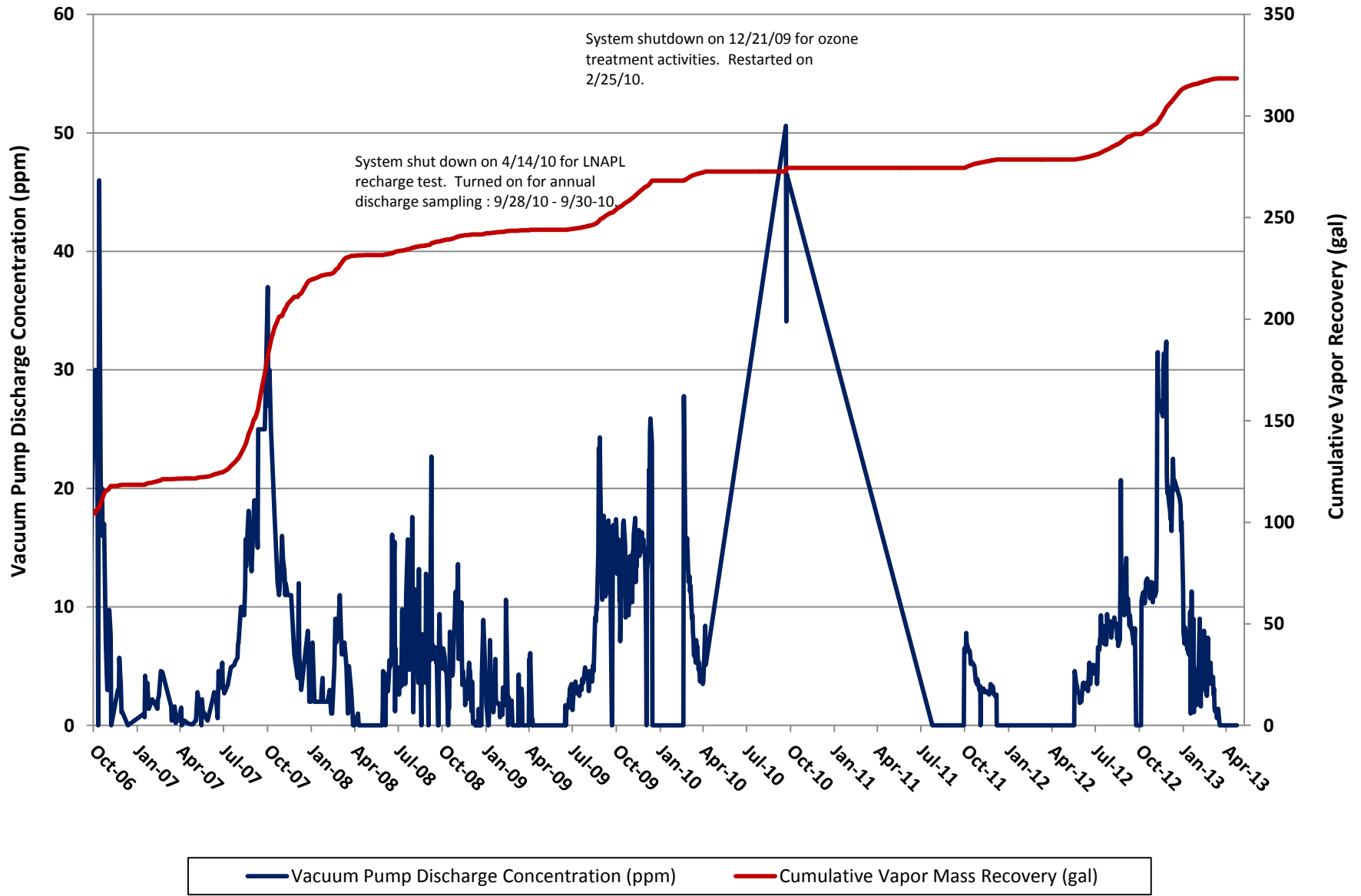
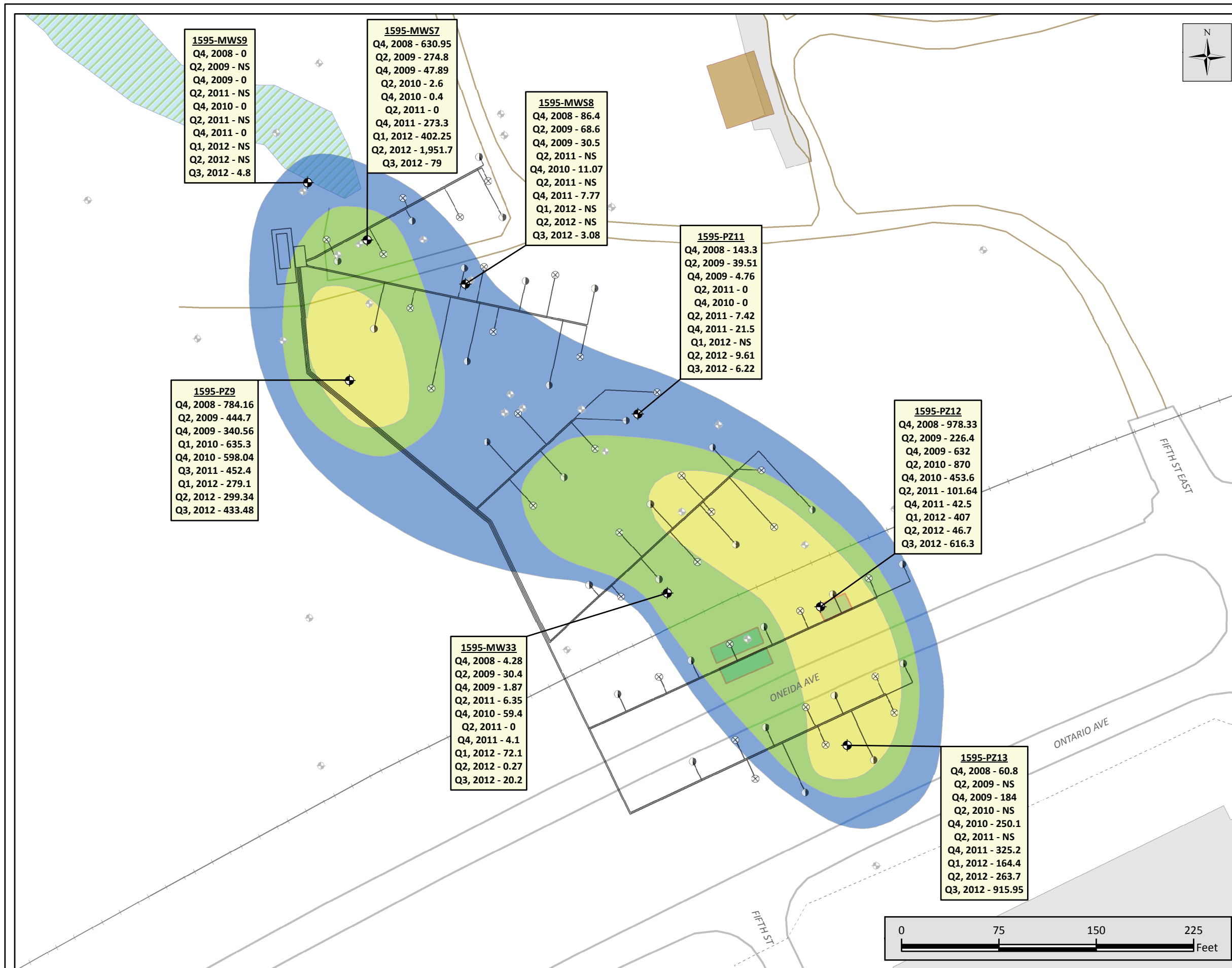


Figure 5-2: Area 1595

Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery





1595-MWS9
 Q4, 2008 - 0
 Q2, 2009 - NS
 Q4, 2009 - 0
 Q2, 2011 - NS
 Q4, 2010 - 0
 Q2, 2011 - NS
 Q4, 2011 - 0
 Q1, 2012 - NS
 Q2, 2012 - NS
 Q3, 2012 - 4.8

1595-MWS7
 Q4, 2008 - 630.95
 Q2, 2009 - 274.8
 Q4, 2009 - 47.89
 Q2, 2010 - 2.6
 Q4, 2010 - 0.4
 Q2, 2011 - 0
 Q4, 2011 - 273.3
 Q1, 2012 - 402.25
 Q2, 2012 - 1,951.7
 Q3, 2012 - 79

1595-MWS8
 Q4, 2008 - 86.4
 Q2, 2009 - 68.6
 Q4, 2009 - 30.5
 Q2, 2011 - NS
 Q4, 2010 - 11.07
 Q2, 2011 - NS
 Q4, 2011 - 7.77
 Q1, 2012 - NS
 Q2, 2012 - NS
 Q3, 2012 - 3.08

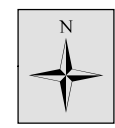
1595-PZ11
 Q4, 2008 - 143.3
 Q2, 2009 - 39.51
 Q4, 2009 - 4.76
 Q2, 2011 - 0
 Q4, 2010 - 0
 Q2, 2011 - 7.42
 Q4, 2011 - 21.5
 Q1, 2012 - NS
 Q2, 2012 - 9.61
 Q3, 2012 - 6.22

1595-PZ9
 Q4, 2008 - 784.16
 Q2, 2009 - 444.7
 Q4, 2009 - 340.56
 Q1, 2010 - 635.3
 Q4, 2010 - 598.04
 Q3, 2011 - 452.4
 Q1, 2012 - 279.1
 Q2, 2012 - 299.34
 Q3, 2012 - 433.48

1595-PZ12
 Q4, 2008 - 978.33
 Q2, 2009 - 226.4
 Q4, 2009 - 632
 Q2, 2010 - 870
 Q4, 2010 - 453.6
 Q2, 2011 - 101.64
 Q4, 2011 - 42.5
 Q1, 2012 - 407
 Q2, 2012 - 46.7
 Q3, 2012 - 616.3

1595-MW33
 Q4, 2008 - 4.28
 Q2, 2009 - 30.4
 Q4, 2009 - 1.87
 Q2, 2011 - 6.35
 Q4, 2010 - 59.4
 Q2, 2011 - 0
 Q4, 2011 - 4.1
 Q1, 2012 - 72.1
 Q2, 2012 - 0.27
 Q3, 2012 - 20.2

1595-PZ13
 Q4, 2008 - 60.8
 Q2, 2009 - NS
 Q4, 2009 - 184
 Q2, 2010 - NS
 Q4, 2010 - 250.1
 Q2, 2011 - NS
 Q4, 2011 - 325.2
 Q1, 2012 - 164.4
 Q2, 2012 - 263.7
 Q3, 2012 - 915.95



- 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
- Fall 2012 BTEX Plume**
- 1 µg/L
 - 10 µg/L
 - 100 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

25 years of excellence

PLEXUS scientific

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

Created By: BAB
 Date: June 2013

FIGURE 5-3

1595 BTEX Comparison

Quarterly Report of Progress (Feb 2013 - April 2013)
 Operations and Maintenance
 Remediation Systems for Gasoline Alley
 and Army Air Force Exchange Service Station
 Fort Drum, New York

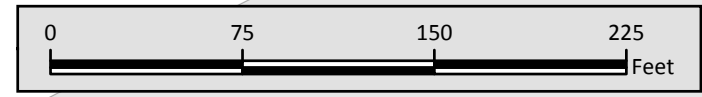


Figure 5-4: Area 1795 - System A

Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery

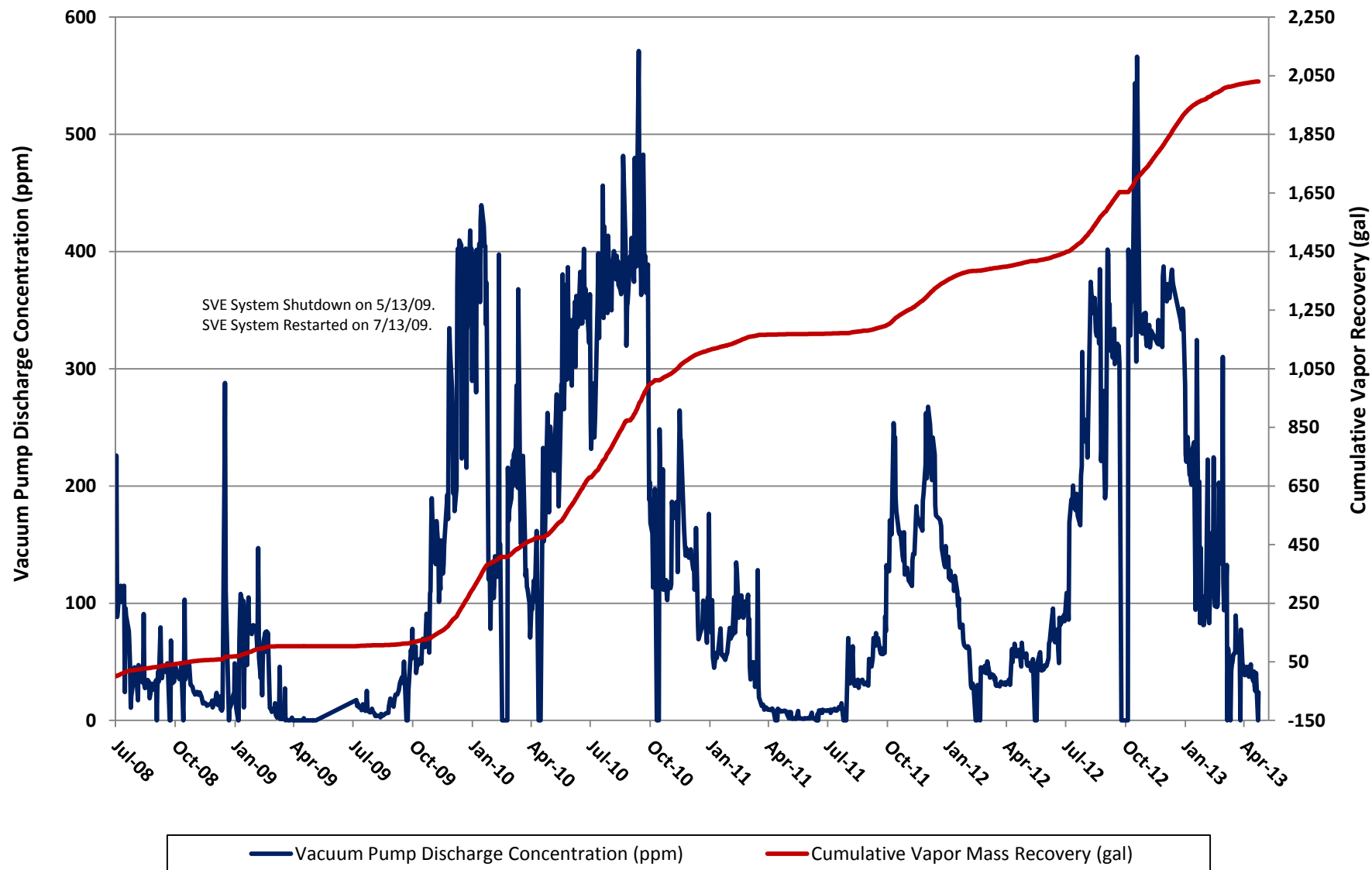
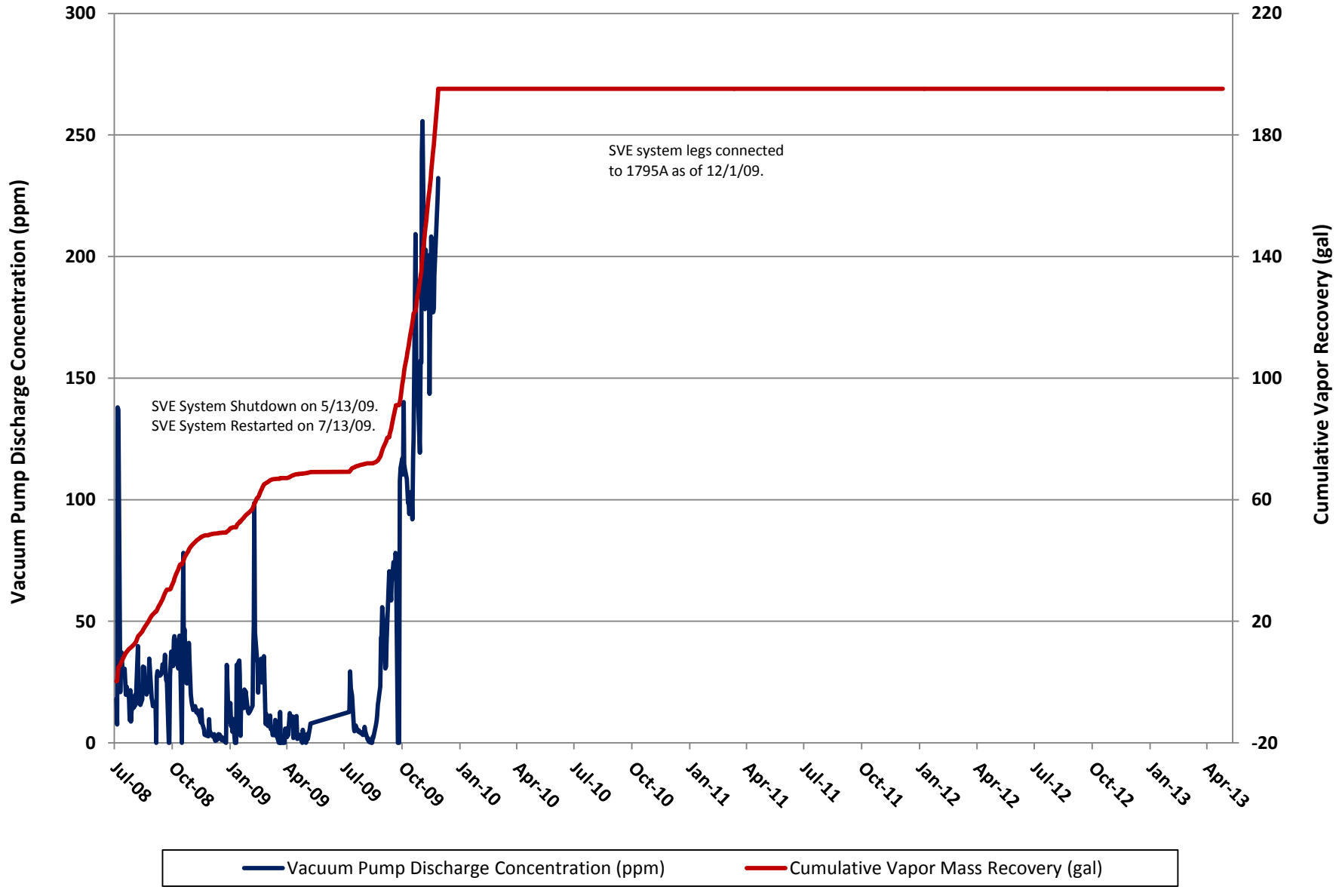
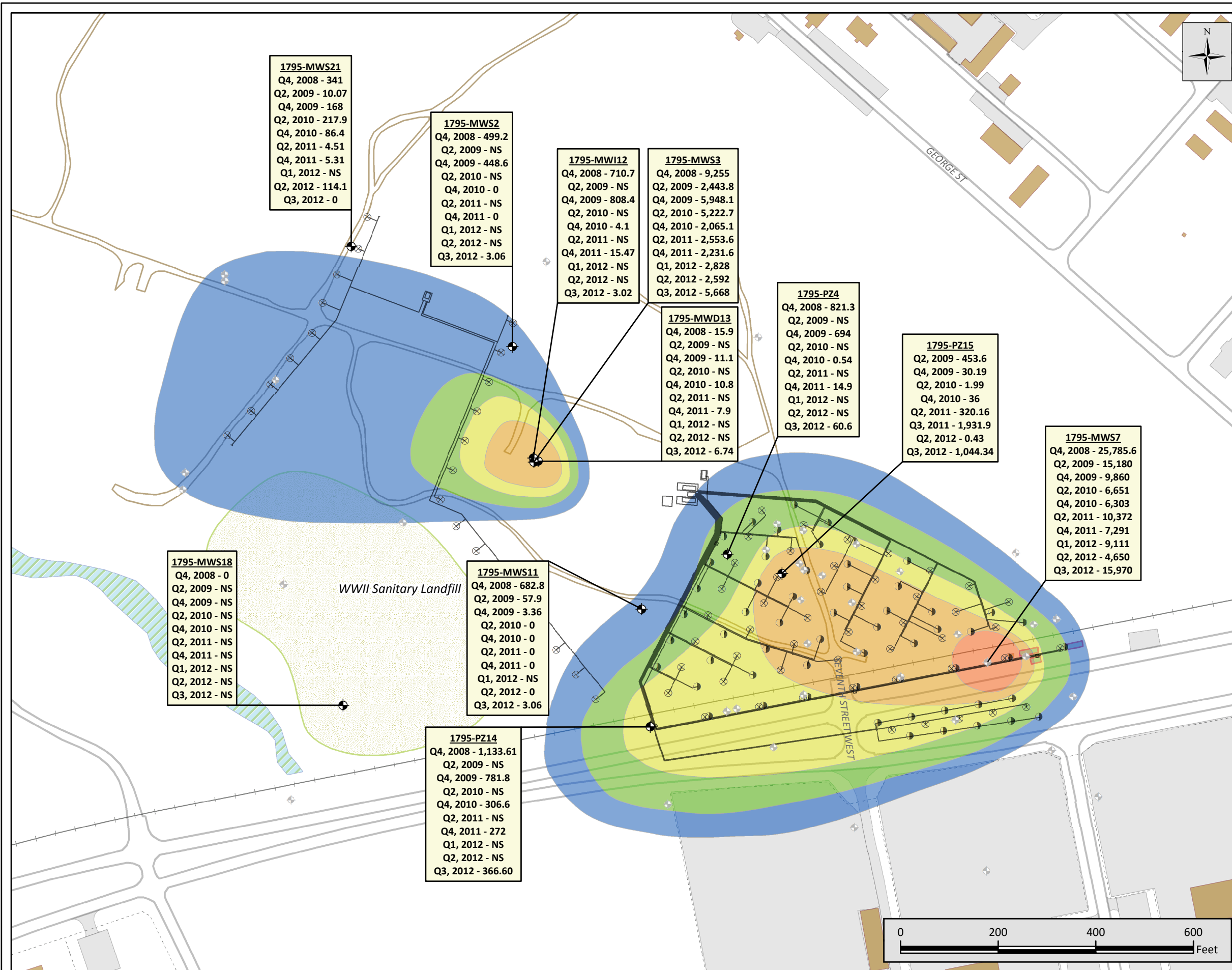


Figure 5-5: Area 1795 - System B

Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery





1795-MWS21
 Q4, 2008 - 341
 Q2, 2009 - 10.07
 Q4, 2009 - 168
 Q2, 2010 - 217.9
 Q4, 2010 - 86.4
 Q2, 2011 - 4.51
 Q4, 2011 - 5.31
 Q1, 2012 - NS
 Q2, 2012 - 114.1
 Q3, 2012 - 0

1795-MWS2
 Q4, 2008 - 499.2
 Q2, 2009 - NS
 Q4, 2009 - 448.6
 Q2, 2010 - NS
 Q4, 2010 - 0
 Q2, 2011 - NS
 Q4, 2011 - 0
 Q1, 2012 - NS
 Q2, 2012 - NS
 Q3, 2012 - 3.06

1795-MWI12
 Q4, 2008 - 710.7
 Q2, 2009 - NS
 Q4, 2009 - 808.4
 Q2, 2010 - NS
 Q4, 2010 - 4.1
 Q2, 2011 - NS
 Q4, 2011 - 15.47
 Q1, 2012 - NS
 Q2, 2012 - NS
 Q3, 2012 - 3.02

1795-MWS3
 Q4, 2008 - 9,255
 Q2, 2009 - 2,443.8
 Q4, 2009 - 5,948.1
 Q2, 2010 - 5,222.7
 Q4, 2010 - 2,065.1
 Q2, 2011 - 2,553.6
 Q4, 2011 - 2,231.6
 Q1, 2012 - 2,828
 Q2, 2012 - 2,592
 Q3, 2012 - 5,668

1795-MWD13
 Q4, 2008 - 15.9
 Q2, 2009 - NS
 Q4, 2009 - 11.1
 Q2, 2010 - NS
 Q4, 2010 - 10.8
 Q2, 2011 - NS
 Q4, 2011 - 7.9
 Q1, 2012 - NS
 Q2, 2012 - NS
 Q3, 2012 - 6.74

1795-PZ4
 Q4, 2008 - 821.3
 Q2, 2009 - NS
 Q4, 2009 - 694
 Q2, 2010 - NS
 Q4, 2010 - 0.54
 Q2, 2011 - NS
 Q4, 2011 - 14.9
 Q1, 2012 - NS
 Q2, 2012 - NS
 Q3, 2012 - 60.6

1795-PZ15
 Q2, 2009 - 453.6
 Q4, 2009 - 30.19
 Q2, 2010 - 1.99
 Q4, 2010 - 36
 Q2, 2011 - 320.16
 Q3, 2011 - 1,931.9
 Q2, 2012 - 0.43
 Q3, 2012 - 1,044.34

1795-MWS7
 Q4, 2008 - 25,785.6
 Q2, 2009 - 15,180
 Q4, 2009 - 9,860
 Q2, 2010 - 6,651
 Q4, 2010 - 6,303
 Q2, 2011 - 10,372
 Q4, 2011 - 7,291
 Q1, 2012 - 9,111
 Q2, 2012 - 4,650
 Q3, 2012 - 15,970

1795-MWS18
 Q4, 2008 - 0
 Q2, 2009 - NS
 Q4, 2009 - NS
 Q2, 2010 - NS
 Q4, 2010 - NS
 Q2, 2011 - NS
 Q4, 2011 - NS
 Q1, 2012 - NS
 Q2, 2012 - NS
 Q3, 2012 - NS

1795-MWS11
 Q4, 2008 - 682.8
 Q2, 2009 - 57.9
 Q4, 2009 - 3.36
 Q2, 2010 - 0
 Q4, 2010 - 0
 Q2, 2011 - 0
 Q4, 2011 - 0
 Q1, 2012 - NS
 Q2, 2012 - 0
 Q3, 2012 - 3.06

1795-PZ14
 Q4, 2008 - 1,133.61
 Q2, 2009 - NS
 Q4, 2009 - 781.8
 Q2, 2010 - NS
 Q4, 2010 - 306.6
 Q2, 2011 - NS
 Q4, 2011 - 272
 Q1, 2012 - NS
 Q2, 2012 - NS
 Q3, 2012 - 366.60

Legend

- ⊕ Sampled Wells
- ⊕ 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

Fall 2012 BTEX Plume

- 1 µg/L
- 10 µg/L
- 100 µg/L
- 1,000 µg/L
- 10,000 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: BAB
 Date: June 2013

FIGURE 5-6

1795 BTEX Comparison

Quarterly Report of Progress (Feb 2013 - April 2013)
 Operations and Maintenance
 Remediation Systems for Gasoline Alley
 and Army Air Force Exchange Service Station
 Fort Drum, New York



Figure 5-7: Area 3805 - System A

Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery

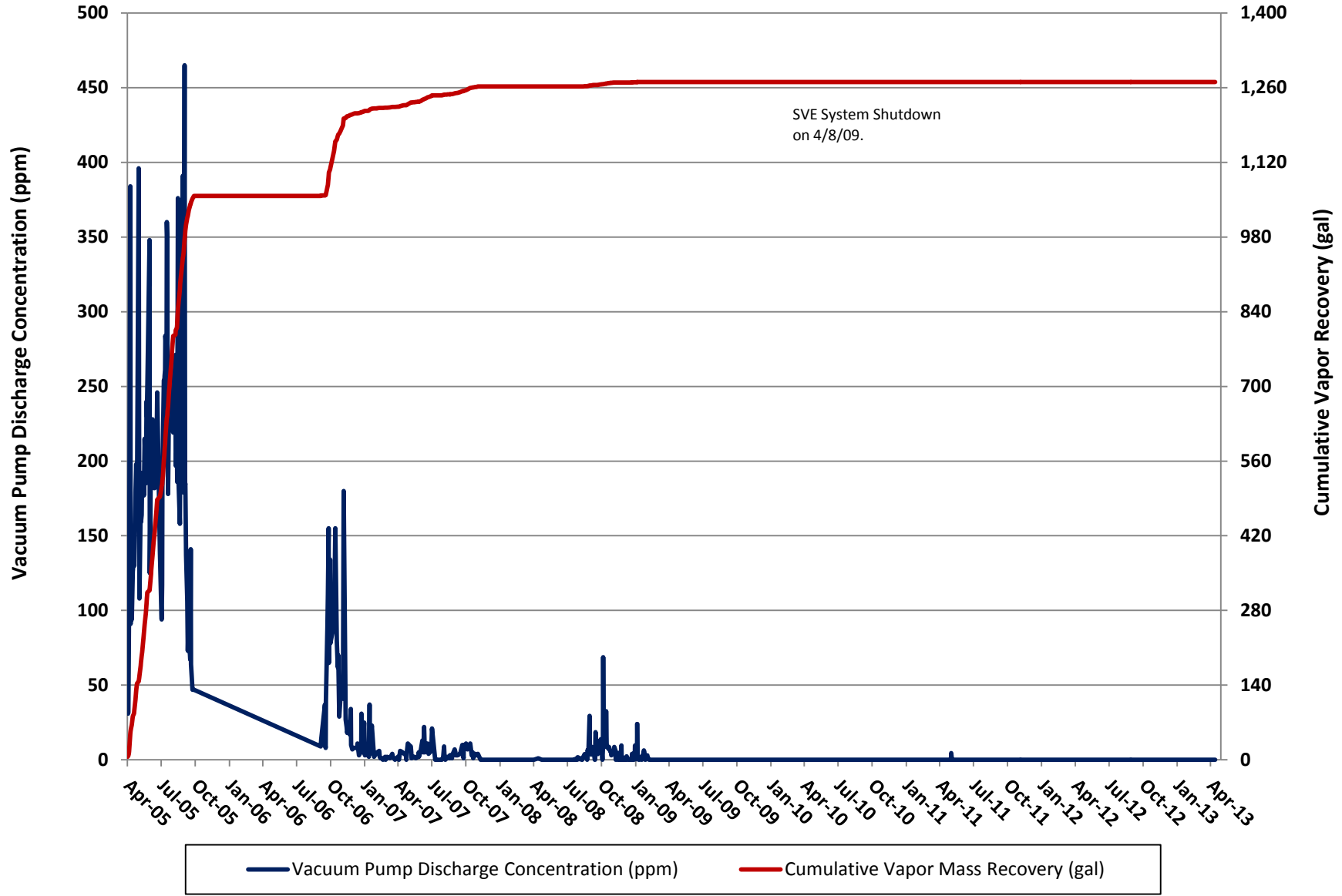


Figure 5-8: Area 3805 - System B

Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery

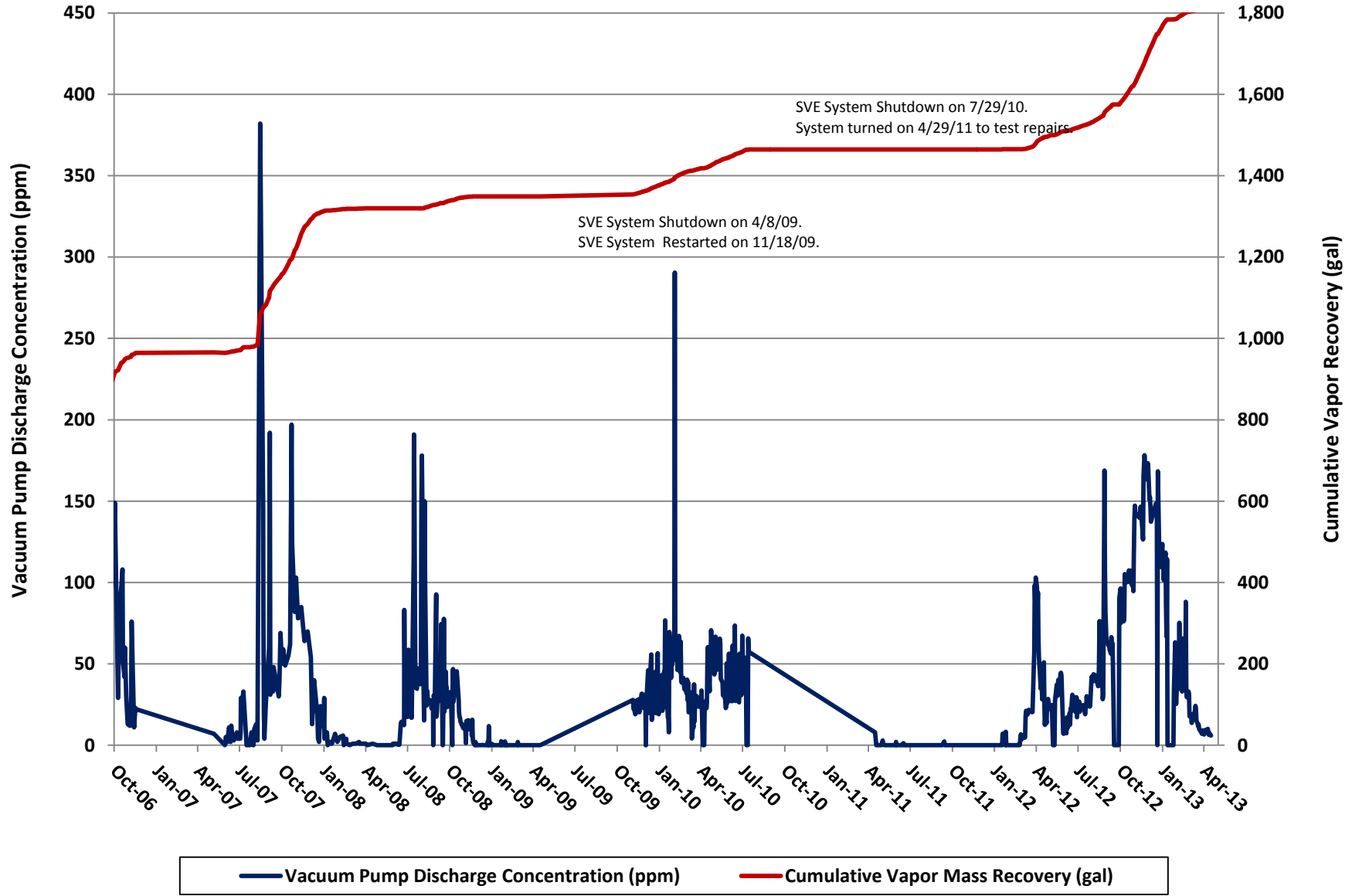


Figure 5-9: Area 3805 - System C

Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery

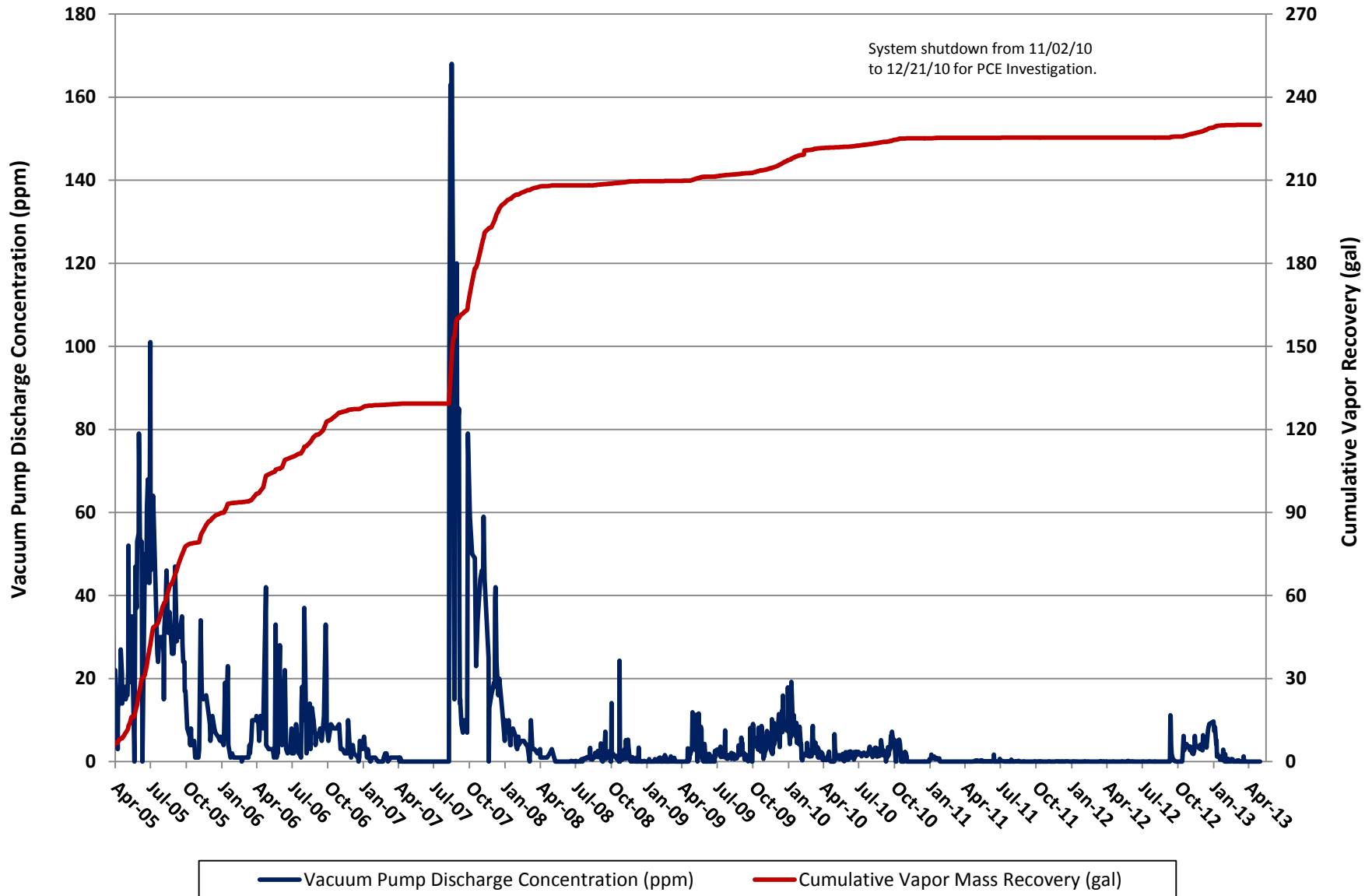
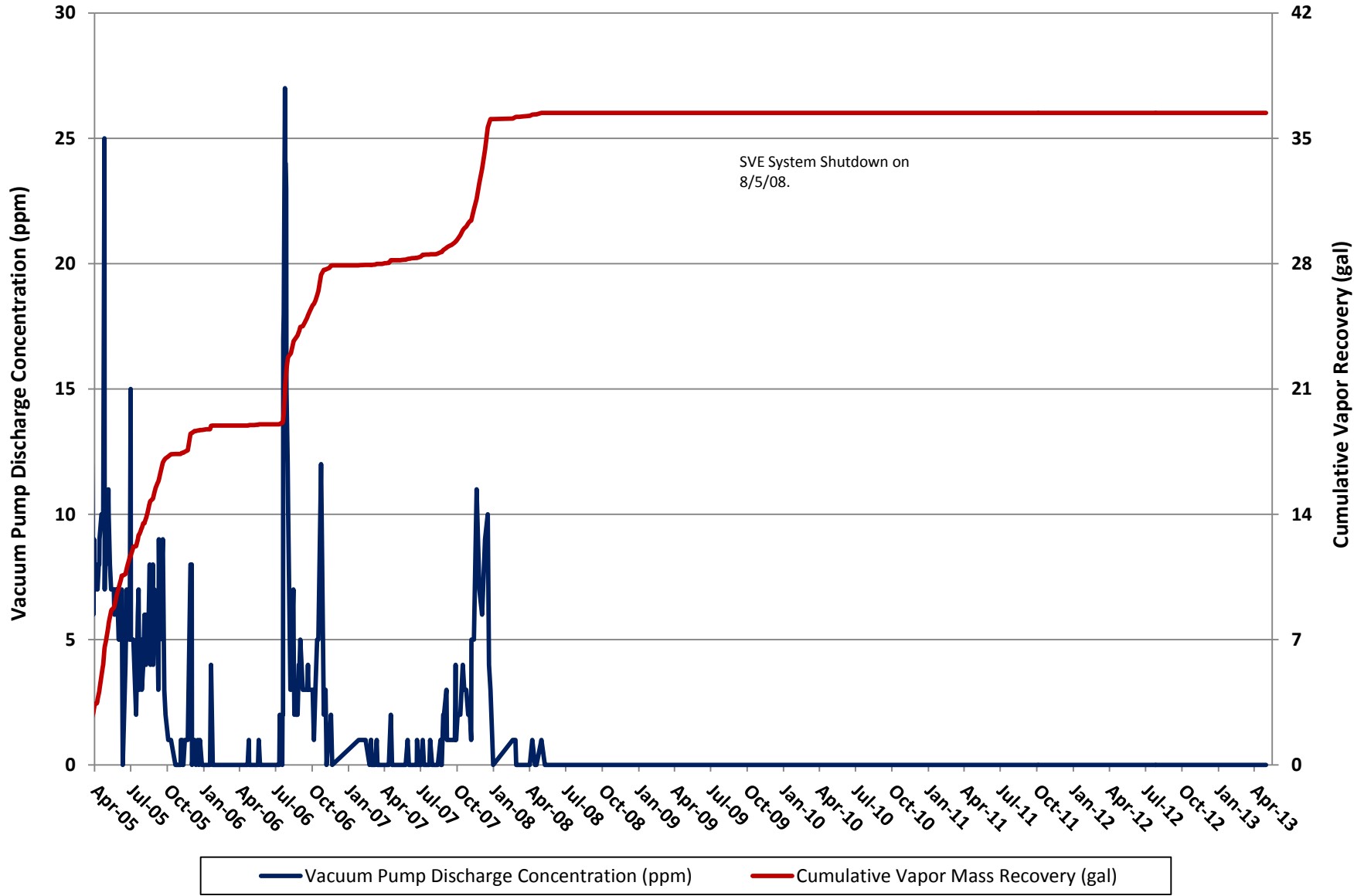
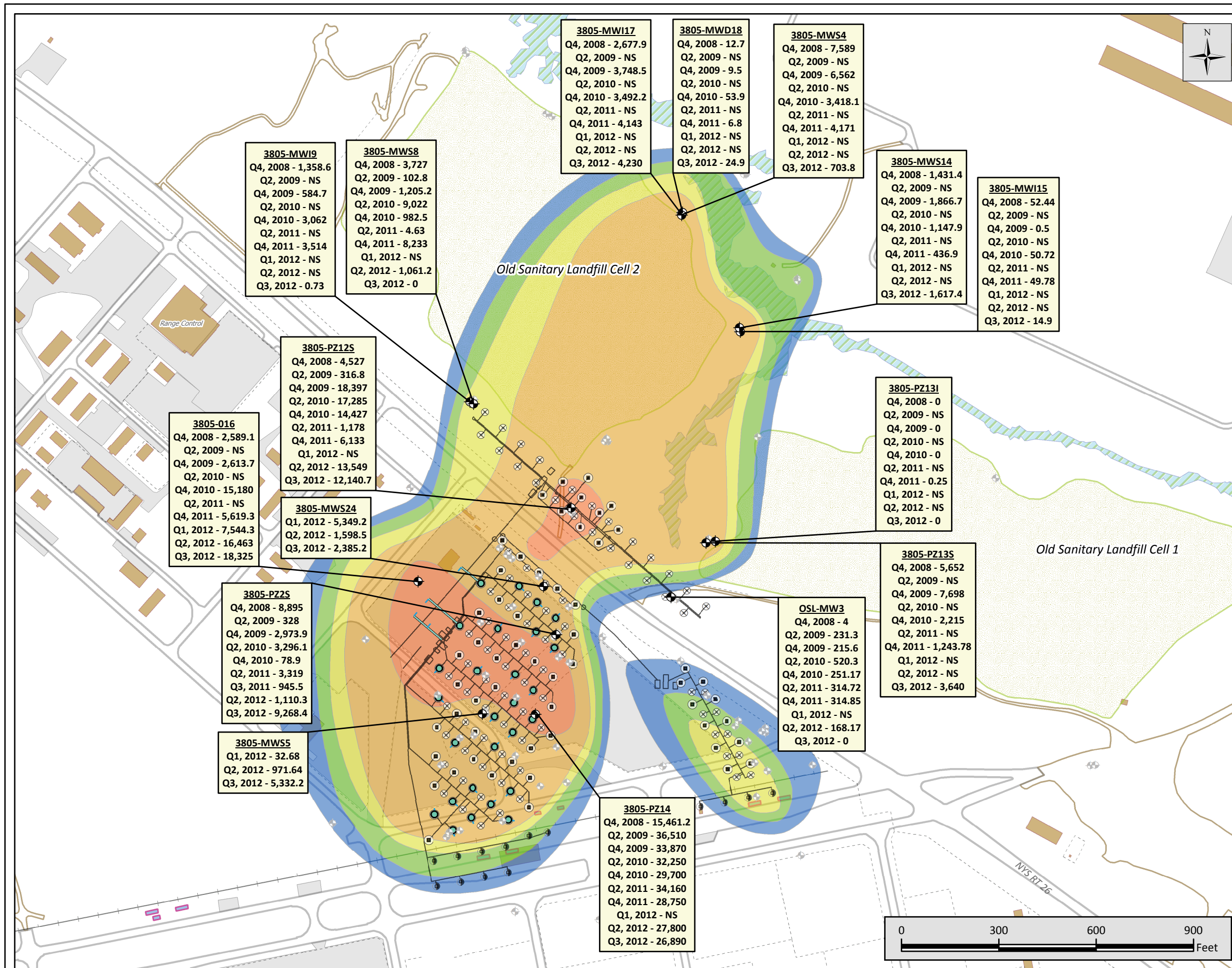


Figure 5-10: Area 3805 - System D

Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery





Legend

- Sampled Wells
- Other Monitoring Wells
- Horizontal SVE Well
- Modification Locations
- Horizontal SVE Screens
- Horizontal SVE Laterals
- Air Sparge Wells
- Multi-Phase Extraction Wells
- Soil-Vapor Extraction Wells
- System Pipes
- Former UST
- Fence Line
- Rail Road
- Paved Road
- Unpaved Road
- Landfill
- Wetlands
- Building
- Paved Area

Fall 2012 BTEX Plume

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

25 years of excellence

PLEXUS scientific

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

Created By: BAB
Date: June 2013

FIGURE 5-11

3805/1995 BTEX Comparison

Quarterly Report of Progress (Feb 2013 - April 2013)
Operations and Maintenance
Remediation Systems for Gasoline Alley
and Army Air Force Exchange Service Station
Fort Drum, New York

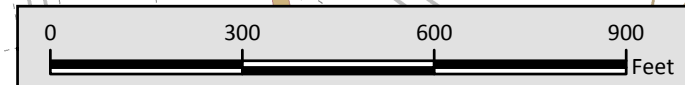
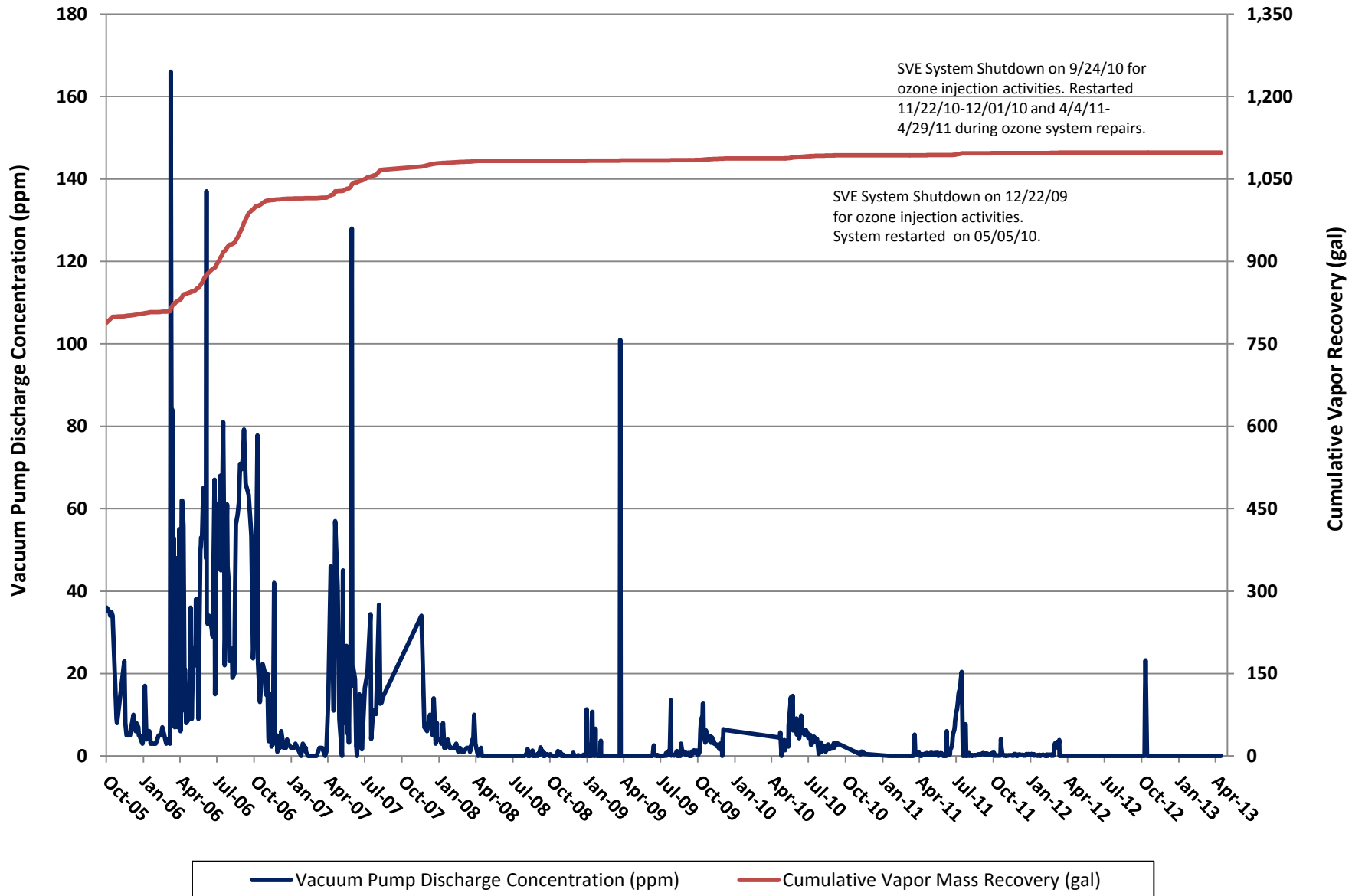
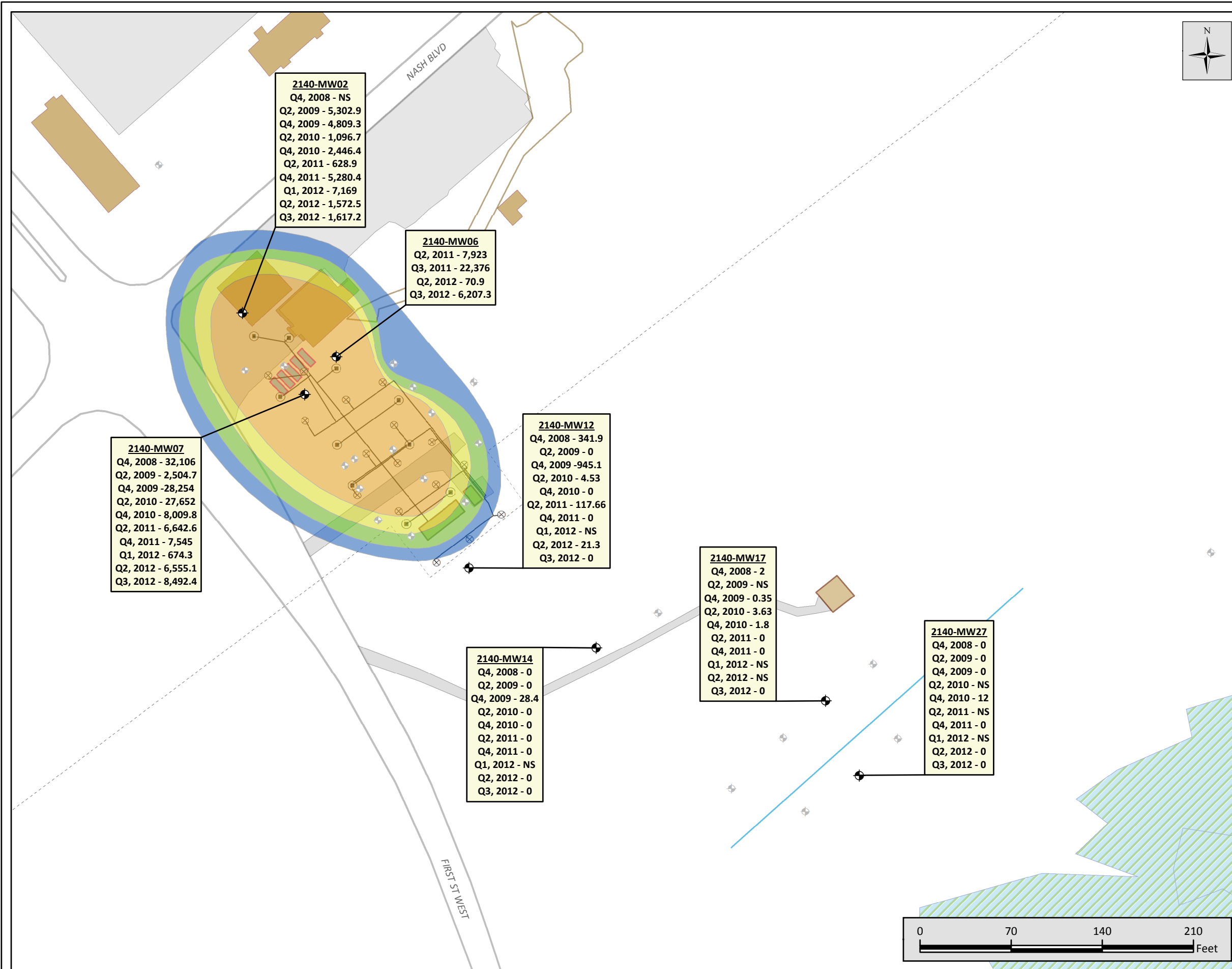


Figure 5-12: AAFES (Building P-2140)

Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery





Legend

- ◆ Sampled Wells
 - ◇ Other Monitoring Wells
 - ⊗ Airsparge Wells
 - ⊙ MPE Wells
 - System Pipes
 - Ozone Sparging Lines
 - Former UST
 - - - Fence Line
 - + Rail Road
 - Paved Road
 - Unpaved Road
 - ▨ Wetlands
 - Building
 - Paved Area
- Fall 2012 BTEX 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

2140-MW02
Q4, 2008 - NS
Q2, 2009 - 5,302.9
Q4, 2009 - 4,809.3
Q2, 2010 - 1,096.7
Q4, 2010 - 2,446.4
Q2, 2011 - 628.9
Q4, 2011 - 5,280.4
Q1, 2012 - 7,169
Q2, 2012 - 1,572.5
Q3, 2012 - 1,617.2

2140-MW06
Q2, 2011 - 7,923
Q3, 2011 - 22,376
Q2, 2012 - 70.9
Q3, 2012 - 6,207.3

2140-MW07
Q4, 2008 - 32,106
Q2, 2009 - 2,504.7
Q4, 2009 - 28,254
Q2, 2010 - 27,652
Q4, 2010 - 8,009.8
Q2, 2011 - 6,642.6
Q4, 2011 - 7,545
Q1, 2012 - 674.3
Q2, 2012 - 6,555.1
Q3, 2012 - 8,492.4

2140-MW12
Q4, 2008 - 341.9
Q2, 2009 - 0
Q4, 2009 - 945.1
Q2, 2010 - 4.53
Q4, 2010 - 0
Q2, 2011 - 117.66
Q4, 2011 - 0
Q1, 2012 - NS
Q2, 2012 - 21.3
Q3, 2012 - 0

2140-MW17
Q4, 2008 - 2
Q2, 2009 - NS
Q4, 2009 - 0.35
Q2, 2010 - 3.63
Q4, 2010 - 1.8
Q2, 2011 - 0
Q4, 2011 - 0
Q1, 2012 - NS
Q2, 2012 - NS
Q3, 2012 - 0

2140-MW14
Q4, 2008 - 0
Q2, 2009 - 0
Q4, 2009 - 28.4
Q2, 2010 - 0
Q4, 2010 - 0
Q2, 2011 - 0
Q4, 2011 - 0
Q1, 2012 - NS
Q2, 2012 - 0
Q3, 2012 - 0

2140-MW27
Q4, 2008 - 0
Q2, 2009 - 0
Q4, 2009 - 0
Q2, 2010 - NS
Q4, 2010 - 12
Q2, 2011 - NS
Q4, 2011 - 0
Q1, 2012 - NS
Q2, 2012 - 0
Q3, 2012 - 0

25 years of excellence

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

Created By: BAB
Date: June 2013

FIGURE 5-13

2140 BTEX Comparison

Quarterly Report of Progress (Feb 2013 - April 2013)
Operations and Maintenance
Remediation Systems for Gasoline Alley
and Army Air Force Exchange Service Station
Fort Drum, New York



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	
	8/17/2011	11:55	12:00	9.58	16.87	5.75	0.886	17.9	3.04	1.8	
	9/26/2011	11:17	11:22	10.14	15.37	6.42	1.741	-227.8	1.18	0.0	
	10/18/2011	13:15	13:20	9.78	14.36	6.78	1.629	-135.1	4.67	0.1	
	11/14/2011	13:22	13:27	10.14	14.19	6.54	0.864	-32.9	0.79	0.0	
	12/6/2011	13:20	13:25	10.03	12.44	6.47	1.138	-39.2	1.67	0.1	
	1/10/2012	13:19	13:24	9.97	10.78	6.41	1.287	-62.9	7.43	0.1	
	2/20/2012	15:20	15:25	9.93	8.48	6.72	9.840	-21.4	4.64	0.2	Numbers taken while system was off
	3/13/2012	11:26	11:31	9.61	8.40	5.12	7.547	40.9	0.01	2.8	
	4/18/2012	9:32	9:37	10.41	8.84	6.13	0.892	-51.9	1.01	0.7	
	5/16/2012	8:52	8:57	9.84	10.69	8.03	0.490	72.2	4.45	0.4	
	6/11/2012	11:11	11:16	10.61	12.19	6.53	1.533	-51.8	2.61	0.8	
	7/11/2012	10:18	10:23	10.21	15.56	7.67	0.698	-14.5	1.30	1.2	
	8/13/2012	9:30	9:35	10.71	15.37	6.54	1.172	-22.2	1.54	0.2	
	9/12/2012	7:55	8:00	10.55	14.94	6.11	1.117	-49.3	1.64	0.8	
	10/16/2012	10:30	10:35	10.52	15.52	6.19	1.273	0.6	0.55	0.8	
11/14/2012	12:15	12:20	11.08	14.22	6.20	1.276	97.4	0.59	3.4		
12/4/2012	11:45	11:50	11.36	13.93	6.59	1.112	-123.4	0.87	52.4		

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**

Monitoring Date	Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)	Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)	LNAPL Recovery (gal)
February	11.48	1.83	0
March	6.20	0.99	0
April	0.00	0.00	0
Quarter Total	17.68	2.82	0
Cumulative Total	2,044.69	325.59	156.1

Notes:

lb = pounds

gal = gallons

*The system was deactivated on 03/25/13 for the bio augmentation study.

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

Description	February	March	April	Total/Average
Gallons	0	0	0	NA
Hours Operated	670	527	0	1,197
Days Operated	28	22	0	50
Average (gal/min)	NA	NA	NA	NA

Notes:

*The system was deactivated on 03/25/13 for the bio augmentation study.

**TABLE 3-4
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	0.0	
	5/19/2009	9:20	9:25	12.19	9.28	7.76	0.805	167.9	10.50	0.0	
	6/24/2009	12:37	12:42	12.64	12.40	6.84	0.822	166.4	1.96	0.0	
	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	0.0	
	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	
	8/17/2011	11:30	11:35	12.86	12.79	7.22	2.159	-6.5	7.35	0.0	
9/27/2011	14:23	14:28	13.87	13.20	7.15	1.047	-254.6	3.32	0.0		
10/18/2011	12:09	12:14	13.91	13.17	7.56	1.930	-126.6	9.71	0.0	SVE running	
11/14/2011	13:36	13:41	14.21	13.79	7.89	0.711	-19.7	10.83	0.0		
12/6/2011	12:16	12:21	14.42	11.67	7.09	2.241	11.0	6.22	0.0		
1/10/2012	13:52	13:57	13.98	11.24	7.73	0.682	-108.2	8.58	0.0		
2/20/2012	14:18	14:23	13.42	9.70	8.16	0.581	-35.1	11.27	0.0		
3/13/2012	10:33	10:38	13.36	8.82	7.26	0.594	-34.8	8.78	0.0		
4/18/2012	10:16	10:21	13.91	8.89	7.63	0.800	19.7	10.36	0.0		
5/17/2012	10:35	10:40	13.73	9.31	8.65	0.761	45.8	11.32	0.0		
6/11/2012	11:55	12:00	14.30	11.35	7.50	1.327	-4.4	12.05	0.0		
7/11/2012	11:57	12:02	14.18	12.13	7.92	0.752	-32.4	6.54	0.0		
8/13/2012	15:36	15:41	15.31	13.14	7.27	1.073	-17.0	10.44	0.0		
9/11/2012	13:50	13:55	15.28	13.40	7.37	0.581	72.2	6.24	0.0		
10/16/2012	9:23	9:28	15.53	13.27	6.98	0.940	87.5	6.99	0.0		
11/14/2012	10:48	10:53	15.84	13.36	7.02	1.174	20.8	8.36	0.0		
12/4/2012	12:30	12:35	16.11	13.29	7.22	0.569	44.5	10.20	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	0.0	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	15.94	8.65	7.05	0.741	-16.9	10.80	0.0	
6/15/2010	13:46	13:51	14.14	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		

**TABLE 3-4
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
	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	
	8/17/2011	11:19	11:24	11.41	12.75	7.00	0.720	-18.8	11.71	0.0	Well bubbling
	9/27/2011	14:12	14:17	17.61	11.62	6.88	0.705	-207.9	11.37	0.0	
	10/18/2011	13:27	13:32	12.51	12.47	7.04	0.643	-107.6	10.99	0.0	SVE running
	11/14/2011	12:55	13:00	12.98	13.02	7.08	0.428	235.1	12.22	0.0	
	12/6/2011	13:32	13:37	13.22	12.03	6.86	0.599	-17.0	10.69	0.0	
	1/10/2012	13:32	13:37	12.90	11.28	6.98	0.546	-61.3	9.97	0.0	
	2/20/2012	14:07	14:12	12.36	10.14	7.37	0.642	-32.5	12.36	0.0	
	3/13/2012	12:22	12:27	12.17	9.06	7.01	0.444	19.3	10.79	0.1	
	4/19/2012	9:50	9:55	12.81	8.78	6.88	0.429	88.1	11.41	0.1	
	5/17/2012	10:21	10:26	12.57	9.17	8.29	0.325	50.0	11.93	0.0	
	6/11/2012	11:25	11:30	13.14	10.18	7.26	0.346	28.2	13.65	0.0	
	7/11/2012	11:37	11:42	13.65	10.51	7.55	0.418	35.7	8.15	0.1	
	8/13/2012	15:26	15:31	14.14	12.38	7.00	0.472	-34.6	11.93	0.0	
	9/11/2012	13:37	13:42	14.19	11.59	6.85	0.350	71.2	7.67	0.0	
	10/16/2012	9:11	9:16	14.43	13.30	6.90	0.379	60.5	9.32	0.0	
	11/14/2012	10:31	10:36	14.85	13.62	6.93	0.425	-4.1	10.49	0.2	
	12/4/2012	12:20	12:25	15.19	12.76	6.95	0.389	40.7	11.36	5.3	
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	
	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	0.0	
	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	
	8/17/2011	11:02	11:07	12.77	14.34	6.64	2.794	-107.5	3.17	0.9	
	9/27/2011	14:02	14:07	13.84	12.87	6.47	2.552	-310.3	1.55	0.0	
	10/18/2011	13:03	13:08	13.82	13.68	6.83	2.503	-146.2	5.12	0.1	SVE running
	11/14/2011	13:06	13:11	14.31	14.36	6.89	1.326	-78.3	1.13	0.0	
	12/6/2011	13:09	13:14	14.24	12.91	6.68	1.782	-88.5	0.97	0.0	
	1/10/2012	13:41	13:46	13.91	11.91	6.97	4.464	-181.4	9.20	0.1	
	2/20/2012	13:55	14:00	13.44	9.91	7.62	0.429	-90.2	1.83	0.0	
	3/13/2012	11:15	11:20	13.18	9.96	6.63	2.179	-102.5	0.61	0.0	
	4/18/2012	10:03	10:08	13.88	9.51	6.91	1.200	-145.9	0.35	0.2	
	5/17/2012	10:11	10:16	13.59	10.14	8.90	0.444	-47	1.18	0.0	
	6/11/2012	11:37	11:42	14.28	10.90	6.92	0.779	-106.2	1.31	0.0	
	7/11/2012	11:48	11:53	14.84	12.65	7.13	1.221	-8.9	0.59	0.0	

**TABLE 3-4
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
	8/13/2012	15:15	15:20	15.23	13.87	6.82	1.503	-110.6	1.13	0.1	
	9/11/2012	13:27	13:32	15.22	14.58	6.87	1.751	-140.9	0.89	0.0	
	10/16/2012	9:01	9:06	15.36	14.64	6.68	1.922	-110.8	0.45	0.2	
	11/14/2012	10:21	10:26	15.81	14.90	6.60	1.524	-94.9	0.46	0.2	
	12/4/2012	12:07	12:12	16.08	15.51	7.14	0.484	-114.4	1.11	0.3	
1595-MWS7	3/26/2013	7:15	7:20	3.63	8.31	7.01	0.392	192.3	8.18	0	
	4/23/2013	9:03	9:08	4.17	7.76	7.23	0.404	56.5	7.51	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,
	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,
	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,
	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,
	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,
	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,
	4/13/2010	15:00	NR	8.97	NR	NR	NR	NR	NR	52.8	DTP 8.86, DTW 8.97, 0.11 of LNAPL, no sampling performed,
	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	241.8	
	7/13/2010	15:20	15:25	9.38	14.98	6.10	0.307	-10.2	0.92	418.8	
	8/10/2010	11:35	11:40	9.28	14.36	6.26	0.408	55.5	0.56	215.1	
	9/14/2010	14:50	14:55	9.63	15.21	6.31	0.749	15.1	3.50	348.8	Had reading on interface probe. Checked with bailer, no product found. Sampled after all other wells
	10/12/2010	NR	NR	8.78	NR	NR	NR	NR	NR	333.4	DTP8.15, DTW 8.78 Not sampled
	11/15/2010	NR	NR	8.82	NR	NR	NR	NR	NR	379.6	DTP=8.57 DTW =8.82 NOT
	12/15/2010	NR	NR	8.41	NR	NR	NR	NR	NR	357.2	DTP=7.68 DTW= 8.41 Not sampled
	1/14/2011	NR	NR	8.27	NR	NR	NR	NR	NR	88.8	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	74.7	
	3/15/2011	NR	NR	7.74	NR	NR	NR	NR	NR	NR	DTP=6.90 DTW=7.74 Not
	4/14/2011	14:38	14:43	7.33	7.62	6.20	0.514	-371.10	2.48	376.2	
	5/18/2011	11:50	11:55	6.29	10.31	6.61	0.721	-274.30	0.95	223.9	
	6/13/2011	11:26	11:31	6.86	13.18	6.38	0.820	-57.50	4.29	284.3	
	7/11/2011	13:02	13:07	7.40	15.57	6.16	0.398	-350.50	2.02	236.6	
	8/17/2011	12:45	12:50	7.61	18.58	6.11	0.394	-60.50	1.69	210.4	
	9/27/2011	15:06	15:11	8.31	15.79	6.15	0.351	-283.50	1.47	274.6	
	10/18/2011	12:39	12:44	8.01	15.02	6.52	0.441	-137.60	3.75	11.1	SVE running
	11/14/2011	14:14	14:19	8.41	13.68	6.17	0.278	-47.40	0.68	6.90	
	12/6/2011	12:49	12:54	8.21	12.00	6.31	0.416	-49.50	1.47	0.30	
	1/10/2012	14:24	14:29	8.23	10.68	6.35	0.490	-93.10	2.42	152.80	
	2/20/2012	14:52	14:57	7.91	8.49	6.76	0.720	-94.50	3.39	397.10	
	3/13/2012	10:59	11:04	7.65	8.25	6.23	0.448	19.20	1.72	275.10	
	4/18/2012	11:06	11:11	8.14	9.03	6.36	0.447	-22.00	1.20	251.50	
	5/17/2012	11:14	11:19	7.99	9.98	8.21	0.363	-13.60	1.84	139.40	
	6/11/2012	12:30	12:35	8.48	11.73	6.47	0.445	-56.60	1.73	7.60	
	7/11/2012	12:43	12:48	8.87	16.63	6.39	0.351	-10.20	2.23	3.60	
	8/13/2012	16:06	16:11	9.16	12.27	6.35	0.418	-74.80	3.20	1.70	
	9/11/2012	14:24	14:29	9.16	12.21	7.22	0.574	9.70	8.32	1.30	
	10/16/2012	9:57	10:02	9.14	14.14	6.29	0.238	-20.80	0.90	4.20	
	11/14/2012	11:24	11:29	9.42	13.61	6.34	2.190	-39.60	0.69	3.10	
	12/4/2012	13:10	13:15	9.57	13.23	6.36	0.201	-54.90	1.09	0.60	
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 3-4
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	0.0	
	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	
	8/17/2011	12:33	12:38	4.09	16.55	7.05	0.215	-47.60	8.76	0.8	
	9/27/2011	14:53	14:58	4.38	14.98	7.04	0.425	-218.00	10.61	0.0	
	10/18/2011	12:51	12:56	4.21	13.34	7.31	1.569	99.20	13.32	1.9	SVE running
	11/14/2011	14:28	14:33	4.41	12.44	7.01	0.941	-3.80	13.30	24.0	
	12/6/2011	13:00	13:05	4.15	10.53	6.84	0.890	-59.70	12.36	0.0	
	1/10/2012	14:36	14:41	4.81	8.90	7.31	0.855	-72.20	11.31	19.9	
	2/20/2012	15:04	15:09	4.18	7.07	7.74	0.424	-97.70	12.82	6.7	
	3/13/2012	11:06	11:11	4.05	7.32	7.01	0.467	-55.80	6.60	4.7	
	4/18/2012	10:45	10:50	8.46	8.12	5.68	0.124	111.80	8.26	0.1	
	5/17/2012	11:26	11:31	4.21	9.97	8.22	0.387	11.60	7.40	1.3	
	6/11/2012	12:41	12:46	4.50	13.35	7.24	0.456	-30.20	13.06	2.9	
	7/11/2012	12:33	12:38	4.62	14.19	7.39	0.453	-14.70	7.28	8.1	
	8/13/2012	16:16	16:21	4.73	15.13	7.37	0.661	-56.10	12.13	0.8	
	9/11/2012	14:32	14:37	4.70	14.14	7.34	0.665	70.10	9.55	0.2	
	10/16/2012	10:10	10:15	4.78	14.27	6.78	0.557	36.90	1.86	2.5	
	11/14/2012	11:40	11:45	4.81	12.80	6.68	0.682	20.20	2.19	2.0	
	12/4/2012	13:25	13:30	4.88	11.37	7.06	0.698	29.80	5.14	5.1	
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
	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
	3/26/2013	7:32	7:37	11.35	9.57	5.97	0.115	-90.2	0.74	79.4	
	4/23/2013	9:38	9:43	10.79	8.87	6.16	0.171	-48.8	1.6	280.5	
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	0.0	
	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	

**TABLE 3-4
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
	5/11/2010	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	
	8/17/2011	11:43	11:48	7.32	13.34	5.77	0.147	70.30	8.71	0.6	
	9/27/2011	14:41	14:46	8.61	13.33	5.42	0.123	-212.90	4.63	0.0	
	10/18/2011	12:17	12:22	8.05	13.38	6.30	0.221	-99.60	9.50	0.0	SVE running
	11/14/2011	13:47	13:52	8.68	13.71	6.16	0.101	155.30	6.57	0.0	
	12/6/2011	12:26	12:31	18.56	12.18	6.39	0.134	86.00	6.43	0.0	
	1/10/2012	14:02	14:07	8.36	10.23	6.06	0.142	-21.70	7.63	0.0	
	2/20/2012	14:28	14:33	8.01	8.50	7.48	0.102	24.90	12.47	0.0	
	3/13/2012	10:50	10:55	7.65	7.98	6.26	0.108	37.60	9.33	0.1	
	4/18/2012	10:59	11:04	4.28	8.10	7.46	0.345	67.10	6.46	5.1	
	5/17/2012	10:45	10:50	8.14	9.13	7.82	0.105	126.50	12.37	0.0	
	6/11/2012	12:06	12:11	8.95	11.54	6.45	0.120	84.00	6.72	0.0	
	7/11/2012	12:12	12:17	9.38	12.15	6.90	0.344	16.80	4.95	0.0	
	8/13/2012	15:44	15:49	9.93	13.46	5.54	5.980	59.30	9.76	0.2	
	9/11/2012	14:00	14:05	9.77	12.73	6.84	0.891	135.00	6.64	0.0	
	10/16/2012	9:34	9:39	9.96	13.53	5.10	0.760	175.50	5.09	0.0	
	11/14/2012	11:00	11:05	10.42	13.31	6.44	0.643	74.30	6.90	1.8	
	12/4/2012	12:40	12:45	10.62	12.95	6.45	0.496	108.10	7.31	10.1	
1595-PZ-9	3/26/2013	7:23	7:28	7.96	7.37	5.83	0.079	-58.9	1.36	91.6	
	4/23/2013	9:31	9:36	7.25	6.16	6.34	0.448	7.5	3.32	225.9	
1595-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	0.9	
	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	
	8/17/2011	12:20	12:25	13.11	12.31	6.28	0.168	-59.7	1.23	2.1	
	9/27/2011	14:32	14:37	13.99	12.36	6.41	0.156	-294.7	1.48	5.6	
	10/18/2011	12:27	12:32	14.03	12.34	7.01	1.876	-117.3	9.31	0.0	SVE running
	11/14/2011	13:59	14:04	14.21	13.12	6.64	1.088	19.5	0.90	0.0	
	12/6/2011	12:40	12:45	14.38	12.28	6.52	2.300	26.8	2.63	0.0	

**TABLE 3-4
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
	1/10/2012	14:13	14:18	14.04	11.76	6.40	1.731	-30.2	10.04	0.0	
	2/20/2012	14:43	14:48	13.53	9.86	6.94	0.277	-52.5	3.82	4.6	
	3/13/2012	10:41	10:46	13.32	9.67	6.78	1.487	-4.1	5.73	3.7	
	4/18/2012	10:30	10:35	13.92	8.76	6.44	0.203	-37.4	1.50	1.3	
	5/17/2012	10:57	11:02	13.79	9.21	8.37	0.238	-4.7	1.13	0.3	
	6/11/2012	12:19	12:24	14.33	10.91	6.85	0.193	-54.4	1.62	0.4	
	7/11/2012	12:21	12:26	14.87	11.05	7.07	0.166	-14.4	1.08	2.6	
	8/13/2012	15:54	15:59	15.29	11.70	6.83	0.409	-80.8	5.54	0.1	
	9/11/2012	14:12	14:17	15.28	10.84	7.60	0.468	70.1	7.91	0.0	
	10/16/2012	9:46	9:51	15.40	12.59	7.36	0.312	-4.7	9.39	1.2	
	11/14/2012	11:13	11:18	15.73	12.74	6.59	0.229	-15.8	2.08	3.1	
	12/4/2012	12:57	13:02	15.95	13.10	6.49	0.246	-7.1	2.02	11.7	
1595-PZ-11	3/26/2013	7:42	7:47	14.16	9.91	6.78	0.343	-23.4	2.36	3.4	
	4/23/2013	9:42	9:47	13.64	9.26	6.96	0.557	10.7	2.22	0	
1595-PZ-12	3/26/2013	7:53	7:58	13.49	9.81	6.93	0.716	-15.8	3.82	0.1	
	4/23/2013	10:06	10:11	13.01	8.33	6.57	1.201	-14.3	2.41	0.1	
1595-PZ-13	3/26/2013	8:09	8:14	9.91	9.83	6.98	0.643	-86.9	1.06	0.2	
	4/23/2013	10:21	10:26	9.31	7.65	6.62	0.691	-10.9	2.37	0.7	

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

Monitoring Date	Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)	Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)	LNAPL Recovery (gal)
February	199.25	31.73	0
March	148.71	23.68	0
April	67.83	10.80	0
Quarter Total	415.79	66.21	0
Cumulative Total	12,703.99	2,022.93	0.2

System B

Monitoring Date	Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)	Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)	LNAPL Recovery (gal)
February	0.00	0.00	0
March	0.00	0.00	0
April	0.00	0.00	0
Quarter Total	0.00	0.00	0
Cumulative Total	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

Description	February	March	April	Total/Average
Gallons	0	0	0	0
Hours Operated	670	686	725	2,081
Days Operated	28	29	30	87
Average (gal/min)	0.000	0.000	0.000	0.000

System B

Description	February	March	April	Total/Average
Gallons	0	0	0	NA
Hours Operated	0	0	0	NA
Days Operated	0	0	0	NA
Average (gal/min)	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
	1/13/2010	9:47	9:52	13.08	10.10	7.07	3.031	-39.70	0.34	1852.1	
	2/8/2010	11:00	11:05	12.58	9.75	6.77	0.750	-36.40	1.20	779.4	
	3/8/2010	13:20	13:25	12.61	9.58	6.67	1.045	-57.90	1.33	731.7	
	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	4573.0	
	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	
	8/17/2011	14:36	14:41	12.48	15.16	6.67	1.568	-72.80	0.94	1.4	
	9/27/2011	12:37	12:42	13.38	13.12	6.97	3.188	-307.80	1.05	0.8	
	10/18/2011	11:38	11:43	12.87	14.56	7.31	7.502	-258.80	7.90	4.1	
	11/15/2011	13:43	13:48	13.21	14.78	6.96	1.124	-52.30	1.68	35.6	
	12/6/2011	10:57	11:02	13.22	13.62	6.95	2.362	-70.20	1.19	238.7	
	1/10/2012	12:42	12:47	13.01	12.10	6.94	10.050	-178.80	2.52	68.7	
	2/20/2012	12:31	12:36	13.14	9.84	7.46	0.537	-89.50	1.94	2.5	Numbers taken while system is off
	3/13/2012	9:35	9:40	12.69	8.65	6.63	0.498	-22.90	1.42	11.4	
	4/18/2012	11:54	11:59	13.90	9.54	6.80	1.629	-84.20	0.45	22.4	
	5/16/2012	12:36	12:41	12.89	10.39	8.24	0.528	3.80	1.81	0.3	
	6/11/2012	13:02	13:07	13.57	11.97	7.10	5.141	-60.90	1.65	1.1	Tubing in well
	7/11/2012	13:04	13:09	13.85	12.91	6.58	3.451	8.30	2.13	0.5	
	8/13/2012	13:43	13:48	14.01	15.17	6.59	7.794	-92.10	1.33	0.2	
	9/11/2012	11:55	12:00	13.61	15.58	6.67	4.062	-236.20	1.43	0.1	
	10/16/2012	12:15	12:20	13.62	16.00	6.51	0.869	15.10	0.49	2.3	
	11/14/2012	8:24	8:29	14.09	14.57	6.81	1.505	-143.10	0.37	1.2	
	12/4/2012	14:30	14:35	14.40	14.64	6.83	1.080	-130.30	1.02	142.2	
	3/26/2013	10:18	10:23	9.91	7.86	7.24	1.064	-15.10	3.96	0.0	
	4/23/2013	7:28	7:33	12.51	7.58	6.39	0.524	-10.50	4.92	3.2	
1795-PZ5	3/26/2013	9:50	9:55	8.09	11.76	6.98	0.062	60.10	8.44	0.1	
	4/23/2013	8:02	8:07	7.91	12.32	7.21	0.086	31.10	9.58	1.6	
1795-PZ15	3/26/2013	10:00	10:05	16.12	9.98	6.87	0.998	86.70	10.56	0.0	
	4/23/2013	8:12	8:17	16.91	10.50	6.59	1.068	49.80	11.50	0.4	

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

Monitoring Date	Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)	Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)	LNAPL Recovery (gal)
February	0.00	0.00	0
March	0.00	0.00	0
April	0.00	0.00	0
Quarter Total	0.00	0.00	0
Cumulative Total	16,143.35	2,570.60	<1

System B

Monitoring Date	Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)	Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)	LNAPL Recovery (gal)
February	78.82	12.55	0
March	68.62	10.93	0
April	20.63	3.29	0
Quarter Total	168.07	26.76	0
Cumulative Total	16,366.08	2,606.06	24.35

System C

Monitoring Date	Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)	Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)	LNAPL Recovery (gal)
February	0.42	0.07	0
March	0.18	0.03	0
April	0.00	0.00	0
Quarter Total	0.60	0.10	0
Cumulative Total	4,084.24	650.36	2

System D

Monitoring Date	Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)	Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)	LNAPL Recovery (gal)
February	0.00	0.00	0
March	0.00	0.00	0
April	0.00	0.00	0
Quarter Total	0.00	0.00	0
Cumulative Total	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

Description	February	March	April	Total/Average
Gallons	0	0	0	0
Hours Operated	0	0	0	0
Days Operated	0	0	0	0
Average (gal/min)	NA	NA	NA	NA

System B

Description	February	March	April	Total/Average
Gallons	51	3,120	140	3,311
Hours Operated	421	694	765	1,879
Days Operated	18	29	32	79
Average (gal/min)	0.002	0.075	0.003	0.080

System C

Description	February	March	April	Total/Average
Gallons	0	0	0	0
Hours Operated	670	688	763	2,121
Days Operated	28	29	32	89
Average (gal/min)	0.000	0.000	0.000	0.000

System D

Description	February	March	April	Total/Average
Gallons	0	0	0	NA
Hours Operated	0	0	0	NA
Days Operated	0	0	0	NA
Average (gal/min)	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 3-11
SUMMARY OF ESTIMATED CONTAMINANT REMOVAL
AAFES STATION**

Monitoring Date	Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)	Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)	LNAPL Recovery (gal)
February	0.00	0.00	0
March	0.00	0.00	0
April	0.00	0.00	0
Quarter Total	0.00	0.00	0
Cumulative Total^(a)	15,079.73	2,401.23	0

^(a) = 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).

*The system was deactivated on 3/26/11 in order to operate the ozone treatment system.

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

Description	February	March	April	Total/Average
Gallons	0	0	0	0
Hours Operated	0	0	0	0
Days Operated	0	0	0	0
Average (gal/min)	NA	NA	NA	NA

Notes:

*The system was deactivated on 3/26/11 in order to operate the ozone treatment system.

**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
	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	
	8/16/2011	13:26	13:31	23.54	10.95	7.62	0.251	18.10	10.55	0.00	
	9/26/2011	12:18	12:23	23.44	10.10	7.16	0.354	-195.30	10.99	0.00	
	10/18/2011	8:08	8:13	23.44	10.88	7.55	0.411	-78.40	9.47	0.00	
	11/14/2011	12:15	12:20	23.48	11.56	7.14	0.397	223.70	11.75	0.00	
	12/6/2011	8:00	8:05	23.33	11.69	7.06	1.215	203.80	10.08	0.10	
	1/10/2012	8:13	18:18	23.40	10.96	7.03	4.120	-14.10	7.99	0.00	
	2/20/2012	8:09	8:14	23.08	11.29	7.00	2.700	193.80	10.13	0.00	Numbers taken while systems was off
	3/13/2012	12:05	12:10	23.12	10.44	6.76	2.839	7.80	1.64	0.00	
	4/18/2012	8:54	8:59	23.39	10.65	7.44	1.182	141.90	4.52	0.00	
	5/16/2012	8:11	8:16	23.41	10.64	8.37	0.572	108.90	6.95	0.10	
	6/11/2012	10:40	10:45	23.80	11.00	8.65	0.483	-144.30	4.25	0.00	
	7/11/2012	10:47	10:52	24.22	10.99	9.89	0.839	-31.10	0.12	0.60	
	8/13/2012	8:53	8:58	24.52	11.26	7.01	2.702	97.40	6.87	0.00	
	9/12/2012	8:42	8:47	24.27	11.02	8.39	2.241	-368.10	0.87	0.00	
	10/16/2012	11:08	11:13	24.33	11.48	6.86	2.922	86.10	3.23	1.10	
	11/13/2012	8:10	8:15	24.44	11.41	6.95	2.386	142.10	5.01	2.20	
	12/4/2012	11:03	11:08	24.53	11.32	7.32	1.339	-85.00	0.57	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	
	8/16/2011	12:15	12:20	20.19	11.04	7.08	1.847	24.50	9.56	0.10	
	9/26/2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	10/18/2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	11/14/2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	12/6/2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	1/10/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	2/20/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	3/13/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	4/18/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	5/16/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	6/11/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	7/11/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	8/13/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	9/12/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	10/16/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	11/13/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	12/4/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access

**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-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		
	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		
	8/16/2011	12:00	12:05	10.49	11.80	7.05	1.563	22.50	11.13	0.00		
	9/26/2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	10/18/2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	11/14/2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	12/6/2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	1/10/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	2/20/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	3/13/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	4/18/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	5/16/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	6/11/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	7/11/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	8/13/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	9/12/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
10/16/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access	
11/13/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access	
12/4/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access	

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 and LNAL Gauging Data

Table A-1
Area 1295 Ozone Injection System
Feb 2013 - Apr 2013 O&M Data
Fort Drum, NY

Date	Time	System Condition	Injecting at Point	Air Flow Rate (scfm)	Air Flow Pressure (psi)	Notes
02/01/13	710	On	10.0	1.7	2.0	
02/04/13	710	On	10.0	1.8	2.0	
02/05/13	715	On	2.0	2.3	2.0	
02/06/13	715	On	2.0	2.3	1.5	
02/07/13	705	On	10.0	1.3	1.5	
02/08/13	740	On	2.0	2.5	2.0	
02/11/13	720	On	2.0	2.1	1.5	
02/12/13	755	On	2.0	1.2	2.5	
02/13/13	740	On	2.0	2.7	2.0	
02/14/13	707	On	10.0	1.6	2.0	
02/15/13	707	On	10.0	1.2	1.2	
02/18/13	722	On	2.0	2.7	2.0	
02/19/13	710	On	10.0	1.5	1.6	
02/20/13	728	On	2.0	2.3	1.6	
02/21/13	736	On	2.0	2.2	1.6	
02/22/13	647	On	10.0	1.2	1.2	
02/25/13	715	On	2.0	3.0	2.2	
02/26/13	753	On	2.0	2.9	2.2	
02/27/13	1124	On	8.0	2.3	4.0	
02/28/13	720	On	2.0	2.3	1.8	
03/01/13	726	On	2.0	3.1	2.6	
03/04/13	721	On	2.0	3.3	2.6	
03/05/13	741	On	2.0	3.3	2.7	
03/06/13	739	On	2.0	3.3	2.7	
03/07/13	744	On	2.0	3.3	2.8	
03/08/13	737	On	2.0	3.3	2.6	
03/11/13	743	On	10.0	1.1	1.0	
03/12/13	741	On	5.0	2.1	2.5	
03/13/13	711	On	1.0	2.2	4.5	
03/14/13	745	On	10.0	1.1	1.8	
03/15/13	750	On	10.0	1.1	1.6	
03/18/13	740	On	5.0	2.0	2.4	
03/19/13	729	On	5.0	2.1	2.5	
03/20/13	658	On	1.0	2.3	4.0	
03/21/13	735	On	5.0	2.2	2.5	
03/22/13	746	On	10.0	1.0	1.0	
03/25/13	855	On	7.0	1.0	3.0	
03/26/13	650	On	1.0	2.9	5.0	
03/27/13	612	On	4.0	1.4	3.5	
03/28/13	624	On	4.0	1.4	3.5	
03/29/13	644	On	1.0	2.5	5.0	
04/01/13	624	On	4.0	1.4	3.5	
04/02/13	603	On	4.0	1.5	2.5	
04/03/13	618	On	4.0	1.4	4.0	
04/04/13	657	On	1.0	2.5	4.5	
04/05/13	610	On	4.0	1.4	4.0	
04/08/13	624	On	4.0	1.4	3.0	
04/09/13	636	On	4.0	1.4	3.0	
04/10/13	645	On	1.0	2.5	4.5	
04/11/13	642	On	1.0	1.9	3.5	
04/12/13	645	On	1.0	2.5	4.5	
04/15/13	640	On	1.0	2.2	4.0	
04/16/13	642	On	1.0	2.2	4.5	
04/17/13	650	On	1.0	2.6	5.0	
04/18/13	655	On	1.0	2.6	5.0	
04/19/13	657	On	1.0	2.0	4.0	
04/22/13	652	On	1.0	2.0	4.0	
04/23/13	629	On	4.0	1.2	4.0	
04/24/13	656	On	1.0	2.0	4.0	
04/25/13	718	On	5.0	2.0	2.5	
04/26/13	803	On	10.0	1.0	1.0	
04/29/13	600	On	3.0	2.0	2.5	
04/30/13	552	On	3.0	2.6	2.5	

Notes:
NR = Not Recorded.
scfm = Standard Cubic Feet per Minute
psi = Pressure per Square Inch

Table A-2
 LNAPL Gauging
 Historic 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	2/1/2013	NA	10.72	NA	13.25	
1595	4-5S	2/1/2013	-	10.21	0.00	14.14	
1595	MWS8	2/1/2013	-	8.48	0.00	18.80	
1795	PZ-17	2/1/2013	-	13.20	0.00	NR	
1795	5-4m	2/1/2013	-	8.05	0.00	12.20	
1795	5-5m	2/1/2013	-	12.88	-	16.89	
1795	MWS6	2/1/2013	-	10.19	0.00	NR	
1795	PZ-6	2/1/2013	-	14.12	0.00	NR	
3805B	5-5M	2/1/2013	-	15.11	0.00	21.76	
3805B	5-8M	2/1/2013	-	15.65	0.00	22.35	
3805B	6-2M	2/1/2013	-	14.26	0.00	20.30	
3805B	6-10M	2/1/2013	-	15.60	0.00	21.74	
3805B	9-1M	2/1/2013	-	12.11	0.00	18.90	
3805B	PZ-10-2	2/1/2013	-	14.56	0.00	21.60	

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	-	-
	08/11/2011	623.15	NR	-	NR	-	-
	09/30/2011	623.15	4.34	618.81	-	-	618.81
	10/19/2011	623.15	4.16	618.99	-	-	618.99
	11/17/2011	623.15	4.68	618.47	-	-	618.47
	12/07/2011	623.15	4.77	618.38	-	-	618.38
	01/09/2012	623.15	NR	-	NR	-	-
	02/15/2012	623.15	NR	-	NR	-	-
	03/12/2012	623.15	NR	-	NR	-	-
	04/17/2012	623.15	NR	-	NR	-	-
	05/17/2012	623.15	NR	-	NR	-	-
	06/14/2012	623.15	4.14	619.01	-	-	619.01
	07/11/2012	623.15	4.62	618.53	-	-	618.53
	08/16/2012	623.15	4.93	618.22	-	-	618.22
	09/13/2012	623.15	5.93	617.22	-	-	617.22
	10/18/2012	623.15	5.86	617.29	-	-	617.29
	11/15/2012	623.15	5.95	617.20	-	-	617.20
	12/06/2012	623.15	6.11	617.04	-	-	617.04

**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)
1595-1-2S	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
	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	-	-
	08/11/2011	625.48	NR	-	NR	-	-
	09/30/2011	625.48	6.88	618.60	-	-	618.60
	10/19/2011	625.48	6.71	618.77	-	-	618.77
	11/17/2011	625.48	7.28	618.20	-	-	618.20
	12/07/2011	625.48	7.03	618.45	-	-	618.45
	01/09/2012	625.48	NR	-	NR	-	-
	02/15/2012	625.48	NR	-	NR	-	-
	03/12/2012	625.48	NR	-	NR	-	-
	04/17/2012	623.15	NR	-	NR	-	-
	05/17/2012	623.15	NR	-	NR	-	-
	06/14/2012	623.15	6.98	616.17	-	-	616.17
	07/11/2012	623.15	7.35	615.80	-	-	615.80
	08/16/2012	623.15	7.74	615.41	-	-	615.41
	09/13/2012	623.15	7.53	615.62	-	-	615.62
	10/18/2012	623.15	7.41	615.74	-	-	615.74
	11/15/2012	623.15	7.63	615.52	-	-	615.52
	12/06/2012	623.15	7.82	615.33	-	-	615.33

**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)	
1595-1-3S	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	
	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	-	-	
08/11/2011	634.07	NR	-	-	NR	-	-	
09/30/2011	634.07	13.08	620.99	-	-	620.99		
10/19/2011	634.07	13.17	620.90	-	-	620.90		
11/17/2011	634.07	13.77	620.30	-	-	620.30		
12/07/2011	634.07	14.54	619.53	-	-	619.53		
01/09/2012	634.07	NR	-	-	NR	-	-	
02/15/2012	634.07	NR	-	-	NR	-	-	
03/12/2012	634.07	NR	-	-	NR	-	-	
04/17/2012	623.15	NR	-	-	NR	-	-	
05/17/2012	623.15	NR	-	-	NR	-	-	
06/14/2012	623.15	13.38	609.77	-	-	609.77		
07/11/2012	623.15	13.80	609.35	-	-	609.35		
08/16/2012	623.15	14.06	609.09	-	-	609.09		

**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)
	09/13/2012	623.15	14.20	608.95	-	-	608.95
	10/18/2012	623.15	14.13	609.02	-	-	609.02
	11/15/2012	623.15	14.44	608.71	-	-	608.71
	12/06/2012	623.15	14.53	608.62	-	-	608.62
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	-	-
	08/11/2011	629.84	NR	-	NR	-	-
	09/30/2011	629.84	6.91	622.93	-	-	622.93
	10/19/2011	629.84	6.89	622.95	-	-	622.95
	11/17/2011	629.84	7.49	622.35	-	-	622.35
	12/07/2011	629.84	7.05	622.79	-	-	622.79
	01/09/2012	629.84	NR	-	NR	-	-
	02/15/2012	629.84	NR	-	NR	-	-
	03/12/2012	629.84	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)
	04/17/2012	623.15	NR	-	NR	-	-
	05/17/2012	623.15	NR	-	NR	-	-
	06/14/2012	623.15	7.45	615.70	-	-	615.70
	07/11/2012	623.15	7.82	615.33	-	-	615.33
	08/16/2012	623.15	8.03	615.12	-	-	615.12
	09/13/2012	623.15	8.10	615.05	-	-	615.05
	10/18/2012	623.15	8.04	615.11	-	-	615.11
	11/15/2012	623.15	8.27	614.88	-	-	614.88
	12/06/2012	623.15	8.44	614.71	-	-	614.71
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	-	-
	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	-	-
	08/11/2011	631.58	NR	-	NR	-	-
	09/30/2011	631.58	7.04	624.54	-	-	624.54
	10/19/2011	631.58	7.13	624.45	-	-	624.45
	11/17/2011	631.58	7.72	623.86	-	-	623.86
	12/07/2011	631.58	7.29	624.29	-	-	624.29
	01/09/2012	631.58	NR	-	NR	-	-
	02/15/2012	631.58	NR	-	NR	-	-
	03/12/2012	631.58	NR	-	NR	-	-
	04/17/2012	623.15	NR	-	NR	-	-
	05/17/2012	623.15	NR	-	NR	-	-
	06/14/2012	623.15	8.78	614.37	-	-	614.37

**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)
	07/11/2012	623.15	8.18	614.97	-	-	614.97
	08/16/2012	623.15	7.94	615.21	-	-	615.21
	09/13/2012	623.15	8.58	614.57	8.50	0.08	614.65
	10/18/2012	623.15	8.46	614.69	-	-	614.69
	11/15/2012	623.15	8.60	614.55	-	-	614.55
	12/06/2012	623.15	8.81	614.34	-	-	614.34
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
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

**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)
	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	-	-
	08/11/2011	632.99	NR	-	NR	-	-
	09/30/2011	632.99	7.31	625.68	-	-	625.68
	10/19/2011	632.99	7.99	625.00	-	-	625.00
	11/17/2011	632.99	7.33	625.66	-	-	625.66
	12/07/2011	632.99	7.22	625.77	-	-	625.77
	01/09/2012	632.99	NR	-	NR	-	-
	02/15/2012	632.99	NR	-	NR	-	-
	03/12/2012	632.99	NR	-	NR	-	-
	04/17/2012	623.15	NR	-	NR	-	-
	05/17/2012	623.15	NR	-	NR	-	-
	06/14/2012	623.15	7.16	615.99	-	-	615.99
	07/11/2012	623.15	7.64	615.51	-	-	615.51
	08/16/2012	623.15	7.99	615.16	-	-	615.16
	09/13/2012	623.15	8.28	614.87	-	-	614.87
	10/18/2012	623.15	8.11	615.04	-	-	615.04
	11/15/2012	623.15	8.29	614.86	-	-	614.86
	12/06/2012	623.15	8.36	614.79	-	-	614.79
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
	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

**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)
	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	-	-
	08/11/2011	634.24	NR	-	NR	-	-
	09/30/2011	634.24	6.23	628.01	-	-	628.01
	10/19/2011	634.24	6.04	628.20	-	-	628.20
	11/17/2011	634.24	6.36	627.88	-	-	627.88
	12/07/2011	634.24	6.24	628.00	-	-	628.00
	01/09/2012	634.24	NR	-	NR	-	-
	02/15/2012	634.24	NR	-	NR	-	-
	03/12/2012	634.24	NR	-	NR	-	-
	04/17/2012	623.15	NR	-	NR	-	-
	05/17/2012	623.15	NR	-	NR	-	-
	06/14/2012	623.15	6.21	616.94	-	-	616.94
	07/11/2012	623.15	6.79	616.36	-	-	616.36
	08/16/2012	623.15	6.79	616.36	-	-	616.36
	09/13/2012	623.15	7.29	615.86	-	-	615.86
	10/18/2012	623.15	7.31	615.84	-	-	615.84
	11/15/2012	623.15	7.66	615.49	-	-	615.49
	12/06/2012	623.15	7.91	615.24	-	-	615.24
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

**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)
	03/27/2009	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
	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	-	-
	08/11/2011	634.73	NR	-	NR	-	-
	09/30/2011	634.73	6.96	627.77	-	-	627.77
	10/19/2011	634.73	7.69	627.04	-	-	627.04
	11/17/2011	634.73	8.16	626.57	-	-	626.57
	12/07/2011	634.73	8.05	626.68	-	-	626.68
	01/09/2012	634.73	NR	-	NR	-	-
	02/15/2012	634.73	NR	-	NR	-	-
	03/12/2012	634.73	NR	-	NR	-	-
	04/17/2012	623.15	NR	-	NR	-	-
	05/17/2012	623.15	NR	-	NR	-	-
	06/14/2012	623.15	8.28	614.87	8.26	0.02	614.85
	07/11/2012	623.15	8.84	614.31	8.75	0.09	614.40
	08/16/2012	623.15	8.92	614.23	8.81	0.11	614.34
	09/13/2012	623.15	9.18	613.97	-	-	613.97
	10/18/2012	623.15	9.14	614.01	-	-	614.01
	11/15/2012	623.15	9.24	613.91	-	-	613.91
	12/06/2012	623.15	9.43	613.72	-	-	613.72
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

**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	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	-	-
	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	-	-
	08/11/2011	637.64	NR	-	NR	-	-
	09/30/2011	637.64	9.26	628.38	-	-	628.38
	10/19/2011	637.64	10.04	627.60	-	-	627.60
	11/17/2011	637.64	10.51	627.13	-	-	627.13
	12/07/2011	637.64	10.46	627.18	-	-	627.18
	01/09/2012	637.64	NR	-	NR	-	-
	02/15/2012	637.64	NR	-	NR	-	-
	03/12/2012	637.64	NR	-	NR	-	-
	04/17/2012	623.15	NR	-	NR	-	-
	05/17/2012	623.15	NR	-	NR	-	-
	06/14/2012	623.15	10.73	612.42	10.58	0.15	612.57
	07/11/2012	623.15	11.24	611.91	11.11	0.13	612.04
	08/16/2012	623.15	11.46	611.69	11.36	0.10	611.79
	09/13/2012	623.15	NR	-	NR	-	-
	10/18/2012	623.15	11.42	611.73	-	-	611.73
	11/15/2012	623.15	11.71	611.44	-	-	611.44
	12/06/2012	623.15	11.83	611.32	-	-	611.32
1595-4-5S	11/30/2005	636.66	10.00	626.66	-	-	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

**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)
	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	-	-
	08/11/2011	636.66	NR	-	NR	-	-
	09/30/2011	636.66	8.62	628.04	-	-	628.04
	10/19/2011	636.66	9.64	627.02	-	-	627.02
	11/17/2011	636.66	9.79	626.87	-	-	626.87
	12/07/2011	636.66	9.91	626.75	-	-	626.75
	01/09/2012	636.66	NR	-	NR	-	-
	02/15/2012	636.66	NR	-	NR	-	-
	03/12/2012	636.66	NR	-	NR	-	-
	04/17/2012	623.15	NR	-	NR	-	-
	05/17/2012	623.15	NR	-	NR	-	-
	06/14/2012	623.15	9.98	613.17	-	-	613.17
	07/11/2012	623.15	10.38	612.77	-	-	612.77
	08/16/2012	623.15	10.51	612.64	-	-	612.64
	09/13/2012	623.15	11.01	612.14	-	-	612.14
	10/18/2012	623.15	10.98	612.17	-	-	612.17
	11/15/2012	623.15	11.13	612.02	-	-	612.02
	12/06/2012	623.15	11.31	611.84	-	-	611.84
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
	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

**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)
	12/14/2009	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	-	-
	08/11/2011	637.66	NR	-	NR	-	-
	09/30/2011	637.66	9.29	628.37	-	-	628.37
	10/19/2011	637.66	9.72	627.94	-	-	627.94
	11/17/2011	637.66	9.91	627.75	-	-	627.75
	12/07/2011	637.66	9.97	627.69	-	-	627.69
	01/09/2012	637.66	NR	-	NR	-	-
	02/15/2012	637.66	NR	-	NR	-	-
	03/12/2012	637.66	NR	-	NR	-	-
	04/17/2012	623.15	NR	-	NR	-	-
	05/17/2012	623.15	NR	-	NR	-	-
	06/14/2012	623.15	9.22	613.93	-	-	613.93
	07/11/2012	623.15	10.25	612.90	-	-	612.90
	08/16/2012	623.15	10.31	612.84	-	-	612.84
	09/13/2012	623.15	9.89	613.26	-	-	613.26
	10/18/2012	623.15	9.80	613.35	-	-	613.35
	11/15/2012	623.15	9.99	613.16	-	-	613.16
	12/06/2012	623.15	10.16	612.99	-	-	612.99
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

**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)
1595-5-4S	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
	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

**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)
	05/11/2006	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
	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	-	-	-	-
	5/8/22/2007	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	-	-	-	-

**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-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
	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

**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)
	01/28/2003	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
	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

**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)
	04/08/2005	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
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

**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)
	04/08/2005	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
	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	-	-
	08/11/2011	637.98	NR	-	NR	-	-
	09/30/2011	637.98	10.54	627.44	10.06	0.48	627.92
	10/19/2011	637.98	11.11	626.87	10.90	0.21	627.08
	11/17/2011	637.98	11.36	626.62	11.31	0.05	626.67
	12/07/2011	637.98	11.23	626.75	NR	-	626.75
	01/09/2012	637.98	NR	-	NR	-	-
	02/15/2012	637.98	NR	-	NR	-	-
	03/12/2012	637.98	NR	-	NR	-	-
	04/17/2012	623.15	NR	-	NR	-	-
	05/17/2012	623.15	NR	-	NR	-	-
	06/14/2012	623.15	11.45	611.70	-	-	611.70
	07/11/2012	623.15	11.98	611.17	-	-	611.17
	08/16/2012	623.15	12.22	610.93	-	-	610.93
	09/13/2012	623.15	12.35	610.80	-	-	610.80
	10/18/2012	623.15	12.31	610.84	-	-	610.84
	11/15/2012	623.15	12.50	610.65	-	-	610.65
	12/06/2012	623.15	12.63	610.52	-	-	610.52
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

**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)
	01/22/2003	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
	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	-	-	-	-

**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-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
	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	

**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)
	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	-	-	-	-
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

**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)
	04/08/2005	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
	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

**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	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
	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

**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)
	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
Well Decommissioned During Construction of AA/SVE System							
1595-RW2	09/15/2004	NR	8.86	-	-	-	-
	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

**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)
	05/19/2005	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
	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

**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)
	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
	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

**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)
	12/17/2002	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
	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

Table B-2
Site 1595
Historic O&M Data
Fort Drum, NY

Date	Time	System Condition	SVE Hour Meter	SVE Hours Operated	Sparge Hour Meter	Sparge Hours Operated	SVE Influent Vacuum (in Hg)	SVE Influent Temperature (F)	Barometric Pressure (in Hg)	SVE Effluent Pressure (psi)	SVE Effluent Temperature (F)	SVE Differential Pressure (in H ₂ O)	Sparge Influent Pressure (psi)	Sparge Influent Temperature (F)	Sparge Effluent Pressure (in H ₂ O)	Sparge Effluent Temperature (F)	Sparge Differential Pressure (in H ₂ O)	OWS Cumulative Flow* (gallons)	Air Flow (cfm)	System Effluent (ppm)	Total Mass Recovered (lbs)	Total Recovery Rate (lbs/hr)	Notes
02/01/13	0910	On	34827.2	23.8	44020.1	23.8	0.0	110	29.90	7.0	67	4.1	4.0	94	7.5	38	0.20	633491.6	640.3	2.9	0.265	0.011	
02/04/13	0910	On	34899.3	72.1	44092.2	72.1	0.0	110	29.86	7.5	68	4.4	4.0	95	7.5	40	0.20	633491.6	662.9	1.7	0.488	0.007	
02/05/13	0905	On	34923.2	23.9	44116.1	23.9	0.0	108	29.94	7.5	60	4.1	5.0	86	7.5	30	0.20	633491.6	641.9	3.0	0.276	0.012	
02/06/13	0845	On	34946.8	23.6	44139.7	23.6	1.5	116	29.99	7.5	74	4.4	4.0	104	7.5	48	0.20	633491.6	660.9	2.8	0.262	0.011	
02/07/13	0805	On	34970.2	23.4	44163.1	23.4	0.0	105	30.40	7.5	60	4.2	5.0	84	7.5	32	0.20	633491.6	656.4	4.8	0.442	0.019	
02/08/13	1235	On	34998.8	28.6	44191.7	28.6	1.5	112	30.05	7.5	68	4.2	4.0	98	7.0	40	0.20	633491.6	648.6	3.9	0.434	0.015	
02/11/13	1250	On	35071.0	72.2	44263.9	72.2	2.0	113	29.70	7.5	80	4.7	3.0	117	7.0	55	0.20	633491.6	681.5	9.0	2.657	0.037	
02/12/13	0925	On	35091.6	20.6	44284.5	20.6	1.5	109	29.71	7.5	76	4.7	3.0	112	7.0	52	0.20	633491.6	684.0	3.1	0.262	0.013	
02/13/13	1000	On	35116.3	24.7	44309.2	24.7	0.0	108	29.83	7.5	76	4.8	3.0	110	7.0	51	0.20	633491.6	693.2	1.6	0.164	0.007	
02/14/13	0900	On	35139.1	22.8	44332.0	22.8	0.0	108	29.87	7.5	76	4.8	3.0	111	7.0	50	0.20	633491.6	693.7	3.0	0.285	0.012	
02/15/13	0912	On	35163.3	24.2	44356.2	24.2	1.5	112	29.86	7.5	80	4.6	3.0	115	7.0	54	0.20	633491.6	676.6	3.8	0.373	0.015	
02/18/13	0943	On	35236.0	72.7	44428.9	72.7	0.0	99	30.20	7.5	59	4.8	5.0	86	7.5	30	0.20	633491.6	703.1	5.5	1.687	0.023	
02/19/13	0910	On	35259.3	23.3	44452.2	23.3	1.5	108	29.67	7.5	76	4.7	3.0	113	7.0	50	0.30	633491.6	684.1	3.9	0.373	0.016	
02/20/13	1255	On	35287.1	27.8	44480.0	27.8	0.0	104	29.79	7.5	74	4.6	3.5	105	7.0	48	0.20	633491.6	680.6	8.0	0.908	0.033	
02/21/13	1001	On	35308.1	21.0	44501.0	21.0	0.0	96	30.09	7.5	63	4.8	4.5	90	7.0	36	0.50	633491.6	703.7	3.1	0.275	0.013	
02/22/13	1019	On	35332.6	24.5	44525.5	24.5	0.0	103	30.28	7.5	72	4.8	4.0	102	7.0	46	0.30	633491.6	701.5	3.2	0.330	0.013	
02/25/13	0911	On	35403.3	70.7	44596.2	70.7	1.5	110	30.12	8.0	78	4.8	3.0	113	7.0	54	0.30	633491.6	695.4	2.7	0.796	0.011	
02/26/13	0925	On	35427.5	24.2	44620.4	24.2	0.0	105	30.17	7.5	70	4.8	3.5	107	7.0	42	0.20	633491.6	699.0	2.5	0.254	0.010	
02/27/13	1245	On	35454.7	27.2	44647.6	27.2	0.9	113	29.66	8.0	80	4.7	3.0	117	7.0	57	0.30	633491.6	681.0	3.5	0.389	0.014	
02/28/13	0703	On	35473.1	18.4	44666.0	18.4	1.5	111	29.60	8.0	78	4.7	3.0	114	7.0	53	0.20	633491.6	681.5	7.4	0.557	0.030	
03/01/13	0657	On	35497.0	23.9	44689.9	23.9	1.5	110	29.76	8.0	78	4.7	3.0	112	7.0	53	0.20	633491.6	684.0	4.9	0.481	0.020	
03/04/13	0657	On	35569.1	72.1	44762.0	72.1	0.0	101	29.90	7.8	68	4.8	4.0	97	7.0	42	0.20	633491.6	698.4	4.1	1.239	0.017	
03/05/13	0748	On	35593.9	24.8	44786.8	24.8	0.0	103	30.07	8.0	69	4.9	4.0	103	7.5	44	0.20	633491.6	706.4	3.9	0.410	0.017	
03/06/13	0718	On	35617.4	23.5	44810.3	23.5	0.0	105	30.12	8.0	71	4.8	4.0	106	7.0	45	0.20	633491.6	698.5	5.3	0.522	0.022	
03/07/13	0726	On	35641.2	23.8	44834.1	23.8	2.0	109	30.24	8.0	77	4.8	3.0	113	7.0	52	0.20	633491.6	697.4	3.9	0.388	0.016	
03/08/13	0715	On	35665.0	23.8	44857.9	23.8	1.0	106	30.30	8.0	73	4.9	4.0	108	7.5	48	0.20	633491.6	707.2	3.5	0.353	0.015	
03/11/13	0708	On	35735.9	70.9	44928.8	70.9	3.0	115	29.90	8.0	82	4.8	2.0	120	7.0	54	0.30	633491.6	689.8	4.1	1.203	0.017	
03/12/13	0723	On	35760.2	24.3	44953.1	24.3	3.0	117	29.81	8.0	85	4.7	2.0	122	7.0	60	0.20	633491.6	680.4	2.6	0.258	0.011	
03/13/13	0655	On	35783.7	23.5	44976.6	23.5	2.0	111	29.83	8.0	79	4.8	3.0	115	7.5	54	0.20	633491.6	691.4	3.1	0.302	0.013	
03/14/13	0711	On	35808.0	24.3	45000.9	24.3	0.0	101	29.91	8.0	68	4.9	4.0	98	7.5	40	0.20	633491.6	705.7	1.5	0.154	0.006	
03/15/13	0724	On	35832.2	24.2	45025.1	24.2	0.0	102	29.70	8.0	67	4.8	4.0	99	7.5	40	0.20	633491.6	695.4	1.2	0.121	0.005	
03/18/13	0704	On	35903.7	71.5	45096.6	71.5	0.0	96	30.14	8.0	62	4.8	4.0	92	7.5	34	0.20	633491.6	704.3	1.1	0.332	0.005	
03/19/13	1112	On	35931.8	28.1	45124.7	28.1	2.5	110	29.76	8.0	80	4.7	3.0	116	7.5	54	0.20	633491.6	684.0	0.6	0.069	0.002	
03/20/13	0636	On	35951.2	19.4	45144.1	19.4	1.5	105	29.75	8.0	71	4.7	3.0	107	7.5	47	0.20	633491.6	686.9	1.1	0.088	0.005	
03/21/13	0710	On	35975.8	24.6	45168.7	24.6	0.0	102	29.71	8.0	69	4.8	4.0	100	7.5	42	0.20	633491.6	695.5	1.4	0.144	0.006	
03/22/13	0718	On	35999.9	24.1	45192.8	24.1	1.5	106	29.72	8.0	73	4.7	3.0	108	7.5	48	0.20	633491.6	685.9	1.4	0.139	0.006	
03/25/13	0910	Off	NR	NR	NR	NR	NR	NR	29.70	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
03/26/13	NR	Off	NR	NR	NR	NR	NR	NR	29.80	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
03/27/13	NR	Off	NR	NR	NR	NR	NR	NR	29.94	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
03/28/13	NR	Off	NR	NR	NR	NR	NR	NR	30.07	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
03/29/13	NR	Off	NR	NR	NR	NR	NR	NR	30.14	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
04/01/13	NR	Off	NR	NR	NR	NR	NR	NR	29.62	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
04/02/13	NR	Off	NR	NR	NR	NR	NR	NR	29.92	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
04/03/13	NR	Off	NR	NR	NR	NR	NR	NR	30.14	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
04/04/13	NR	Off	NR	NR	NR	NR	NR	NR	30.16	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
04/05/13	NR	Off	NR	NR	NR	NR	NR	NR	29.91	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
04/08/13	NR	Off	NR	NR	NR	NR	NR	NR	30.01	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
04/09/13	NR	Off	NR	NR	NR	NR	NR	NR	29.92	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
04/10/13	NR	Off	NR	NR	NR	NR	NR	NR	29.99	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
04/11/13	NR	Off	NR	NR	NR	NR	NR	NR	30.13	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
04/12/13	NR	Off	NR	NR	NR	NR	NR	NR	29.79	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
04/15/13	NR	Off	NR	NR	NR	NR	NR	NR	30.19	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
04/16/13	NR	Off	NR	NR	NR	NR	NR	NR	30.00	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
04/17/13	NR	Off	NR	NR	NR	NR	NR	NR	30.31	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
04/18/13	NR	Off	NR	NR	NR	NR	NR	NR	30.04	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
04/19/13	NR	Off	NR	NR	NR	NR	NR	NR	29.55	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
04/22/13	NR	Off	NR	NR	NR	NR	NR	NR	30.55	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
04/23/13	NR	Off	NR	NR	NR	NR	NR	NR	30.26	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
04/24/13	NR	Off	NR	NR	NR	NR	NR	NR	29.73	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation
04/25/13	NR	Off	NR	NR	NR	NR	NR	NR	30.12	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	System deactivated for bio augmentation

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
	08/11/2011	652.54	8.36	644.18	-	-	644.18
	09/30/2011	652.54	9.39	643.15	-	-	643.15
	10/19/2011	652.54	9.92	642.62	-	-	642.62
	11/17/2011	652.54	9.99	642.55	-	-	642.55
	12/07/2011	652.54	10.65	641.89	-	-	641.89
01/09/2012	652.54	9.98	642.56	-	-	642.56	
02/15/2012	652.54	9.69	642.85	-	-	642.85	
03/12/2012	652.54	9.50	643.04	-	-	643.04	
04/17/2012	652.54	10.55	641.99	-	-	641.99	
05/17/2012	652.54	9.82	642.72	-	-	642.72	
06/14/2012	652.54	10.45	642.09	-	-	642.09	
07/11/2012	652.54	11.03	641.51	-	-	641.51	
08/16/2012	652.54	11.66	640.88	-	-	640.88	
09/13/2012	652.54	11.08	641.46	-	-	641.46	
10/18/2012	652.54	10.89	641.65	-	-	641.65	
11/15/2012	652.54	11.04	641.50	-	-	641.50	
12/06/2012	652.54	11.11	641.43	-	-	641.43	
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

**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)
	12/14/2009	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
	08/11/2011	654.56	8.01	646.55	-	-	646.55
	09/30/2011	654.56	9.79	644.77	-	-	644.77
	10/19/2011	654.56	10.17	644.39	-	-	644.39
	11/17/2011	654.56	10.28	644.28	-	-	644.28
	12/07/2011	654.56	10.91	643.65	-	-	643.65
	01/09/2012	654.56	10.29	644.27	-	-	644.27
	02/15/2012	654.56	9.98	644.58	-	-	644.58
	03/12/2012	654.56	9.91	644.65	-	-	644.65
	04/17/2012	654.56	11.33	643.23	-	-	643.23
	05/17/2012	654.56	10.21	644.35	-	-	644.35
	06/14/2012	654.56	10.93	643.63	-	-	643.63
	07/11/2012	654.56	11.21	643.35	-	-	643.35
	08/16/2012	654.56	11.61	642.95	-	-	642.95
	09/13/2012	654.56	11.33	643.23	-	-	643.23
	10/18/2012	654.56	10.99	643.57	-	-	643.57
	11/15/2012	654.56	11.26	643.30	-	-	643.30
	12/06/2012	654.56	12.43	642.13	-	-	642.13
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
	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

**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)
	07/14/2010	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
	08/11/2011	651.50	8.98	642.52	-	-	642.52
	09/30/2011	651.50	9.77	641.73	-	-	641.73
	10/19/2011	651.50	9.78	641.72	-	-	641.72
	11/17/2011	651.50	9.88	641.62	-	-	641.62
	12/07/2011	651.50	10.60	640.90	-	-	640.90
	01/09/2012	651.50	10.22	641.28	-	-	641.28
	02/15/2012	651.50	9.90	641.60	-	-	641.60
	03/12/2012	651.50	10.73	640.77	-	-	640.77
	04/17/2012	651.50	10.65	640.85	-	-	640.85
	05/17/2012	651.50	10.06	641.44	-	-	641.44
	06/14/2012	651.50	10.45	641.05	-	-	641.05
	07/11/2012	651.50	11.23	640.27	-	-	640.27
	08/16/2012	651.50	11.51	639.99	-	-	639.99
	09/13/2012	651.50	11.23	640.27	-	-	640.27
	10/18/2012	651.50	11.04	640.46	-	-	640.46
	11/15/2012	651.50	16.91	634.59	-	-	634.59
	12/06/2012	651.50	11.16	640.34	-	-	640.34
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

**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)
	04/12/2011	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
	08/11/2011	652.91	14.21	638.70	-	-	638.70
	09/30/2011	652.91	15.48	637.43	-	-	637.43
	10/19/2011	652.91	16.01	636.90	-	-	636.90
	11/17/2011	652.91	16.34	636.57	-	-	636.57
	12/07/2011	652.91	16.26	636.65	-	-	636.65
	01/09/2012	652.91	15.03	637.88	-	-	637.88
	02/15/2012	652.91	14.70	638.21	-	-	638.21
	03/12/2012	652.91	15.02	637.89	-	-	637.89
	04/17/2012	652.91	16.30	636.61	-	-	636.61
	05/17/2012	652.91	15.85	637.06	-	-	637.06
	06/14/2012	652.91	16.12	636.79	-	-	636.79
	07/11/2012	652.91	16.85	636.06	-	-	636.06
	08/16/2012	652.91	16.97	635.94	-	-	635.94
	09/13/2012	652.91	16.90	636.01	-	-	636.01
	10/18/2012	652.91	16.72	636.19	-	-	636.19
	11/15/2012	652.91	12.24	640.67	-	-	640.67
	12/06/2012	652.91	12.39	640.52	-	-	640.52
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	10.58	637.95	-	-	637.95
	01/11/2010	648.53	10.72	637.81	-	-	637.81
	02/10/2010	648.53	10.32	638.21	-	-	638.21
	03/10/2010	648.53	10.19	638.34	-	-	638.34
	04/14/2010	648.53	10.07	638.46	-	-	638.46
	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	11.52	641.44	-	-	641.44
	08/09/2010	652.96	11.69	641.27	-	-	641.27
	09/16/2010	652.96	11.15	641.81	-	-	641.81
	10/13/2010	652.96	10.26	642.70	-	-	642.70
	11/16/2010	652.96	10.96	642.00	-	-	642.00
	12/16/2010	652.96	10.36	642.60	-	-	642.60
	01/13/2011	652.96	10.66	642.30	-	-	642.30
	03/14/2011	652.96	8.94	644.02	-	-	644.02
	04/12/2011	652.96	9.23	643.73	-	-	643.73
	05/19/2011	652.96	7.68	645.28	-	-	645.28
	06/20/2011	652.96	9.09	643.87	-	-	643.87
	07/13/2011	652.96	9.62	643.34	-	-	643.34
	08/11/2011	652.96	9.66	643.30	-	-	643.30
	09/30/2011	652.96	10.68	642.28	-	-	642.28
	10/19/2011	652.96	11.14	641.82	-	-	641.82
	11/17/2011	652.96	11.26	641.70	-	-	641.70

**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)
	12/07/2011	652.96	11.75	641.21	-	-	641.21
	01/09/2012	652.96	11.09	641.87	-	-	641.87
	02/15/2012	652.96	10.76	642.20	-	-	642.20
	03/12/2012	652.96	10.58	642.38	-	-	642.38
	04/17/2012	652.96	12.10	640.86	-	-	640.86
	05/17/2012	652.96	10.97	641.99	-	-	641.99
	06/14/2012	652.96	11.35	641.61	-	-	641.61
	07/11/2012	652.96	12.13	640.83	-	-	640.83
	08/16/2012	652.96	12.41	640.55	-	-	640.55
	09/13/2012	652.96	12.35	640.61	-	-	640.61
	10/18/2012	652.96	12.11	640.85	-	-	640.85
	11/15/2012	652.96	12.01	640.95	-	-	640.95
	12/06/2012	652.96	12.11	640.85	-	-	640.85
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
	08/11/2011	653.68	9.71	643.97	-	-	643.97
	09/30/2011	653.68	10.31	643.37	-	-	643.37
	10/19/2011	653.68	10.84	642.84	-	-	642.84
	11/17/2011	653.68	10.93	642.75	-	-	642.75
	12/07/2011	653.68	11.35	642.33	-	-	642.33
	01/09/2012	653.68	10.77	642.91	-	-	642.91
	02/15/2012	653.68	10.21	643.47	-	-	643.47
	03/12/2012	653.68	10.23	643.45	-	-	643.45
	04/17/2012	653.68	11.43	642.25	-	-	642.25
	05/17/2012	653.68	10.60	643.08	-	-	643.08
	06/14/2012	653.68	11.09	642.59	-	-	642.59
	07/11/2012	653.68	11.73	641.95	-	-	641.95

**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)
	08/16/2012	653.68	12.02	641.66	-	-	641.66
	09/13/2012	653.68	11.91	641.77	-	-	641.77
	10/18/2012	653.68	11.78	641.90	-	-	641.90
	11/15/2012	653.68	11.93	641.75	-	-	641.75
	12/06/2012	653.68	12.38	641.30	-	-	641.30
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
	08/11/2011	653.93	8.40	645.53	-	-	645.53
	09/30/2011	653.93	8.19	645.74	-	-	645.74
	10/19/2011	653.93	9.06	644.87	-	-	644.87
	11/17/2011	653.93	9.07	644.86	-	-	644.86
	12/07/2011	653.93	10.05	643.88	-	-	643.88
	01/09/2012	653.93	12.83	641.10	-	-	641.10
	02/15/2012	653.93	12.67	641.26	-	-	641.26
	03/12/2012	653.93	9.64	644.29	-	-	644.29
	04/17/2012	653.93	11.14	642.79	-	-	642.79
	05/17/2012	653.93	8.64	645.29	-	-	645.29
	06/14/2012	653.93	8.95	644.98	-	-	644.98
	07/11/2012	653.93	15.03	638.90	-	-	638.90
	08/16/2012	653.93	15.41	638.52	-	-	638.52
	09/13/2012	653.93	NR	-	NR	-	-
	10/18/2012	653.93	15.01	638.92	-	-	638.92
	11/15/2012	653.93	15.47	638.46	-	-	638.46
	12/06/2012	653.93	16.00	637.93	-	-	637.93
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

**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)
	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
	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
	08/11/2011	654.68	14.01	640.67	-	-	640.67
	09/30/2011	654.68	13.01	641.67	-	-	641.67
	10/19/2011	654.68	13.84	640.84	-	-	640.84
	11/17/2011	654.68	13.90	640.78	-	-	640.78
	12/07/2011	654.68	14.02	640.66	-	-	640.66
	01/09/2012	654.68	8.40	646.28	-	-	646.28
	02/15/2012	654.68	8.27	646.41	-	-	646.41
	03/12/2012	654.68	12.44	642.24	-	-	642.24
	04/17/2012	654.68	14.11	640.57	-	-	640.57
	05/17/2012	654.68	13.60	641.08	-	-	641.08
	06/14/2012	654.68	13.97	640.71	-	-	640.71
	07/11/2012	654.68	10.02	644.66	-	-	644.66
	08/16/2012	654.68	10.53	644.15	-	-	644.15
	09/13/2012	654.68	NR	-	NR	-	-
	10/18/2012	654.68	10.36	644.32	-	-	644.32
	11/15/2012	654.68	10.56	644.12	-	-	644.12
	12/06/2012	654.68	10.63	644.05	-	-	644.05
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

**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)
	04/14/2010	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
	08/11/2011	656.61	8.93	647.68	-	-	647.68
	09/30/2011	656.61	8.14	648.47	-	-	648.47
	10/19/2011	656.61	10.15	646.46	-	-	646.46
	11/17/2011	656.61	10.14	646.47	-	-	646.47
	12/07/2011	656.61	10.53	646.08	-	-	646.08
	01/09/2012	656.61	9.60	647.01	-	-	647.01
	02/15/2012	656.61	9.18	647.43	-	-	647.43
	03/12/2012	656.61	9.04	647.57	-	-	647.57
	04/17/2012	656.61	9.90	646.71	-	-	646.71
	05/17/2012	656.61	8.54	648.07	-	-	648.07
	06/14/2012	656.61	9.18	647.43	-	-	647.43
	07/11/2012	656.61	9.91	646.70	-	-	646.70
	08/16/2012	656.61	10.16	646.45	-	-	646.45
	09/13/2012	656.61	9.96	646.65	-	-	646.65
	10/18/2012	656.61	9.63	646.98	-	-	646.98
	11/15/2012	656.61	9.81	646.80	-	-	646.80
	12/06/2012	656.61	10.04	646.57	-	-	646.57
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	

**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)
	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
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

**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)
	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
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

**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)
	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
	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	-	-	-	-

**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-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-MWS12	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
	04/19/2005	644.91	12.01	632.90	-	-	632.90

**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)
	05/03/2005	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	-	-	-	-

**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-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	-	-	-	-
	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	

**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)
	12/09/2005	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
	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

**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	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
	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

**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	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
	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

**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)
	05/03/2005	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

**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-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
	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	

**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)
	05/12/2010	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
	08/11/2011	648.51	10.71	637.80	-	-	637.80
	09/30/2011	648.51	10.64	637.87	-	-	637.87
	10/19/2011	648.51	11.32	637.19	-	-	637.19
	11/17/2011	648.51	11.40	637.11	-	-	637.11
	12/07/2011	648.51	12.02	636.49	-	-	636.49
	01/09/2012	648.51	11.30	637.21	-	-	637.21
	02/15/2012	648.51	12.96	635.55	-	-	635.55
	03/12/2012	648.51	10.75	637.76	-	-	637.76
	04/17/2012	648.51	12.27	636.24	-	-	636.24
	05/17/2012	648.51	11.14	637.37	-	-	637.37
	06/14/2012	648.51	17.21	631.30	-	-	631.30
	07/11/2012	648.51	18.48	630.03	-	-	630.03
	08/16/2012	648.51	18.04	630.47	-	-	630.47
	09/13/2012	648.51	12.50	636.01	-	-	636.01
	11/15/2012	648.51	12.62	635.89	-	-	635.89
	12/06/2012	648.51	12.73	635.78	-	-	635.78
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
	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

**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)
	12/09/2005	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
	08/11/2011	652.82	16.30	636.52	-	-	636.52
	09/30/2011	652.82	16.04	636.78	-	-	636.78
	10/19/2011	652.82	17.11	635.71	-	-	635.71
	11/17/2011	652.82	17.31	635.51	-	-	635.51
	12/07/2011	652.82	17.83	634.99	-	-	634.99
	01/09/2012	652.82	17.03	635.79	-	-	635.79

**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)
	02/15/2012	652.82	16.21	636.61	-	-	636.61
	03/12/2012	652.82	16.50	636.32	-	-	636.32
	04/17/2012	652.82	17.80	635.02	-	-	635.02
	05/17/2012	652.82	16.83	635.99	-	-	635.99
	06/14/2012	652.82	11.58	641.24	-	-	641.24
	07/11/2012	652.82	17.90	634.92	-	-	634.92
	08/16/2012	652.82	14.23	638.59	-	-	638.59
	09/13/2012	652.82	18.35	634.47	-	-	634.47
	11/15/2012	652.82	18.23	634.59	-	-	634.59
	12/06/2012	652.82	18.41	634.41	-	-	634.41
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

**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)
	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
	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

**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)
	03/21/2006	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
	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

**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	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
	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

**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)
	02/07/2003	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

**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)
	12/16/2010	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
	08/11/2011	648.42	12.11	636.31	-	-	636.31
	09/30/2011	648.42	12.06	636.36	-	-	636.36
	10/19/2011	648.42	13.08	635.34	-	-	635.34
	11/17/2011	648.42	13.20	635.22	-	-	635.22
	12/07/2011	648.42	13.76	634.66	-	-	634.66
	01/09/2012	648.42	13.03	635.39	-	-	635.39
	02/15/2012	648.42	12.07	636.35	-	-	636.35
	03/12/2012	648.42	12.43	635.99	-	-	635.99
	04/17/2012	648.42	13.73	634.69	-	-	634.69
	05/17/2012	648.42	12.75	635.67	-	-	635.67
	06/14/2012	648.42	13.07	635.35	-	-	635.35
	07/11/2012	648.42	13.84	634.58	-	-	634.58
	08/16/2012	648.42	15.51	632.91	-	-	632.91
	09/13/2012	648.42	14.35	634.07	-	-	634.07
	11/15/2012	648.42	14.61	633.81	-	-	633.81
	12/06/2012	648.42	14.77	633.65	-	-	633.65
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

**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-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	
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	

**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)
	05/12/2010	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
	08/11/2011	653.99	10.65	643.34	-	-	643.34
	10/19/2011	653.99	17.34	636.65	-	-	636.65
	11/17/2011	653.99	17.49	636.50	-	-	636.50
	12/07/2011	653.99	18.01	635.98	-	-	635.98
	01/09/2012	653.99	17.21	636.78	-	-	636.78
	02/15/2012	653.99	16.39	637.60	-	-	637.60
	03/12/2012	653.99	16.75	637.24	-	-	637.24
	04/17/2012	653.99	18.86	635.13	-	-	635.13
	05/17/2012	653.99	17.06	636.93	-	-	636.93
	06/14/2012	653.99	17.35	636.64	-	-	636.64
	07/11/2012	653.99	18.14	635.85	-	-	635.85
	08/16/2012	653.99	12.73	641.26	-	-	641.26
	09/13/2012	653.99	18.60	635.39	-	-	635.39
	11/15/2012	653.99	18.11	635.88	-	-	635.88
	12/06/2012	653.99	18.36	635.63	-	-	635.63
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

**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)
	01/06/2006	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
	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
	08/11/2011	647.68	10.93	636.75	-	-	636.75
	09/30/2011	647.68	10.78	636.90	-	-	636.90
	10/19/2011	647.68	11.49	636.19	-	-	636.19
	11/17/2011	647.68	11.56	636.12	-	-	636.12
	12/07/2011	647.68	11.87	635.81	-	-	635.81
	01/09/2012	647.68	11.61	636.07	-	-	636.07
	02/15/2012	647.68	11.21	636.47	-	-	636.47

**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)
	03/12/2012	647.68	11.35	636.33	-	-	636.33
	04/17/2012	647.68	11.63	636.05	-	-	636.05
	05/17/2012	647.68	11.43	636.25	-	-	636.25
	06/14/2012	647.68	12.01	635.67	-	-	635.67
	07/11/2012	647.68	12.42	635.26	-	-	635.26
	08/16/2012	647.68	11.42	636.26	-	-	636.26
	09/13/2012	647.68	12.42	635.26	-	-	635.26
	11/15/2012	647.68	12.36	635.32	-	-	635.32
	12/06/2012	647.68	12.41	635.27	-	-	635.27
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
	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

**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	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	-	-	-	-

**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)
WWII004	09/15/2004	NR	19.09	.	.	.	.
	04/19/2005	NR	17.10	.	.	.	.
	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

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**

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)
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
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

**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)
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
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

**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)
	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	-	-	-	-
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	-	-	-	-

**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)
	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	-	-	-	-
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	-	-	-	-

**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)
	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	-	-
	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	-	-	-	-

**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)
	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
	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

**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)
	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	-	-	-	-
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

**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)
	04/29/2009	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
	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
	08/11/2011	659.08	14.01	645.07	-	-	645.07
	09/29/2011	659.08	13.36	645.72	-	-	645.72
	10/19/2011	659.08	15.25	643.83	-	-	643.83
	11/17/2011	659.08	15.39	643.69	-	-	643.69
	12/07/2011	659.08	15.71	643.37	-	-	643.37
	01/09/2012	659.08	15.45	643.63	-	-	643.63
	02/15/2012	659.08	14.67	644.41	-	-	644.41
	03/12/2012	659.08	NR	-	NR	-	-
	04/17/2012	659.08	12.45	646.63	-	-	646.63
	05/17/2012	659.08	NR	-	NR	-	-
	06/14/2012	659.08	12.46	646.62	-	-	646.62
	07/11/2012	659.08	12.48	646.60	-	-	646.60
	08/16/2012	659.08	12.54	646.54	-	-	646.54
	09/13/2012	659.08	16.83	642.25	-	-	642.25
	10/18/2012	659.08	16.71	642.37	-	-	642.37
	11/15/2012	659.08	16.88	642.20	-	-	642.20
	12/06/2012	659.08	17.01	642.07	-	-	642.07
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

**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)
	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
	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
	08/11/2011	659.63	13.42	646.21	-	-	646.21
	09/29/2011	659.63	15.28	644.35	-	-	644.35
	10/19/2011	659.63	12.94	646.69	-	-	646.69
	11/17/2011	659.63	12.37	647.26	-	-	647.26
	12/07/2011	659.63	12.68	646.95	-	-	646.95
	01/09/2012	659.63	12.67	646.96	-	-	646.96
	02/15/2012	659.63	12.64	646.99	-	-	646.99
	03/12/2012	659.63	NR	-	NR	-	-
	04/17/2012	659.63	15.57	644.06	-	-	644.06
	05/17/2012	659.63	NR	-	NR	-	-
	06/14/2012	659.63	16.07	643.56	-	-	643.56
	07/11/2012	659.63	16.38	643.25	-	-	643.25
	08/16/2012	659.63	16.59	643.04	-	-	643.04
	09/13/2012	659.63	12.55	647.08	-	-	647.08
	10/18/2012	659.63	12.37	647.26	-	-	647.26
	11/15/2012	659.63	12.42	647.21	-	-	647.21
	12/06/2012	659.63	12.58	647.05	-	-	647.05
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	-	-	-	-

**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)
	04/26/2006	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	-	-	-	-
	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

**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)
	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
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

**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-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
	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	-	-
	08/02/2006	652.46	23.99	628.47	-	-	628.47
09/06/2006	652.46	24.37	628.09	-	-	628.09	

**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)
	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
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	-	-

**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)
	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	-	-
	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

**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	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
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

**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)
	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	-	-
	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

**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)
	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
	08/11/2011	651.96	16.37	635.59	-	-	635.59
	09/29/2011	651.96	17.71	634.25	-	-	634.25
	10/19/2011	651.96	18.02	633.94	-	-	633.94
	11/17/2011	651.96	18.06	633.90	-	-	633.90
	12/07/2011	651.96	18.25	633.71	-	-	633.71
	01/09/2012	651.96	18.04	633.92	-	-	633.92
	02/15/2012	651.96	17.51	634.45	-	-	634.45
	03/12/2012	651.96	NR	-	NR	-	-
	04/17/2012	651.96	-	-	-	-	-
	05/17/2012	651.96	NR	-	NR	-	-
	06/14/2012	651.96	18.52	633.44	-	-	633.44
	07/11/2012	651.96	18.82	633.14	-	-	633.14
	08/16/2012	651.96	18.90	633.06	-	-	633.06
	09/13/2012	651.96	19.93	632.03	-	-	632.03
	10/18/2012	651.96	19.78	632.18	-	-	632.18
	11/15/2012	651.96	20.01	631.95	-	-	631.95
	12/06/2012	651.96	20.16	631.80	-	-	631.80
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
	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

**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)
	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
	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

**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)
	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
	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
	08/11/2011	651.76	13.27	638.49	-	-	638.49
	09/29/2011	651.76	14.83	636.93	-	-	636.93
	10/19/2011	651.76	15.11	636.65	-	-	636.65
	11/17/2011	651.76	15.31	636.45	-	-	636.45
	12/07/2011	651.76	15.43	636.33	-	-	636.33
	01/09/2012	651.76	15.22	636.54	-	-	636.54
	02/15/2012	651.76	14.57	637.19	-	-	637.19
	03/12/2012	651.76	NR	-	NR	-	-
	04/17/2012	651.76	-	-	-	-	-
	05/17/2012	651.76	NR	-	NR	-	-

**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)
	06/14/2012	651.76	15.71	636.05	-	-	636.05
	07/11/2012	651.76	16.10	635.66	-	-	635.66
	08/16/2012	651.76	16.23	635.53	-	-	635.53
	09/13/2012	651.76	16.82	634.94	-	-	634.94
	10/18/2012	651.76	16.70	635.06	-	-	635.06
	11/15/2012	651.76	16.71	635.05	-	-	635.05
	12/06/2012	651.76	16.83	634.93	-	-	634.93
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
	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

**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	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
	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
	08/11/2011	652.96	14.50	638.46	-	-	638.46
	09/29/2011	652.96	15.88	637.08	-	-	637.08
	10/19/2011	652.96	16.21	636.75	-	-	636.75
	11/17/2011	652.96	16.18	636.78	-	-	636.78
	12/07/2011	652.96	16.44	636.52	-	-	636.52
	01/09/2012	652.96	16.26	636.70	-	-	636.70
	02/15/2012	652.96	15.37	637.59	-	-	637.59
	03/12/2012	652.96	NR	-	NR	-	-
	04/17/2012	652.96	-	-	-	-	-
	05/17/2012	652.96	NR	-	NR	-	-
	06/14/2012	652.96	16.81	636.15	-	-	636.15
	07/11/2012	652.96	17.02	635.94	-	-	635.94
	08/16/2012	652.96	17.14	635.82	-	-	635.82
	09/13/2012	652.96	17.73	635.23	-	-	635.23

**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)
	10/18/2012	652.96	17.69	635.27	-	-	635.27
	11/15/2012	652.96	18.87	634.09	-	-	634.09
	12/06/2012	652.96	17.94	635.02	-	-	635.02
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	-	-
	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

**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)
	01/09/2007	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
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	-	-

**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)
	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
	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
	08/11/2011	655.53	13.31	642.22	-	-	642.22
	09/29/2011	655.53	16.03	639.50	-	-	639.50
	10/19/2011	655.53	15.39	640.14	-	-	640.14
	11/17/2011	655.53	15.48	640.05	-	-	640.05
	12/07/2011	655.53	16.58	638.95	-	-	638.95
	01/09/2012	655.53	16.46	639.07	-	-	639.07
	02/15/2012	655.53	15.58	639.95	-	-	639.95
	03/12/2012	655.53	NR	-	NR	-	-
	04/17/2012	655.53	-	-	-	-	-
	05/17/2012	655.53	16.62	638.91	-	-	638.91
	06/14/2012	655.53	15.81	639.72	-	-	639.72
	07/11/2012	655.53	17.15	638.38	-	-	638.38
	08/16/2012	655.53	17.21	638.32	-	-	638.32
	09/13/2012	655.53	18.91	636.62	-	-	636.62
	10/18/2012	655.53	18.72	636.81	-	-	636.81

**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)
	11/15/2012	655.53	19.03	636.50	-	-	636.50
	12/06/2012	655.53	19.24	636.29	-	-	636.29
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
	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
	08/11/2011	656.27	13.81	642.46	-	-	642.46
	09/29/2011	656.27	14.97	641.30	-	-	641.30

**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)
	10/19/2011	656.27	15.31	640.96	-	-	640.96
	11/17/2011	656.27	15.44	640.83	-	-	640.83
	12/07/2011	656.27	15.50	640.77	-	-	640.77
	01/09/2012	656.27	15.31	640.96	-	-	640.96
	02/15/2012	656.27	14.61	641.66	-	-	641.66
	03/12/2012	656.27	NR	-	NR	-	-
	04/17/2012	656.27	15.11	641.16	-	-	641.16
	05/17/2012	656.27	NR	-	NR	-	-
	06/14/2012	656.27	16.89	639.38	-	-	639.38
	07/11/2012	656.27	14.08	642.19	-	-	642.19
	08/16/2012	656.27	14.38	641.89	-	-	641.89
	09/13/2012	656.27	15.84	640.43	-	-	640.43
	10/18/2012	656.27	15.80	640.47	-	-	640.47
	11/15/2012	656.27	16.04	640.23	-	-	640.23
	12/06/2012	656.27	16.11	640.16	-	-	640.16
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
	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

**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)
	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
	08/11/2011	653.01	12.20	640.81	-	-	640.81
	09/29/2011	653.01	15.06	637.95	-	-	637.95
	10/19/2011	653.01	14.01	639.00	-	-	639.00
	11/17/2011	653.01	14.11	638.90	-	-	638.90
	12/07/2011	653.01	14.28	638.73	-	-	638.73
	01/09/2012	653.01	14.07	638.94	-	-	638.94
	02/15/2012	653.01	13.20	639.81	-	-	639.81
	03/12/2012	653.01	NR	-	NR	-	-
	04/17/2012	653.01	-	-	-	-	-
	05/17/2012	653.01	NR	-	NR	-	-
	06/14/2012	653.01	14.68	638.33	-	-	638.33
	07/11/2012	653.01	14.98	638.03	-	-	638.03
	08/16/2012	653.01	15.11	637.90	-	-	637.90
	09/13/2012	653.01	15.62	637.39	-	-	637.39
	10/18/2012	653.01	15.52	637.49	-	-	637.49
	11/15/2012	653.01	15.89	637.12	-	-	637.12
	12/06/2012	653.01	16.00	637.01	-	-	637.01
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
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

**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)
	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	-	-
	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

**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)
	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
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

**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)
	01/28/2009	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
	06/20/2011	655.66	13.10	642.56	-	-	642.56
	07/13/2011	655.66	13.52	642.14	-	-	642.14
	08/11/2011	655.66	13.67	641.99	-	-	641.99
	09/29/2011	655.66	14.81	640.85	-	-	640.85
	10/19/2011	655.66	15.17	640.49	-	-	640.49
	11/17/2011	655.66	15.13	640.53	-	-	640.53
	12/07/2011	655.66	15.30	640.36	-	-	640.36
	01/09/2012	655.66	15.21	640.45	-	-	640.45
	02/15/2012	655.66	14.31	641.35	-	-	641.35
	03/12/2012	655.66	NR	-	NR	-	-
	05/17/2012	655.66	15.40	640.26	-	-	640.26
	06/14/2012	655.66	15.30	640.36	-	-	640.36
	07/11/2012	655.66	15.52	640.14	-	-	640.14
	08/16/2012	655.66	15.78	639.88	-	-	639.88
	09/13/2012	655.66	16.24	639.42	-	-	639.42
	10/18/2012	655.66	16.23	639.43	-	-	639.43
	11/15/2012	655.66	16.46	639.20	-	-	639.20
	12/06/2012	655.66	16.61	639.05	-	-	639.05
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	-	-

**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)
	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
	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

**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)
	06/25/2009	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
	08/11/2011	657.63	13.90	643.73	-	-	643.73
	09/29/2011	657.63	13.68	643.95	-	-	643.95
	10/19/2011	657.63	15.44	642.19	-	-	642.19
	11/17/2011	657.63	15.63	642.00	-	-	642.00
	12/07/2011	657.63	15.61	642.02	-	-	642.02
	01/09/2012	657.63	15.51	642.12	-	-	642.12
	02/15/2012	657.63	14.55	643.08	-	-	643.08
	03/12/2012	657.63	NR	-	NR	-	-
	04/17/2012	657.63	14.23	643.40	-	-	643.40
	05/17/2012	657.63	NR	-	NR	-	-
	06/14/2012	657.63	16.05	641.58	-	-	641.58
	07/11/2012	657.63	16.25	641.38	-	-	641.38
	08/16/2012	657.63	16.43	641.20	-	-	641.20
	09/13/2012	657.63	14.26	643.37	-	-	643.37
	10/18/2012	657.63	14.18	643.45	-	-	643.45
	11/15/2012	657.63	14.33	643.30	-	-	643.30
	12/06/2012	657.63	14.44	643.19	-	-	643.19
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
	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

**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)
	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
	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

**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)
	08/11/2011	653.65	11.77	641.88	-	-	641.88
	09/29/2011	653.65	13.17	640.48	-	-	640.48
	10/19/2011	653.65	13.53	640.12	-	-	640.12
	11/17/2011	653.65	13.44	640.21	-	-	640.21
	12/07/2011	653.65	13.76	639.89	-	-	639.89
	01/09/2012	653.65	13.57	640.08	-	-	640.08
	02/15/2012	653.65	12.68	640.97	-	-	640.97
	03/12/2012	653.65	NR	-	NR	-	-
	04/17/2012	653.65	13.54	640.11	-	-	640.11
	05/17/2012	653.65	13.64	640.01	-	-	640.01
	06/14/2012	653.65	14.15	639.50	-	-	639.50
	07/11/2012	653.65	14.08	639.57	-	-	639.57
	08/16/2012	653.65	14.22	639.43	-	-	639.43
	09/13/2012	653.65	14.74	638.91	-	-	638.91
	10/18/2012	653.65	14.63	639.02	-	-	639.02
	11/15/2012	653.65	15.01	638.64	-	-	638.64
12/06/2012	653.65	15.23	638.42	-	-	638.42	
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	
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	

**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)
	06/17/2010	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
	08/11/2011	654.27	11.36	642.91	-	-	642.91
	09/29/2011	654.27	12.85	641.42	-	-	641.42
	10/19/2011	654.27	13.18	641.09	-	-	641.09
	11/17/2011	654.27	13.22	641.05	-	-	641.05
	12/07/2011	654.27	13.44	640.83	-	-	640.83
	01/09/2012	654.27	13.18	641.09	-	-	641.09
	02/15/2012	654.27	12.31	641.96	-	-	641.96
	03/12/2012	654.27	NR	-	NR	-	-
	04/17/2012	654.27	-	-	-	-	-
	05/17/2012	654.27	NR	-	NR	-	-
	06/14/2012	654.27	13.81	640.46	-	-	640.46
	07/11/2012	654.27	12.78	641.49	-	-	641.49
	08/16/2012	654.27	13.03	641.24	-	-	641.24
	09/13/2012	654.27	15.70	638.57	-	-	638.57
	10/18/2012	654.27	15.68	638.59	-	-	638.59
	11/15/2012	654.27	15.13	639.14	-	-	639.14
	12/06/2012	654.27	15.31	638.96	-	-	638.96
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

**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)
	01/09/2006	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
	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
	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

**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)
	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
	08/11/2011	655.59	12.70	642.89	-	-	642.89
	09/29/2011	655.59	14.03	641.56	-	-	641.56
	10/19/2011	655.59	14.41	641.18	-	-	641.18
	11/17/2011	655.59	14.48	641.11	-	-	641.11
	12/07/2011	655.59	14.61	640.98	-	-	640.98
	01/09/2012	655.59	14.43	641.16	-	-	641.16
	02/15/2012	655.59	13.51	642.08	-	-	642.08
	03/12/2012	655.59	NR	-	NR	-	-
	04/17/2012	655.59	-	-	-	-	-
	05/17/2012	655.59	NR	-	NR	-	-
	06/14/2012	655.59	15.18	640.41	-	-	640.41
	07/11/2012	655.59	15.29	640.30	-	-	640.30
	08/16/2012	655.59	12.91	642.68	-	-	642.68
	09/13/2012	655.59	15.06	640.53	-	-	640.53
	10/18/2012	655.59	15.00	640.59	-	-	640.59
	11/15/2012	655.59	15.18	640.41	-	-	640.41
	12/06/2012	655.59	15.27	640.32	-	-	640.32
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

**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)
	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
	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
	05/20/2009	657.60	11.91	645.69	-	-	645.69

**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)
	06/25/2009	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
	08/11/2011	657.60	13.47	644.13	-	-	644.13
	09/29/2011	657.60	14.63	642.97	-	-	642.97
	10/19/2011	657.60	14.98	642.62	-	-	642.62
	11/17/2011	657.60	15.16	642.44	-	-	642.44
	12/07/2011	657.60	15.23	642.37	-	-	642.37
	01/09/2012	657.60	15.09	642.51	-	-	642.51
	02/15/2012	657.60	14.16	643.44	-	-	643.44
	03/12/2012	657.60	NR	-	NR	-	-
	04/17/2012	657.60	14.68	642.92	-	-	642.92
	05/17/2012	657.60	15.17	642.43	-	-	642.43
	06/14/2012	657.60	15.61	641.99	-	-	641.99
	07/11/2012	657.60	15.85	641.75	-	-	641.75
	08/16/2012	657.60	16.00	641.60	-	-	641.60
	09/13/2012	657.60	15.51	642.09	-	-	642.09
	10/18/2012	657.60	16.46	641.14	-	-	641.14
	11/15/2012	657.60	16.71	640.89	-	-	640.89
	12/06/2012	657.60	16.83	640.77	-	-	640.77
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

**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)
	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
	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

**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)
	09/06/2006	654.72	11.95	642.77	-	-	642.77
	11/01/2006	654.72	11.68	643.04	-	-	643.04
	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
	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

**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)
	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
	08/11/2011	656.26	11.77	644.49	-	-	644.49
	09/29/2011	656.26	13.24	643.02	-	-	643.02
	10/19/2011	656.26	13.40	642.86	-	-	642.86
	11/17/2011	656.26	13.49	642.77	-	-	642.77
	12/07/2011	656.26	13.73	642.53	-	-	642.53
	01/09/2012	656.26	13.51	642.75	-	-	642.75
	02/15/2012	656.26	12.96	643.30	-	-	643.30
	03/12/2012	656.26	NR	-	NR	-	-
	04/17/2012	656.26	-	-	-	-	-
	05/17/2012	656.26	13.53	642.73	-	-	642.73
	06/14/2012	656.26	14.13	642.13	-	-	642.13
	07/11/2012	656.26	13.53	642.73	-	-	642.73
	09/13/2012	656.26	14.26	642.00	-	-	642.00

**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)
	08/16/2012	656.26	16.96	639.30	-	-	639.30
	10/18/2012	656.26	14.11	642.15	-	-	642.15
	11/15/2012	656.26	14.32	641.94	-	-	641.94
	12/06/2012	656.26	14.52	641.74	-	-	641.74
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
	06/20/2011	656.26	10.49	645.77	-	-	645.77
	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**

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)
	08/11/2011	656.26	10.87	645.39	-	-	645.39
	09/29/2011	656.26	12.18	644.08	-	-	644.08
	10/19/2011	656.26	12.36	643.90	-	-	643.90
	11/17/2011	656.26	17.48	638.78	-	-	638.78
	12/07/2011	656.26	12.70	643.56	-	-	643.56
	01/09/2012	656.26	12.44	643.82	-	-	643.82
	02/15/2012	656.26	11.60	644.66	-	-	644.66
	03/12/2012	656.26	NR	-	NR	-	-
	04/17/2012	656.26	-	-	-	-	-
	05/17/2012	656.26	12.49	643.77	-	-	643.77
	06/14/2012	656.26	13.06	643.20	-	-	643.20
	07/11/2012	656.26	13.30	642.96	-	-	642.96
	08/16/2012	656.26	13.63	642.63	-	-	642.63
	09/13/2012	656.26	13.29	642.97	-	-	642.97
	10/18/2012	656.26	13.24	643.02	-	-	643.02
	11/15/2012	656.26	13.44	642.82	-	-	642.82
	12/06/2012	656.26	13.53	642.73	-	-	642.73
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

**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)
	06/17/2010	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
	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
	08/11/2011	656.94	11.81	645.13	-	-	645.13
	09/29/2011	656.94	13.11	643.83	-	-	643.83
	10/19/2011	656.94	13.25	643.69	-	-	643.69
	11/17/2011	656.94	13.33	643.61	-	-	643.61
	12/07/2011	656.94	13.61	643.33	-	-	643.33
	01/09/2012	656.94	13.40	643.54	-	-	643.54
	02/15/2012	656.94	12.68	644.26	-	-	644.26
	03/12/2012	656.94	NR	-	NR	-	-
	04/17/2012	656.94	-	-	-	-	-
	05/17/2012	656.94	NR	-	NR	-	-
	06/14/2012	656.94	14.05	642.89	-	-	642.89
	07/11/2012	656.94	14.25	642.69	-	-	642.69
	08/16/2012	656.94	13.41	643.53	-	-	643.53
	09/13/2012	656.94	14.78	642.16	-	-	642.16
	10/18/2012	656.94	14.61	642.33	-	-	642.33
	11/15/2012	656.94	14.96	641.98	-	-	641.98
	12/06/2012	656.94	15.14	641.80	-	-	641.80
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

**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)
	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
	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
	08/11/2011	657.32	11.48	645.84	-	-	645.84
	09/29/2011	657.32	12.62	644.70	-	-	644.70
	10/19/2011	657.32	12.74	644.58	-	-	644.58
	11/17/2011	657.32	12.81	644.51	-	-	644.51
	12/07/2011	657.32	13.11	644.21	-	-	644.21
	01/09/2012	657.32	12.75	644.57	-	-	644.57
	02/15/2012	657.32	11.98	645.34	-	-	645.34
	03/12/2012	657.32	NR	-	NR	-	-
	04/17/2012	657.32	11.87	645.45	-	-	645.45
	05/17/2012	657.32	NR	-	NR	-	-
	06/14/2012	657.32	13.52	643.80	-	-	643.80
	07/11/2012	657.32	12.70	644.62	-	-	644.62
	08/16/2012	657.32	14.29	643.03	-	-	643.03
	09/13/2012	657.32	12.51	644.81	-	-	644.81
	10/18/2012	657.32	12.37	644.95	-	-	644.95
	11/15/2012	657.32	12.51	644.81	-	-	644.81
	12/06/2012	657.32	12.78	644.54	-	-	644.54
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

**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)
	01/09/2007	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
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

**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)
	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
	06/20/2011	660.48	13.87	646.61	-	-	646.61
	07/13/2011	660.48	13.52	646.96	-	-	646.96
	08/11/2011	660.48	14.39	646.09	-	-	646.09
	09/29/2011	660.48	15.51	644.97	-	-	644.97
	10/19/2011	660.48	14.68	645.80	-	-	645.80
	11/17/2011	660.48	14.73	645.75	-	-	645.75
	12/07/2011	660.48	16.03	644.45	-	-	644.45
	01/09/2012	660.48	15.87	644.61	-	-	644.61
	02/15/2012	660.48	15.13	645.35	-	-	645.35
	03/12/2012	660.48	NR	-	NR	-	-
	04/17/2012	660.48	NR	-	NR	-	-
	05/17/2012	660.48	NR	-	NR	-	-
	06/14/2012	660.48	16.40	644.08	-	-	644.08
	07/11/2012	660.48	16.71	643.77	-	-	643.77
	08/16/2012	660.48	15.44	645.04	-	-	645.04
	09/13/2012	660.48	15.73	644.75	-	-	644.75
	10/18/2012	660.48	15.62	644.86	-	-	644.86
	11/15/2012	660.48	15.81	644.67	-	-	644.67
	12/06/2012	660.48	16.02	644.46	-	-	644.46
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

**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	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
	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
	08/11/2011	654.86	10.01	644.85	-	-	644.85
	09/29/2011	654.86	11.32	643.54	-	-	643.54

**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)
	10/19/2011	654.86	11.32	643.54	-	-	643.54
	11/17/2011	654.86	11.37	643.49	-	-	643.49
	12/07/2011	654.86	11.78	643.08	-	-	643.08
	01/09/2012	654.86	11.50	643.36	-	-	643.36
	02/15/2012	654.86	10.64	644.22	-	-	644.22
	03/12/2012	654.86	NR	-	NR	-	-
	04/17/2012	654.86	-	-	-	-	-
	05/17/2012	654.86	11.55	643.31	-	-	643.31
	06/14/2012	654.86	12.11	642.75	-	-	642.75
	07/11/2012	654.86	12.39	642.47	-	-	642.47
	08/16/2012	654.86	12.86	642.00	-	-	642.00
	09/13/2012	654.86	13.08	641.78	-	-	641.78
	10/18/2012	654.86	12.99	641.87	-	-	641.87
	11/15/2012	654.86	13.14	641.72	-	-	641.72
	12/06/2012	654.86	13.33	641.53	-	-	641.53
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
	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

**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)
	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
	08/11/2011	655.33	9.91	645.42	-	-	645.42
	09/29/2011	655.33	11.02	644.31	-	-	644.31
	10/19/2011	655.33	10.36	644.97	-	-	644.97
	11/17/2011	655.33	11.09	644.24	-	-	644.24
	12/07/2011	655.33	11.45	643.88	-	-	643.88
	01/09/2012	655.33	11.19	644.14	-	-	644.14
	02/15/2012	655.33	10.41	644.92	-	-	644.92
	03/12/2012	655.33	NR	-	NR	-	-
	04/17/2012	655.33	-	-	-	-	-
	05/17/2012	655.33	11.57	643.76	-	-	643.76
	06/14/2012	655.33	11.78	643.55	-	-	643.55
	07/11/2012	655.33	11.43	643.90	-	-	643.90
	08/16/2012	655.33	12.44	642.89	-	-	642.89
	09/13/2012	655.33	12.11	643.22	-	-	643.22
	10/18/2012	655.33	11.98	643.35	-	-	643.35
	11/15/2012	655.33	12.09	643.24	-	-	643.24
	12/06/2012	655.33	12.24	643.09	-	-	643.09
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
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

**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)
	01/09/2006	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	-	-
	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

**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)
	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
	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

**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)
	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
	08/11/2011	659.46	12.61	646.85	-	-	646.85
	09/29/2011	659.46	13.47	645.99	-	-	645.99
	10/19/2011	659.46	13.42	646.04	-	-	646.04
	11/17/2011	659.46	13.69	645.77	-	-	645.77
	12/07/2011	659.46	13.88	645.58	-	-	645.58
	01/09/2012	659.46	13.72	645.74	-	-	645.74
	02/15/2012	659.46	13.01	646.45	-	-	646.45
	03/12/2012	659.46	NR	-	NR	-	-
	04/17/2012	659.46	-	-	-	-	-
	05/17/2012	659.46	NR	-	NR	-	-
	06/14/2012	659.46	14.27	645.19	-	-	645.19
	07/11/2012	659.46	14.48	644.98	-	-	644.98
	08/16/2012	659.46	14.53	644.93	-	-	644.93
	09/13/2012	659.46	14.93	644.53	-	-	644.53
	10/18/2012	659.46	14.67	644.79	-	-	644.79
	11/15/2012	659.46	14.77	644.69	-	-	644.69
	12/06/2012	659.46	14.81	644.65	-	-	644.65
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
	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

**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	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
	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
	08/11/2011	655.60	9.03	646.57	-	-	646.57
	09/29/2011	655.60	10.21	645.39	-	-	645.39
	10/19/2011	655.60	9.65	645.95	-	-	645.95
	11/17/2011	655.60	9.89	645.71	-	-	645.71
	12/07/2011	655.60	10.38	645.22	-	-	645.22
	01/09/2012	655.60	10.04	645.56	-	-	645.56
	02/15/2012	655.60	9.77	645.83	-	-	645.83
	03/12/2012	655.60	NR	-	NR	-	-
	04/17/2012	655.60	10.15	645.45	-	-	645.45
	05/17/2012	655.60	10.04	645.56	-	-	645.56
	06/14/2012	655.60	10.71	644.89	-	-	644.89
	07/11/2012	655.60	11.04	644.56	-	-	644.56

**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)
	08/16/2012	655.60	11.34	644.26	-	-	644.26
	09/13/2012	655.60	10.31	645.29	-	-	645.29
	10/18/2012	655.60	10.22	645.38	-	-	645.38
	11/15/2012	655.60	10.41	645.19	-	-	645.19
	12/06/2012	655.60	10.70	644.90	-	-	644.90
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
	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

**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)
	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
	08/11/2011	657.78	10.59	647.19	-	-	647.19
	09/29/2011	657.78	11.63	646.15	-	-	646.15
	10/19/2011	657.78	10.46	647.32	-	-	647.32
	11/17/2011	657.78	11.70	646.08	-	-	646.08
	12/07/2011	657.78	11.74	646.04	-	-	646.04
	01/09/2012	657.78	NR	-	NR	-	-
	02/15/2012	657.78	NR	-	NR	-	-
	03/12/2012	657.78	NR	-	NR	-	-
	04/17/2012	657.78	NR	-	NR	-	-
	05/17/2012	657.78	NR	-	NR	-	-
	06/14/2012	657.78	NR	-	NR	-	-
	07/11/2012	657.78	NR	-	NR	-	-
	08/16/2012	657.78	NR	-	NR	-	-
	09/13/2012	657.78	NR	-	NR	-	-
	10/18/2012	657.78	NR	-	NR	-	-
	11/15/2012	657.78	NR	-	NR	-	-
	12/06/2012	657.78	NR	-	NR	-	-

**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)
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
	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
	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	

**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)
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
	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
	08/11/2011	662.91	15.01	647.90	-	-	647.90
	09/29/2011	662.91	16.24	646.67	-	-	646.67
	10/19/2011	662.91	16.03	646.88	-	-	646.88
	11/17/2011	662.91	16.55	646.36	-	-	646.36
	12/07/2011	662.91	16.53	646.38	-	-	646.38
	01/09/2012	662.91	16.58	646.33	-	-	646.33

**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)
	02/15/2012	662.91	16.19	646.72	-	-	646.72
	03/12/2012	662.91	NR	-	NR	-	-
	04/17/2012	662.91	NR	-	NR	-	-
	05/17/2012	662.91	NR	-	NR	-	-
	06/14/2012	662.91	NR	-	NR	-	-
	07/11/2012	662.91	NR	-	NR	-	-
	08/16/2012	662.91	NR	-	NR	-	-
	09/13/2012	662.91	NR	-	NR	-	-
	10/18/2012	662.91	NR	-	NR	-	-
	11/15/2012	662.91	NR	-	NR	-	-
	12/06/2012	662.91	NR	-	NR	-	-
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	-	-
	01/09/2006	659.30	NR	-	NR	-	-

**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	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
	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

**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)
	01/09/2006	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
	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
	08/11/2011	661.87	18.50	643.37	-	-	643.37
	09/29/2011	661.87	19.77	642.10	-	-	642.10
	10/19/2011	661.87	20.13	641.74	-	-	641.74
	11/17/2011	661.87	20.08	641.79	-	-	641.79
	12/07/2011	661.87	20.43	641.44	-	-	641.44
	01/09/2012	661.87	20.39	641.48	-	-	641.48
	02/15/2012	661.87	19.77	642.10	-	-	642.10
	03/12/2012	661.87	NR	-	NR	-	-
	04/17/2012	661.87	NR	-	NR	-	-
	05/17/2012	661.87	NR	-	NR	-	-
	06/14/2012	661.87	20.77	641.10	-	-	641.10

**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)
	07/11/2012	661.87	21.01	640.86	-	-	640.86
	08/16/2012	661.87	21.33	640.54	-	-	640.54
	09/13/2012	661.87	21.75	640.12	-	-	640.12
	10/18/2012	661.87	21.60	640.27	-	-	640.27
	11/15/2012	661.87	21.84	640.03	-	-	640.03
	12/06/2012	661.87	21.97	639.90	-	-	639.90
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
	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

**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)
	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
	08/11/2011	662.17	17.78	644.39	-	-	644.39
	09/29/2011	662.17	18.91	643.26	-	-	643.26
	10/19/2011	662.17	19.23	642.94	-	-	642.94
	11/17/2011	662.17	19.25	642.92	-	-	642.92
	12/07/2011	662.17	19.51	642.66	-	-	642.66
	01/09/2012	662.17	19.53	642.64	-	-	642.64
	02/15/2012	662.17	18.46	643.71	-	-	643.71
	03/12/2012	662.17	NR	-	NR	-	-
	04/17/2012	662.17	-	-	-	-	-
	05/17/2012	662.17	NR	-	NR	-	-
	06/14/2012	662.17	19.60	642.57	-	-	642.57
	07/11/2012	662.17	19.83	642.34	-	-	642.34
	08/16/2012	662.17	20.04	642.13	-	-	642.13
	09/13/2012	662.17	20.69	641.48	-	-	641.48
	10/18/2012	662.17	20.45	641.72	-	-	641.72
	11/15/2012	662.17	20.71	641.46	-	-	641.46
	12/06/2012	662.17	20.99	641.18	-	-	641.18
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

**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	663.37	21.41	641.96	-	-	641.96
	06/30/2008	663.37	19.85	643.52	-	-	643.52
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	-	-
	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

**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)
	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
	08/11/2011	664.81	17.83	646.98	-	-	646.98
	09/29/2011	664.81	18.99	645.82	-	-	645.82
	10/19/2011	664.81	19.27	645.54	-	-	645.54
	11/17/2011	664.81	20.03	644.78	-	-	644.78
	12/07/2011	664.81	19.70	645.11	-	-	645.11
	01/09/2012	664.81	19.76	645.05	-	-	645.05
	02/15/2012	664.81	19.07	645.74	-	-	645.74
	03/12/2012	664.81	NR	-	NR	-	-
	04/17/2012	664.81	-	-	-	-	-
	05/17/2012	664.81	NR	-	NR	-	-
	06/14/2012	664.81	21.30	643.51	-	-	643.51
	07/11/2012	664.81	20.21	644.60	-	-	644.60
	08/16/2012	664.81	20.17	644.64	-	-	644.64
	09/13/2012	664.81	20.70	644.11	-	-	644.11
	10/18/2012	664.81	20.39	644.42	-	-	644.42
	11/15/2012	664.81	20.44	644.37	-	-	644.37
	12/06/2012	664.81	20.36	644.45	-	-	644.45
12-9M	04/04/2005	665.19	20.73	644.46	-	-	644.46

**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)
	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
	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
	08/11/2011	665.19	18.20	646.99	-	-	646.99
	09/29/2011	665.19	19.58	645.61	-	-	645.61
	10/19/2011	665.19	19.86	645.33	-	-	645.33
	11/17/2011	665.19	19.44	645.75	-	-	645.75
	12/07/2011	665.19	20.32	644.87	-	-	644.87
	01/09/2012	665.19	20.41	644.78	-	-	644.78

**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)
	02/15/2012	665.19	19.88	645.31	-	-	645.31
	03/12/2012	665.19	NR	-	NR	-	-
	04/17/2012	665.19	-	-	-	-	-
	05/17/2012	665.19	NR	-	NR	-	-
	06/14/2012	665.19	20.45	644.74	-	-	644.74
	07/11/2012	665.19	20.64	644.55	-	-	644.55
	08/16/2012	665.19	20.59	644.60	-	-	644.60
	09/13/2012	665.19	21.17	644.02	-	-	644.02
	10/18/2012	665.19	21.01	644.18	-	-	644.18
	11/15/2012	665.19	21.32	643.87	-	-	643.87
	12/06/2012	665.19	21.44	643.75	-	-	643.75
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
	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

**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)
	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
	08/11/2011	666.41	18.51	647.90	-	-	647.90
	09/29/2011	666.41	19.50	646.91	-	-	646.91
	10/19/2011	666.41	20.75	645.66	-	-	645.66
	11/17/2011	666.41	20.01	646.40	-	-	646.40
	12/07/2011	666.41	20.24	646.17	-	-	646.17
	01/09/2012	666.41	20.28	646.13	-	-	646.13
	02/15/2012	666.41	19.81	646.60	-	-	646.60
	03/12/2012	666.41	NR	-	NR	-	-
	04/17/2012	666.41	-	-	-	-	-
	05/17/2012	666.41	NR	-	NR	-	-
	06/14/2012	666.41	20.60	645.81	-	-	645.81
	07/11/2012	666.41	20.83	645.58	-	-	645.58
	08/16/2012	666.41	20.91	645.50	-	-	645.50
	09/13/2012	666.41	21.25	645.16	-	-	645.16
	10/18/2012	666.41	21.17	645.24	-	-	645.24
	11/15/2012	666.41	21.30	645.11	-	-	645.11
	12/06/2012	666.41	21.42	644.99	-	-	644.99
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

**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)
	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
	06/20/2011	667.26	18.81	648.45	-	-	648.45
	07/13/2011	667.26	13.52	653.74	-	-	653.74
	08/11/2011	667.26	19.11	648.15	-	-	648.15
	09/29/2011	667.26	20.36	646.90	-	-	646.90
	10/19/2011	667.26	20.54	646.72	-	-	646.72
	11/17/2011	667.26	20.86	646.40	-	-	646.40
	12/07/2011	667.26	21.09	646.17	-	-	646.17
	01/09/2012	667.26	21.15	646.11	-	-	646.11
	02/15/2012	667.26	18.89	648.37	-	-	648.37
	03/12/2012	667.26	NR	-	NR	-	-
	04/17/2012	667.26	-	-	-	-	-
	05/17/2012	667.26	NR	-	NR	-	-
	06/14/2012	667.26	21.16	646.10	-	-	646.10
	07/11/2012	667.26	21.59	645.67	-	-	645.67
	08/16/2012	667.26	21.77	645.49	-	-	645.49
	09/13/2012	667.26	22.28	644.98	-	-	644.98
	10/18/2012	667.26	22.11	645.15	-	-	645.15
	11/15/2012	667.26	22.29	644.97	-	-	644.97
	12/06/2012	667.26	22.26	645.00	-	-	645.00
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

**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)
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
	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

**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)
	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

Table D-2
Site 3805A
Historic O&M Data
Fort Drum, NY

Date	Time	System Condition	SVE Hour Meter	SVE Hours Operated	Sparge Hour Meter	Sparge Hours Operated	SVE Influent Vacuum (in Hg)	SVE Influent Temperature	Barometric Pressure (in Hg)	SVE Effluent Pressure (psi)	SVE Effluent Temperature (F)	SVE Differential Pressure (in H ₂ O)	Sparge Influent Pressure (psi)	Sparge Influent Temperature (F)	Sparge Effluent Pressure (psi)	Sparge Effluent Temperature (F)	Sparge Differential Pressure (in H ₂ O)	OWS Cumulative Flow* (gallons)	Air Flow (cfm)	System Effluent (ppm)	Total Mass Recovered (lbs)	Total Recovery Rate (lbs/hr)	Notes
02/01/13	NR	Off	NR	NR	NR	NR	NR	NR	29.90	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
02/04/13	NR	Off	NR	NR	NR	NR	NR	NR	29.86	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
02/05/13	NR	Off	NR	NR	NR	NR	NR	NR	29.94	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
02/06/13	NR	Off	NR	NR	NR	NR	NR	NR	29.99	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
02/07/13	NR	Off	NR	NR	NR	NR	NR	NR	30.40	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
02/08/13	NR	Off	NR	NR	NR	NR	NR	NR	30.05	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
02/11/13	NR	Off	NR	NR	NR	NR	NR	NR	29.70	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
02/12/13	NR	Off	NR	NR	NR	NR	NR	NR	29.71	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
02/13/13	NR	Off	NR	NR	NR	NR	NR	NR	29.83	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
02/14/13	NR	Off	NR	NR	NR	NR	NR	NR	29.87	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
02/15/13	NR	Off	NR	NR	NR	NR	NR	NR	29.86	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
02/18/13	NR	Off	NR	NR	NR	NR	NR	NR	30.20	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
02/19/13	NR	Off	NR	NR	NR	NR	NR	NR	29.67	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
02/20/13	NR	Off	NR	NR	NR	NR	NR	NR	29.79	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
02/21/13	NR	Off	NR	NR	NR	NR	NR	NR	30.09	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
02/22/13	NR	Off	NR	NR	NR	NR	NR	NR	30.28	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
02/25/13	NR	Off	NR	NR	NR	NR	NR	NR	30.12	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
02/26/13	NR	Off	NR	NR	NR	NR	NR	NR	30.17	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
02/27/13	NR	Off	NR	NR	NR	NR	NR	NR	29.66	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
02/28/13	NR	Off	NR	NR	NR	NR	NR	NR	29.60	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
03/01/13	NR	Off	NR	NR	NR	NR	NR	NR	29.76	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
03/04/13	NR	Off	NR	NR	NR	NR	NR	NR	29.90	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
03/05/13	NR	Off	NR	NR	NR	NR	NR	NR	30.07	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
03/06/13	NR	Off	NR	NR	NR	NR	NR	NR	30.12	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
03/07/13	NR	Off	NR	NR	NR	NR	NR	NR	30.24	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
03/08/13	NR	Off	NR	NR	NR	NR	NR	NR	30.30	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
03/11/13	NR	Off	NR	NR	NR	NR	NR	NR	29.90	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
03/12/13	NR	Off	NR	NR	NR	NR	NR	NR	29.81	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
03/13/13	NR	Off	NR	NR	NR	NR	NR	NR	29.83	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
03/14/13	NR	Off	NR	NR	NR	NR	NR	NR	29.91	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
03/15/13	NR	Off	NR	NR	NR	NR	NR	NR	29.70	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
03/18/13	NR	Off	NR	NR	NR	NR	NR	NR	30.14	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
03/19/13	NR	Off	NR	NR	NR	NR	NR	NR	29.76	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
03/20/13	NR	Off	NR	NR	NR	NR	NR	NR	29.75	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
03/21/13	NR	Off	NR	NR	NR	NR	NR	NR	29.71	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
03/22/13	NR	Off	NR	NR	NR	NR	NR	NR	29.72	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
03/25/13	NR	Off	NR	NR	NR	NR	NR	NR	29.70	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
03/26/13	NR	Off	NR	NR	NR	NR	NR	NR	29.80	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
03/27/13	NR	Off	NR	NR	NR	NR	NR	NR	29.94	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
03/28/13	NR	Off	NR	NR	NR	NR	NR	NR	30.07	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
03/29/13	NR	Off	NR	NR	NR	NR	NR	NR	30.14	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/01/13	NR	Off	NR	NR	NR	NR	NR	NR	29.62	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/02/13	NR	Off	NR	NR	NR	NR	NR	NR	29.92	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/03/13	NR	Off	NR	NR	NR	NR	NR	NR	30.14	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/04/13	NR	Off	NR	NR	NR	NR	NR	NR	30.16	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/05/13	NR	Off	NR	NR	NR	NR	NR	NR	29.91	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/08/13	NR	Off	NR	NR	NR	NR	NR	NR	30.01	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/09/13	NR	Off	NR	NR	NR	NR	NR	NR	29.92	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/10/13	NR	Off	NR	NR	NR	NR	NR	NR	29.99	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/11/13	NR	Off	NR	NR	NR	NR	NR	NR	30.13	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/12/13	NR	Off	NR	NR	NR	NR	NR	NR	29.79	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/15/13	NR	Off	NR	NR	NR	NR	NR	NR	30.19	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/16/13	NR	Off	NR	NR	NR	NR	NR	NR	30.00	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/17/13	NR	Off	NR	NR	NR	NR	NR	NR	30.31	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/18/13	NR	Off	NR	NR	NR	NR	NR	NR	30.04	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/19/13	NR	Off	NR	NR	NR	NR	NR	NR	29.55	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/22/13	NR	Off	NR	NR	NR	NR	NR	NR	30.55	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/23/13	NR	Off	NR	NR	NR	NR	NR	NR	30.26	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/24/13	NR	Off	NR	NR	NR	NR	NR	NR	29.73	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/25/13	NR	Off	NR	NR	NR	NR	NR	NR	30.12	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/26/13	NR	Off	NR	NR	NR	NR	NR	NR	30.40	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/29/13	NR	Off	NR	NR	NR	NR	NR	NR	30.10	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	
04/30/13	NR	Off	NR	NR	NR	NR	NR	NR	30.19	NR	NR	NR	NR	NR	NR	NR	NR	1088102.4	NR	NR	NR	NR	

Notes:

NR = Not Recorded.

in Hg = inches Mercury

F = degrees Fahrenheit

psi = Pressure per Square Inch

in H₂O = inches Water

cfm = Cubic Feet per Minute

ppm = Parts Per Million

lbs = Pounds

lbs/hr = Pounds per Hour

OWS = Oil Water Separator

*Flowmeter may have been replaced for repairs during the duration of the system activation

Table D-3
Site 3805B
Historic O&M Data
Fort Drum, NY

Date	Time	System Condition	SVE Hour Meter	SVE Hours Operated	Sparge Hour Meter	Sparge Hours Operated	SVE Influent Vacuum (in Hg)	SVE Influent Temperature (F)	Barometric Pressure (in Hg)	SVE Effluent Pressure (psi)	SVE Effluent Temperature (F)	SVE Differential Pressure (in H ₂ O)	Sparge Influent Pressure (psi)	Sparge Influent Temperature (F)	Sparge Effluent Pressure (psi)	Sparge Effluent Temperature (F)	Sparge Differential Pressure (in H ₂ O)	OWS Cumulative Flow* (gallons)	Air Flow (cfm)	System Effluent (ppm)	Total Mass Recovered (lbs)	Total Recovery Rate (lbs/hr)	Notes
02/01/13	0820	Off	20761.0	0.0	13511.4	0.0	NR	NR	29.90	NR	NR	NR	8.0	98	7.0	72	1.60	1429121.5	NR	NR	NR	NR	
02/04/13	0835	Off	20761.0	0.0	13631.5	120.1	NR	NR	29.86	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	System off due to broken belts, waiting on parts
02/05/13	-	Off	20761.0	0.0	13631.5	0.0	NR	NR	29.94	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	System off due to broken belts, waiting on parts
02/06/13	-	Off	20761.0	0.0	13631.5	0.0	NR	NR	29.99	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	System off due to broken belts, waiting on parts
02/07/13	-	Off	20761.0	0.0	13631.5	0.0	NR	NR	30.40	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	System off due to broken belts, waiting on parts
02/08/13	1020	On	20784.7	23.7	NR	NR	7.5	58	30.05	0.0	114	5.0	NR	NR	NR	NR	NR	1429163.0	743.6	33.7	3.564	0.150	System off due to broken belts, waiting on parts
02/11/13	1020	On	10856.8	NR	NR	NR	7.0	58	29.70	0.0	122	5.0	NR	NR	NR	NR	NR	1429163.0	739.3	63.3	NR	NR	System off due to broken belts, waiting on parts
02/12/13	0845	On	10879.2	22.4	NR	NR	7.0	58	29.71	0.0	121	5.0	NR	NR	NR	NR	NR	1429163.0	739.4	34.3	3.409	0.152	System reactivated
02/13/13	0905	On	10901.9	22.7	NR	NR	7.5	64	29.83	0.0	124	5.0	8.0	116	7.0	76	1.60	1429163.0	736.6	25.4	2.548	0.112	
02/14/13	0802	On	10924.8	22.9	13675.8	44.3	7.5	63	29.87	0.0	122	5.0	8.0	113	7.0	70	1.60	1429163.0	737.8	32.5	3.295	0.144	
02/15/13	0801	On	10948.8	24.0	13699.8	24.0	7.2	65	29.86	0.0	126	5.0	8.0	120	6.7	76	1.60	1429163.0	736.3	38.2	4.050	0.169	
02/18/13	0841	On	11021.4	72.6	13772.4	72.6	7.5	58	30.20	0.0	115	5.0	8.5	90	7.0	66	1.60	1429163.0	745.5	52.5	17.048	0.235	
02/19/13	0820	On	11045.2	23.8	13796.1	23.7	7.2	64	29.67	0.0	123	5.0	7.5	116	6.5	80	1.60	1429163.0	734.7	36.0	3.777	0.159	
02/20/13	1023	On	11071.7	26.5	13822.6	26.5	7.3	61	29.79	0.0	120	5.0	8.0	107	6.5	71	1.60	1429163.0	738.3	75.2	8.827	0.333	
02/21/13	0910	On	11093.9	22.2	13844.9	22.3	7.5	58	30.09	0.0	114	5.0	8.5	93	7.0	68	1.60	1429163.0	744.1	36.3	3.598	0.162	
02/22/13	0944	On	11118.5	24.6	13869.5	24.6	7.5	59	30.28	0.0	117	5.0	8.5	106	8.0	70	1.60	1429163.0	745.7	34.5	3.797	0.154	
02/25/13	0825	On	11189.2	70.7	13940.1	70.6	7.3	63	30.12	0.0	124	5.0	8.0	114	6.5	72	1.60	1429163.0	740.9	34.8	10.938	0.155	
02/26/13	0845	On	11213.5	24.3	13964.5	24.4	7.5	59	30.17	0.0	119	5.0	8.3	108	6.5	70	1.60	1429163.0	744.4	33.0	3.582	0.147	
02/27/13	1205	On	11240.8	27.3	13991.8	27.3	6.8	64	29.66	0.0	126	5.0	7.5	122	6.5	77	1.60	1429163.0	734.5	37.5	4.512	0.165	
02/28/13	0818	On	11254.2	13.4	14012.7	20.9	7.5	64	29.60	0.0	118	5.0	7.5	116	6.5	76	1.60	1429245.1	733.8	65.7	3.876	0.289	Stripper fault. System was checked and reactivated
03/01/13	0817	On	11277.5	23.3	14036.1	23.4	7.5	63	29.76	0.0	126	5.0	8.0	114	6.5	76	1.60	1429245.1	736.5	56.5	5.817	0.250	
03/04/13	0845	On	11349.9	72.4	14108.5	72.4	7.5	60	29.90	0.0	119	5.0	8.0	103	7.0	72	1.60	1429283.5	740.3	38.6	12.414	0.171	
03/05/13	0853	On	11374.0	24.1	14132.6	24.1	7.5	61	30.07	0.0	119	5.0	8.0	110	6.5	72	1.60	1429283.5	741.7	36.9	3.958	0.164	
03/06/13	0855	On	11397.9	23.9	14156.5	23.9	7.5	61	30.12	0.0	122	2.7	8.0	114	6.5	73	1.60	1429283.5	545.5	88.2	6.900	0.289	
03/07/13	0841	On	11421.8	23.9	14180.4	23.9	7.5	62	30.24	0.0	124	2.6	8.0	116	6.5	74	1.60	1429283.5	535.9	33.4	2.567	0.107	
03/08/13	0835	On	11445.8	24.0	14204.4	24.0	7.5	62	30.30	0.0	122	2.7	8.0	114	6.5	73	1.60	1429283.5	546.6	29.5	2.322	0.097	
03/11/13	0833	On	11516.7	70.9	14275.3	70.9	7.5	61	29.90	0.0	128	2.6	8.0	123	6.5	77	1.60	1429283.5	533.4	31.8	7.215	0.102	
03/12/13	0832	On	11540.6	23.9	14299.2	23.9	8.0	63	29.81	0.0	133	2.4	7.5	122	6.5	77	1.60	1431703.0	510.7	33.0	2.417	0.101	
03/13/13	0756	On	11564.1	23.5	14322.6	23.4	7.5	61	29.83	0.0	127	2.5	8.0	116	6.5	74	1.60	1431805.8	522.4	31.7	2.335	0.099	
03/14/13	0910	On	11589.3	25.2	14347.8	25.2	7.5	58	29.91	0.0	118	2.7	8.5	100	7.0	72	1.60	1431825.2	545.2	17.8	1.467	0.058	
03/15/13	0846	On	11612.9	23.6	14371.5	23.7	7.5	59	29.70	0.0	121	2.6	8.0	106	7.0	70	1.60	1431825.2	532.6	18.5	1.395	0.059	
03/18/13	0853	On	11685.1	72.2	14443.6	72.1	7.5	57	30.14	0.0	116	2.7	8.5	99	7.0	68	1.60	1431825.2	547.8	17.0	4.034	0.056	
03/19/13	0928	On	11709.6	24.5	14468.2	24.6	7.0	60	29.76	0.0	123	2.6	8.0	114	7.0	73	1.60	1431825.2	532.6	13.7	1.073	0.044	
03/20/13	0758	On	11732.1	22.5	14490.7	22.5	7.0	61	29.75	0.0	122	2.6	8.0	110	7.0	75	1.60	1431825.2	532.0	17.3	1.243	0.055	
03/21/13	0828	On	11756.6	24.5	14515.2	24.5	7.0	60	29.71	0.0	121	2.5	8.0	105	7.0	73	1.60	1431825.2	521.8	17.1	1.312	0.054	
03/22/13	0946	On	11781.9	25.3	14540.4	25.2	7.0	60	29.72	0.0	121	2.6	8.0	110	7.0	73	1.60	1431825.2	532.3	19.2	1.551	0.061	
03/25/13	0810	On	11852.3	70.4	14610.9	70.5	7.0	61	29.70	0.0	122	2.6	NR	NR	NR	NR	NR	1431825.2	531.6	19.0	4.266	0.061	AS deactivated for bio augmentation
03/26/13	0731	On	11875.6	23.3	NR	NR	7.0	58	29.80	0.0	122	2.6	NR	NR	NR	NR	NR	1431825.2	534.0	21.4	1.598	0.069	AS deactivated for bio augmentation
03/27/13	0650	On	11899.0	23.4	NR	NR	7.5	58	29.94	0.0	126	2.5	NR	NR	NR	NR	NR	1431869.3	524.9	24.2	1.783	0.076	AS deactivated for bio augmentation
03/28/13	0752	On	11924.0	25.0	NR	NR	7.5	57	30.07	0.0	126	2.5	NR	NR	NR	NR	NR	1431888.5	526.5	22.6	1.785	0.071	AS deactivated for bio augmentation
03/29/13	0740	On	11947.8	23.8	NR	NR	7.0	58	30.14	0.0	124	2.6	NR	NR	NR	NR	NR	1431908.0	537.0	15.3	1.173	0.049	AS deactivated for bio augmentation
04/01/13	0700	On	12019.1	71.3	NR	NR	7.0	58	29.62	0.0	126	2.5	NR	NR	NR	NR	NR	1431908.1	522.0	13.1	2.926	0.041	AS deactivated for bio augmentation
04/02/13	0640	On	12042.8	23.7	NR	NR	7.0	58	29.92	0.0	119	2.6	NR	NR	NR	NR	NR	1431908.1	535.1	11.6	0.883	0.037	AS deactivated for bio augmentation
04/03/13	0636	On	12066.8	24.0	NR	NR	7.0	58	30.14	0.0	119	2.7	NR	NR	NR	NR	NR	1431908.1	547.3	12.7	1.001	0.042	AS deactivated for bio augmentation
04/04/13	0625	On	12090.5	23.7	NR	NR	7.0	58	30.16	0.0	120	2.6	NR	NR	NR	NR	NR	1431908.1	537.2	10.0	0.764	0.032	AS deactivated for bio augmentation
04/05/13	0649	On	12115.0	24.5	NR	NR	7.0	58	29.91	0.0	125	2.6	NR	NR	NR	NR	NR	1431908.1	535.0	9.4	0.739	0.030	AS deactivated for bio augmentation
04/08/13	0727	On	12187.6	72.6	NR	NR	7.0	59	30.01	0.0	126	2.6	NR	NR	NR	NR	NR	1431908.1	535.4	8.3	1.936	0.027	AS deactivated for bio augmentation
04/09/13	0720	On	12211.5	23.9	NR	NR	7.0	58	29.92	0.0	126	2.6	NR	NR	NR	NR	NR	1431908.1	535.1	7.9	0.606	0.025	AS deactivated for bio augmentation
04/10/13	0754	On	12234.7	23.2	NR	NR	7.0	60	29.99	0.0	128	2.5	NR	NR	NR	NR	NR	1431908.1	524.3	7.1	0.518	0.022	AS deactivated for bio augmentation
04/11/13	0710	On	12257.9	23.2	NR	NR	7.0	57	30.13	0.0	124	2.5	NR	NR	NR	NR	NR	1431908.1	527.0	8.5	0.624	0.027	AS deactivated for bio augmentation
04/12/13	0737	On	12282.4	24.5	NR	NR	8.0	57	29.79	0.0	130	2.4	NR	NR	NR	NR	NR	1431908.1	513.5	9.1	0.687	0.028	AS deactivated for bio augmentation
04/15/13	0739	On	12354.4	72.0	NR	NR	7.0	58	30.19	0.0	125	2.6	NR	NR	NR	NR	NR	1432035.8	537.5	6.6	1.532	0.021	AS deactivated for bio augmentation
04/16/13	0728	On	12378.2	23.8	NR	NR	7.0	59	30.00	0.0	133	2.5	NR	NR	NR	NR	NR	1432035.8	524.9	8.0	0.600	0.025	AS deactivated for bio augmentation
04/17/13	0743	On	12402.5	24.3	NR	NR	7.0	59	30.31	0.0	129	2.5	NR	NR	NR	NR	NR	1432035.8	527.6	7.6	0.585	0.024	AS deactivated for bio augmentation
04/18/13	0735	On	12425.5	23.0	NR	NR	8.0	58	30.04	0.0	135	2.5	NR	NR	NR	NR	NR	1432035.8	525.7	9.5	0.689	0.030	AS deactivated for bio augmentation
04/19/13	0742	On	12449.6	24.1	NR	NR	8.0	63	29.55	0.0	143	2.4	NR	NR	NR	NR	NR	1432035.8	508.4	8.2	0.603	0.025	AS deactivated for bio augmentation
04/22/13	0740	On	12521.6	72.0	NR	NR	8.5	59	3														

Table D-4
Site 3805C
Historic O&M Data
Fort Drum, NY

Date	Time	System Condition	SVE Hour Meter	SVE Hours Operated	Sparge Hour Meter	Sparge Hours Operated	SVE Influent Vacuum (in Hg)	SVE Influent Temperature (F)	Barometric Pressure (in Hg)	SVE Effluent Pressure (in H ₂ O)	SVE Effluent Temperature (F)	SVE Differential Pressure (in H ₂ O)	Sparge Influent Pressure (psi)	Sparge Influent Temperature (F)	Sparge Effluent Pressure (psi)	Sparge Effluent Temperature (F)	Sparge Differential Pressure (2-15) (in H ₂ O)	Sparge Differential Pressure (2-16) (in H ₂ O)	Sparge Differential Pressure (2-23) (in H ₂ O)	Sparge Differential Pressure (2-24) (in H ₂ O)	OWS Cumulative Flow* (gallons)	Air Flow (cfm)	System Effluent (ppm)	Total Mass Recovered (lbs)	Total Recovery Rate (lbs/hr)	Notes
02/01/13	0750	On	14581.4	23.7	16634.8	23.7	2.5	53.0	29.90	1.6	90.0	2.4	8.5	94.0	6.0	59.0	0.00	0.005	0.14	0.04	643264.0	516.4	0.0	0.000	0.000	
02/04/13	0800	On	14653.5	72.1	16706.9	72.1	2.5	50.0	29.86	1.8	70.0	2.4	8.5	92.0	6.5	57.0	0.00	0.004	0.14	0.04	643264.0	517.6	0.0	0.000	0.000	
02/05/13	0745	On	14677.4	23.9	16730.8	23.9	2.0	45.0	29.94	2.0	60.0	2.4	9.0	80.0	7.0	50.0	0.00	0.000	0.14	0.04	643264.0	520.8	0.4	0.030	0.001	
02/06/13	0740	On	14701.2	23.8	16754.7	23.9	3.0	52.0	29.99	1.7	80.0	2.4	8.0	100.0	6.5	60.0	0.00	0.003	0.13	0.04	643264.0	517.7	0.0	0.000	0.000	
02/07/13	0720	On	14724.9	23.7	16778.3	23.6	2.0	47.0	30.40	2.3	64.0	2.4	9.0	83.0	7.0	51.0	0.00	0.000	0.14	0.04	643264.0	523.8	0.7	0.052	0.002	
02/08/13	0845	On	14750.3	25.4	16803.7	25.4	2.5	50.0	30.05	2.0	70.0	2.4	8.5	91.0	6.5	56.0	0.00	0.001	0.14	0.04	643264.0	519.2	0.0	0.000	0.000	
02/11/13	0840	On	14822.2	71.9	16875.6	71.9	5.0	63.0	29.70	0.5	91.0	2.3	8.0	110.0	5.5	74.0	0.00	0.004	0.14	0.04	643264.0	499.0	0.3	0.065	0.001	
02/12/13	0820	On	14845.9	23.7	16899.3	23.7	4.0	56.0	29.71	1.5	90.0	2.5	8.0	106.0	6.0	64.0	0.00	0.005	0.13	0.04	643367.9	523.9	0.0	0.000	0.000	
02/13/13	0835	On	14870.2	24.3	16923.6	24.3	4.0	59.0	29.83	1.3	87.0	2.8	8.0	105.0	6.0	68.0	0.00	0.005	0.14	0.04	643389.9	553.9	0.0	0.000	0.000	
02/14/13	0731	On	14893.0	22.8	16946.4	22.8	3.5	57.0	29.87	1.3	85.0	2.4	8.0	103.0	6.0	65.0	0.00	0.005	0.14	0.04	643389.9	514.2	0.4	0.028	0.001	
02/15/13	0726	On	14917.0	24.0	16970.4	24.0	4.0	63.0	29.86	1.3	92.0	2.7	7.5	111.0	6.0	58.0	0.00	0.006	0.13	0.04	643389.9	542.1	0.6	0.047	0.002	
02/18/13	0803	On	14989.6	72.6	17043.0	72.6	2.0	42.0	30.20	2.2	60.0	2.5	8.5	79.0	6.5	42.0	0.00	0.000	0.08	0.00	643389.9	535.5	0.6	0.140	0.002	
02/19/13	0744	On	15013.2	23.6	17066.7	23.7	4.0	54.0	29.67	1.2	85.0	2.4	7.5	98.0	5.5	64.0	0.00	0.002	0.08	0.03	643389.9	513.9	0.5	0.036	0.002	
02/20/13	0824	On	15037.9	24.7	17091.4	24.7	3.0	51.0	29.79	1.7	79.0	2.4	7.5	96.0	6.0	56.0	0.00	0.003	0.08	0.03	643389.9	516.5	0.0	0.000	0.000	
02/21/13	0830	On	15062.0	24.1	17115.4	24.0	2.0	44.0	30.09	2.2	64.0	2.5	8.0	84.0	84.0	50.0	0.00	0.000	0.08	0.03	643389.9	533.4	0.0	0.000	0.000	
02/22/13	0708	On	15084.7	22.7	17138.1	22.7	3.0	54.0	30.28	1.8	65.0	2.8	8.5	98.0	7.0	60.0	0.00	0.004	0.13	0.04	643389.9	560.8	0.1	0.008	0.000	
02/25/13	0735	On	15155.9	71.2	17209.3	71.2	4.0	62.0	30.12	1.4	86.0	2.9	8.0	109.0	6.0	70.0	0.00	0.005	0.12	0.02	643389.9	564.8	0.0	0.000	0.000	
02/26/13	0818	On	15180.6	24.7	17234.0	24.7	3.0	56.0	30.17	1.6	80.0	2.4	8.5	102.0	6.5	67.0	0.00	0.005	0.12	0.02	643389.9	517.2	0.0	0.000	0.000	
02/27/13	1145	On	15208.1	27.5	17261.5	27.5	4.5	68.0	29.66	1.0	91.0	2.8	7.5	115.0	5.5	78.0	0.00	0.009	0.12	0.03	643389.9	547.6	0.0	0.000	0.000	
02/28/13	0747	On	15228.1	20.0	17281.5	20.0	4.0	63.0	29.60	1.2	89.0	2.7	8.0	111.0	5.5	72.0	0.00	0.007	0.12	0.02	643389.9	539.7	0.2	0.013	0.001	
03/01/13	0748	On	15252.1	24.0	17305.5	24.0	3.5	62.0	29.76	1.4	84.0	2.4	8.0	109.0	5.5	69.0	0.00	0.006	0.12	0.03	643389.9	510.7	0.0	0.000	0.000	
03/04/13	0807	On	15324.4	72.3	17377.9	72.4	3.0	53.0	29.90	1.8	76.0	2.4	8.5	98.0	6.5	59.0	0.00	0.005	0.12	0.02	643389.9	516.4	0.3	0.067	0.001	
03/05/13	0919	On	15349.6	25.2	17403.1	25.2	3.5	58.0	30.07	1.4	82.0	2.4	7.5	94.0	5.5	68.0	0.00	0.003	0.07	0.01	643389.9	515.4	0.0	0.000	0.000	
03/06/13	0913	On	15373.5	23.9	17427.0	23.9	4.0	59.0	30.12	1.4	84.0	2.6	7.5	100.0	5.5	68.0	0.00	0.005	0.07	0.01	643389.9	536.3	0.3	0.023	0.001	
03/07/13	0907	On	15397.4	23.9	17450.8	23.8	4.0	62.0	30.24	1.4	86.0	2.8	7.5	106.0	5.5	70.0	0.00	0.005	0.08	0.03	643389.9	556.1	0.1	0.008	0.000	
03/08/13	0757	On	15420.2	22.8	17473.6	22.8	3.5	59.0	30.30	1.6	83.0	2.4	8.0	102.0	6.0	66.0	0.00	0.005	0.07	0.02	643389.9	516.8	0.0	0.000	0.000	
03/11/13	0813	On	15491.5	71.3	17544.9	71.3	5.0	73.0	29.90	0.5	98.0	2.5	8.0	120.0	5.5	85.0	0.00	0.010	0.13	0.04	643389.9	517.1	0.0	0.000	0.000	
03/12/13	0804	On	15515.3	23.8	17568.7	23.8	4.5	69.0	29.81	1.2	96.0	2.7	8.0	118.0	6.0	77.0	0.00	0.010	0.12	0.04	643389.9	538.6	0.0	0.000	0.000	
03/13/13	0730	On	15538.8	23.5	17592.2	23.5	4.0	64.0	29.83	1.4	89.0	2.4	8.0	113.0	6.0	73.0	0.00	0.010	0.12	0.03	643389.9	510.4	0.0	0.000	0.000	
03/14/13	0825	On	15563.7	24.9	17617.1	24.9	2.5	53.0	29.91	2.0	72.0	2.4	8.5	97.0	6.5	57.0	0.00	0.007	0.13	0.03	643389.9	516.5	0.1	0.008	0.000	
03/15/13	0813	On	15587.5	23.8	17640.9	23.8	3.5	54.0	29.70	1.4	76.0	2.4	8.5	99.0	6.5	64.0	0.00	0.005	0.13	0.03	643389.9	514.2	0.0	0.000	0.000	
03/18/13	0816	On	15659.5	72.0	17713.0	72.1	3.0	50.0	30.14	1.9	72.0	2.8	9.0	94.0	7.0	59.0	0.00	0.005	0.13	0.03	643389.9	561.7	0.0	0.000	0.000	
03/19/13	0818	On	15677.5	18.0	17737.0	24.0	0.0	55.0	29.76	2.2	78.0	2.8	8.0	99.0	6.0	63.0	0.00	0.005	0.07	0.02	643389.9	555.4	1.3	0.078	0.004	Off due to air leak. System was fixed and restarted
03/20/13	0723	On	15700.6	23.1	17760.1	23.1	0.5	56.0	29.75	1.6	81.0	2.4	7.5	99.0	6.0	63.0	0.00	0.005	0.07	0.01	643389.9	513.6	0.0	0.000	0.000	
03/21/13	0757	On	15725.1	24.5	17784.7	24.6	3.0	54.0	29.71	1.6	78.0	2.7	8.5	101.0	6.5	64.0	0.00	0.005	0.12	0.03	643389.9	545.5	0.0	0.000	0.000	
03/22/13	0835	On	15749.7	24.6	17809.3	24.6	3.5	57.0	29.72	1.5	80.0	2.6	8.5	107.0	6.0	65.0	0.00	0.005	0.12	0.03	643389.9	533.8	0.0	0.000	0.000	
03/25/13	0744	On	15820.9	71.2	17880.4	71.1	4.0	60.0	29.70	1.4	84.0	2.4	8.0	98.0	6.0	70.0	0.00	0.005	0.05	0.03	643389.9	511.2	0.0	0.000	0.000	
03/26/13	0710	On	15844.1	23.2	17902.1	21.7	4.0	64.0	29.80	1.4	88.0	2.4	8.0	113.0	6.0	72.0	0.00	0.008	0.12	0.01	643389.9	510.1	0.0	0.000	0.000	
03/27/13	0634	On	15867.5	23.4	17925.5	23.4	4.0	64.0	29.94	1.4	90.0	2.4	8.0	113.0	6.0	71.0	0.00	0.008	0.13	0.02	643389.9	511.3	0.0	0.000	0.000	
03/28/13	0816	On	15893.2	25.7	17951.2	25.7	4.5	66.0	30.07	1.4	91.0	2.4	8.0	116.0	6.0	74.0	0.00	0.008	0.12	0.02	643389.9	511.4	0.0	0.000	0.000	
03/29/13	0710	On	15916.1	22.9	17974.1	22.9	4.5	67.0	30.14	1.4	92.0	2.4	8.0	116.0	6.0	75.0	0.00	0.008	0.13	0.02	643389.9	511.5	0.0	0.000	0.000	
04/01/13	0641	On	15987.6	71.5	18045.6	71.5	4.0	72.0	29.62	1.0	98.0	2.4	8.0	120.0	5.5	82.0	0.00	0.010	0.13	0.02	643389.9	504.7	0.0	0.000	0.000	
04/02/13	0621	On	16011.3	23.7	18069.3	23.7	3.5	55.0	29.92	1.8	80.0	2.4	8.5	102.0	6.5	61.0	0.00	0.005	0.13	0.01	643389.9	515.6	0.0	0.000	0.000	
04/03/13	0553	On	16034.8	23.5	18092.8	23.5	3.5	53.0	30.14	1.8	80.0	2.4	8.5	102.0	6.5	64.0	0.00	0.005	0.13	0.01	643389.9	518.5	0.0	0.000	0.000	
04/04/13	556	On	16058.9	24.1	18116.9	24.1	3.5	58.0	30.16	1.8	82.0	2.5	8.5	105.0	6.5	66.0	0.00	0.005	0.13	0.01	643389.9	526.8	0.0	0.000	0.000	
04/05/13	0628	On	16083.4	24.5	18141.4	24.5	4.5	64.0	29.91	1.4	92.0	2.4	8.0	116.0	5.5	75.0	0.00	0.010	0.12	0.02	643389.9	511.0	0.0	0.000	0.000	
04/08/13	0657	On	16155.9	72.5	18123.9	72.5	4.5	67.0	30.01	1.4	94.0	2.8	8.0	117.0	6.0	77.0	0.00	0.010	0.13	0.02	643389.9	551				

APPENDIX E

Summary of Well Gauging Results and Operation and Maintenance Data

AAFES Station – Building P-2140

**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)
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**

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)
	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
	08/11/2011	646.30	22.01	624.29	-	-	624.29
	09/29/2011	646.30	NR	-	-	-	-
	10/19/2011	646.30	22.39	623.91	-	-	623.91
	11/17/2011	646.30	23.71	622.59	-	-	622.59
	12/07/2011	646.30	23.56	622.74	-	-	622.74
	01/09/2012	646.30	23.67	622.63	-	-	622.63
	02/15/2012	646.30	22.79	623.51	-	-	623.51
	03/12/2012	646.30	22.60	623.70	-	-	623.70
	04/17/2012	646.30	24.20	622.10	-	-	622.10
	05/17/2012	646.30	24.15	622.15	-	-	622.15
	06/14/2012	646.30	24.50	621.80	-	-	621.80
	07/11/2012	646.30	24.65	621.65	-	-	621.65
	08/16/2012	646.30	24.81	621.49	-	-	621.49
	09/13/2012	646.30	24.75	621.55	-	-	621.55
	10/18/2012	646.30	24.61	621.69	-	-	621.69
	11/15/2012	646.30	24.78	621.52	-	-	621.52
	12/06/2012	646.30	24.88	621.42	-	-	621.42

**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)
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
	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	-	

**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)
	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
	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	-	-	

**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)
	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
	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
	08/11/2011	646.36	22.91	623.45	-	-	623.45
	09/29/2011	646.36	23.29	623.07	-	-	623.07
	10/19/2011	646.36	24.03	622.33	-	-	622.33
	11/17/2011	646.36	24.52	621.84	-	-	621.84
	12/07/2011	646.36	23.31	623.05	-	-	623.05
	01/09/2012	646.36	27.54	618.82	-	-	618.82
	02/15/2012	646.36	26.98	619.38	-	-	619.38
	03/12/2012	646.36	23.31	623.05	-	-	623.05
	04/17/2012	646.36	26.25	620.11	-	-	620.11
	05/17/2012	646.36	26.74	619.62	-	-	619.62
	06/14/2012	646.36	27.20	619.16	-	-	619.16
	07/11/2012	646.36	27.39	618.97	-	-	618.97
	08/16/2012	646.36	27.46	618.90	-	-	618.90
	09/13/2012	646.36	27.51	618.85	-	-	618.85
	10/18/2012	646.36	27.38	618.98	-	-	618.98

**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)
	11/15/2012	646.36	27.41	618.95	-	-	618.95
	12/06/2012	646.36	27.71	618.65	-	-	618.65
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
	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	-	-

**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	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
	06/20/2011	646.04	24.01	622.03	-	-	622.03
	07/13/2011	646.04	20.41	625.63	-	-	625.63
	08/11/2011	646.04	21.68	624.36	-	-	624.36
	09/29/2011	646.04	21.57	624.47	-	-	624.47
	10/19/2011	646.04	21.17	624.87	-	-	624.87
	11/17/2011	646.04	21.40	624.64	-	-	624.64
	12/07/2011	646.04	20.98	625.06	-	-	625.06
	01/09/2012	646.04	22.09	623.95	-	-	623.95
	02/15/2012	646.04	21.81	624.23	-	-	624.23
	03/12/2012	646.04	20.98	625.06	-	-	625.06
	04/17/2012	646.04	25.89	620.15	-	-	620.15
	05/17/2012	646.04	26.04	620.00	-	-	620.00
	06/14/2012	646.04	26.59	619.45	-	-	619.45
	07/11/2012	646.04	26.75	619.29	-	-	619.29
	08/16/2012	646.04	26.81	619.23	-	-	619.23
	09/13/2012	646.04	26.73	619.31	-	-	619.31

**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)
	10/18/2012	646.04	26.52	619.52	-	-	619.52
	11/15/2012	646.04	26.83	619.21	-	-	619.21
	12/06/2012	646.04	27.00	619.04	-	-	619.04
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

**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)
	10/07/2007	641.04	NR	-	NR	-	-
	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	-	-

**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)
	07/30/2007	640.49	25.11	615.38	-	-	615.38
	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
	08/11/2011	640.49	25.01	615.48	-	-	615.48
	09/29/2011	640.49	19.93	620.56	-	-	620.56
	10/19/2011	640.49	19.98	620.51	-	-	620.51
	11/17/2011	640.49	19.78	620.71	-	-	620.71
	12/07/2011	640.49	19.71	620.78	-	-	620.78
	01/09/2012	640.49	20.20	620.29	-	-	620.29
	02/15/2012	640.49	19.97	620.52	-	-	620.52
	03/12/2012	640.49	21.36	619.13	-	-	619.13
	04/17/2012	640.49	24.46	616.03	-	-	616.03
	05/17/2012	640.49	24.63	615.86	-	-	615.86
	06/14/2012	640.49	25.05	615.44	-	-	615.44
	07/11/2012	640.49	25.21	615.28	-	-	615.28

**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)
	08/16/2012	640.49	25.63	614.86	-	-	614.86
	09/13/2012	640.49	25.20	615.29	-	-	615.29
	10/18/2012	640.49	25.13	615.36	-	-	615.36
	11/15/2012	640.49	25.25	615.24	-	-	615.24
	12/06/2012	640.49	25.41	615.08	-	-	615.08
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
	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

**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)
	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
	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

**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)
	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
	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
	08/11/2011	638.54	23.68	614.86	-	-	614.86
	09/29/2011	638.54	25.22	613.32	-	-	613.32
	10/19/2011	638.54	25.59	612.95	-	-	612.95
	11/17/2011	638.54	25.35	613.19	-	-	613.19
	12/07/2011	638.54	25.53	613.01	-	-	613.01
	01/09/2012	638.54	25.77	612.77	-	-	612.77
	02/15/2012	638.54	25.01	613.53	-	-	613.53
	03/12/2012	638.54	25.40	613.14	-	-	613.14
	04/17/2012	638.54	26.18	612.36	-	-	612.36
	05/17/2012	638.54	26.31	612.23	-	-	612.23

**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)
	06/14/2012	638.54	26.71	611.83	-	-	611.83
	07/11/2012	638.54	26.94	611.60	-	-	611.60
	08/16/2012	638.54	27.26	611.28	-	-	611.28
	09/13/2012	638.54	27.00	611.54	-	-	611.54
	10/18/2012	638.54	26.91	611.63	-	-	611.63
	11/15/2012	638.54	27.14	611.40	-	-	611.40
	12/06/2012	638.54	21.36	617.18	-	-	617.18
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
	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	-	-

**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)
	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	-	-
	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
	08/11/2011	633.87	22.98	610.89	-	-	610.89
	09/29/2011	633.87	24.31	609.56	-	-	609.56
	10/19/2011	633.87	24.16	609.71	-	-	609.71
	11/17/2011	633.87	24.03	609.84	-	-	609.84
	12/07/2011	633.87	23.97	609.90	-	-	609.90
	01/09/2012	633.87	23.71	610.16	-	-	610.16
	02/15/2012	633.87	23.11	610.76	-	-	610.76
	03/12/2012	633.87	23.13	610.74	-	-	610.74
	04/17/2012	633.87	24.25	609.62	-	-	609.62

**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)
	05/17/2012	633.87	24.38	609.49	-	-	609.49
	06/14/2012	633.87	24.90	608.97	-	-	608.97
	07/11/2012	633.87	25.33	608.54	-	-	608.54
	08/16/2012	633.87	25.81	608.06	-	-	608.06
	09/13/2012	633.87	25.50	608.37	-	-	608.37
	10/18/2012	633.87	25.33	608.54	-	-	608.54
	11/15/2012	633.87	25.59	608.28	-	-	608.28
	12/06/2012	633.87	25.82	608.05	-	-	608.05
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	-	-

**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)
	01/04/2007	633.50	NR	-	NR	-	-
	02/01/2007	633.50	23.16	610.34	-	-	610.34
	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
	08/11/2011	633.50	22.31	611.19	-	-	611.19
	09/29/2011	633.50	23.21	610.29	-	-	610.29
	10/19/2011	633.50	23.03	610.47	-	-	610.47
	11/17/2011	633.50	22.79	610.71	-	-	610.71
	01/09/2012	633.50	22.55	610.95	-	-	610.95
	02/15/2012	633.50	21.89	611.61	-	-	611.61
	03/12/2012	633.50	22.40	611.10	-	-	611.10
	04/17/2012	633.50	23.77	609.73	-	-	609.73

**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)
	05/17/2012	633.50	23.89	609.61	-	-	609.61
	06/14/2012	633.50	24.34	609.16	-	-	609.16
	07/11/2012	633.50	24.71	608.79	-	-	608.79
	08/16/2012	633.50	24.96	608.54	-	-	608.54
	09/13/2012	633.50	24.77	608.73	-	-	608.73
	10/18/2012	633.50	24.64	608.86	-	-	608.86
	11/15/2012	633.50	24.83	608.67	-	-	608.67
	12/06/2012	633.50	24.94	608.56	-	-	608.56
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
	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

**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)
	01/04/2007	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
	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

**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)
	01/04/2007	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
	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

**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)
	01/04/2007	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
	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

**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)
	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
	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

**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)
	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
	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

**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)
	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
	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

**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)
	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
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

**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)
	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
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

**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)
	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
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

**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)
	01/06/2006	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
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

**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)
	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
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

**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)
	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
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

**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)
	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
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

**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)
	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
	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	-	-

**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)
	01/13/2011	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
	08/11/2011	637.84	22.25	615.59	-	-	615.59
	09/29/2011	637.84	23.28	614.56	-	-	614.56
	10/19/2011	637.84	23.16	614.68	-	-	614.68
	11/17/2011	637.84	23.51	614.33	-	-	614.33
	12/07/2011	637.84	23.34	614.50	-	-	614.50
	01/09/2012	637.84	23.46	614.38	-	-	614.38
	02/15/2012	637.84	22.71	615.13	-	-	615.13
	03/12/2012	637.84	22.95	614.89	-	-	614.89
	04/17/2012	637.84	23.35	614.49	-	-	614.49
	05/17/2012	637.84	23.51	614.33	-	-	614.33
	06/14/2012	637.84	24.02	613.82	-	-	613.82
	07/11/2012	637.84	24.20	613.64	-	-	613.64
	08/16/2012	637.84	24.53	613.31	-	-	613.31
	09/13/2012	637.84	24.33	613.51	-	-	613.51
	10/18/2012	637.84	24.20	613.64	-	-	613.64
	11/15/2012	637.84	24.62	613.22	-	-	613.22
	12/06/2012	637.84	24.70	613.14	-	-	613.14
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
	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

**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)
	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	-	-	-	-
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	-	-	-	-

**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)
	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	-	-	-	-
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	-	-	-	-

**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)
	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
	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	

**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)
	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
	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

**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)
	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
	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

**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)
	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
	08/11/2011	633.25	22.89	610.36	-	-	610.36
	09/29/2011	633.25	24.59	608.66	-	-	608.66
	10/19/2011	633.25	24.37	608.88	-	-	608.88
	11/17/2011	633.25	24.39	608.86	-	-	608.86
	12/07/2011	633.25	24.25	609.00	-	-	609.00
	01/09/2012	633.25	23.99	609.26	-	-	609.26
	02/15/2012	633.25	23.16	610.09	-	-	610.09
	03/12/2012	633.25	23.34	609.91	-	-	609.91
	04/17/2012	633.25	23.73	609.52	-	-	609.52
	05/17/2012	633.25	23.85	609.40	-	-	609.40
	06/14/2012	633.25	24.38	608.87	-	-	608.87
	07/11/2012	633.25	24.87	608.38	-	-	608.38
	08/16/2012	633.25	25.01	608.24	-	-	608.24
	09/13/2012	633.25	25.05	608.20	-	-	608.20
	10/18/2012	633.25	24.93	608.32	-	-	608.32
	11/15/2012	633.25	25.19	608.06	-	-	608.06
	12/06/2012	633.25	25.33	607.92	-	-	607.92
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

**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)
	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
	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

**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)
	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
	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

**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)
	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
	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

**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)
	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
	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

**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)
	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
	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
February 2013 - April 2013 O&M Data
Fort Drum, NY

Date	Time	System Condition	Injecting at Point	Air Flow Rate (scfm)	Air Flow Pressure (psi)	Notes
02/01/13	0715	On	IJKO	4,2.5,1.7,2.9	6,6,6,5	
02/04/13	0725	On	JKL	2,8,2,0,2,8	6,7,6	
02/05/13	0720	On	I,O	0,2,6,0	16,16	
02/06/13	0720	On	M,N,O	2,0,2,0,2,0	6,5,3	
02/07/13	0710	On	J,K,L	2,7,2,5,2,7	6,6,6	
02/08/13	0800	On	KLM	2,0,2,0,2,0	5,5,6	
02/11/13	0745	On	KLM	1,8,2,0,1,8	5,2,5	
02/12/13	0805	On	LMN	2,0,1,9,1,6	3,5,3	
02/13/13	0755	On	IJKO	0,1,6,1,7,2,0	0,5,5,3	
02/14/13	0718	On	KLM	1,8,2,0,2,0	3,1,5	
02/15/13	0713	On	IJKO	0,1,7,1,8,2,0	0,5,5,3	
02/18/13	0740	On	KLM	1,9,2,1,2	5,5,6	
02/19/13	0716	On	IJKO	0,1,0,1,2,3,6	0,3,3,2	
02/20/13	0734	On	I,O	0,3,5	0,7,5	
02/21/13	0753	On	I,J,N	0,2,,2	0,5,5	
02/22/13	0653	On	I,O	0,3,2	0,7,5	
02/25/13	0721	On	K,L,M	0,8,1,6,1,5	2,2,5	
02/26/13	0803	On	KLM	1,2,1,5,1,5	2,2,4	
02/27/13	1131	On	IJKO	0,1,0,1,2,1,5	0,3,3,1	
02/28/13	0730	On	L,M,N	1,5,1,5,1,5	1,5,1	
03/01/13	0732	On	JKL	0,1,2,1,4	3,3,1	
03/04/13	0728	On	KLM	1,2,1,5,1,3	3,3,5	
03/05/13	0732	On	IJKO	0,1,1,3,0	0,3,3,0	
03/06/13	0750	On	IJKO	0,1,1,1,3,1,5	0,3,3,2	
03/07/13	0750	On	IJN	0,2,2	0,5,5	
03/08/13	0740	On	KLM	1,1,2,1,2	3,3,5	
03/11/13	0749	On	IJKO	0,1,1,1,3,1,5	0,3,3,1	
03/12/13	0748	On	IJN	0,2,2	0,5,5	
03/13/13	0717	On	JKL	1,1,3,1,5	3,3,3	
03/14/13	0800	On	JKL	1,1,3,1,5	3,3,3	
03/15/13	0756	On	I,O	0,1,3,7	3,7	
03/18/13	0747	On	IJKO	0,3,1,1,2,3,2	2,3,2,2	
03/19/13	0737	On	MNO	1,3,1,0,3	5,1,1	
03/20/13	0704	On	IJKO	0,1,1,2,3	0,3,3,1	
03/21/13	0741	On	IJKO	0,1,1,2,3	0,3,3,1	
03/22/13	0806	On	IJKO	0,1,1,3,3,7	0,3,3,1	
03/25/13	0900	On	IJN	0,1,8,2	0,5,5	
03/26/13	0655	On	JKL	1,1,3,1,5	3,3,3	
03/27/13	0618	On	MNO	1,3,1,0,2,9	5,1,1	
03/28/13	0633	On	LMN	1,5,1,4,1,0	3,3,2	
03/29/13	0650	On	KLM	1,3,1,4,1,3	2,2,5	
04/01/13	0630	On	KLM	1,3,1,5,1,5	1,1,5	
04/02/13	0608	On	IJN	0,2,2	0,5,5	
04/03/13	0623	On	MNO	1,4,1,2,3,0	5,2,2	
04/04/13	0702	On	IJN	0,2,2	0,5,5	
04/05/13	0616	On	IJKO	0,3,3,3	1,3,3,3	
04/08/13	0637	On	JKL	0,0,0	0,0,0	
04/09/13	0645	On	I,O	0,0	0,0	
04/10/13	0708	On	I,O	0,0	0,0	
04/11/13	0650	On	JKL	0,0,0	0,0,0	
04/12/13	0655	On	IJKO	0,0,0,0	0,0,0,0	
04/15/13	0653	On	IJKO	0,0,0,0	0,0,0	
04/16/13	0650	On	IJN	0,0,0	0,0,0	
04/17/13	0701	On	MNO	0,0,0	0,0,0	
04/18/13	0700	On	KLM	0,0,0	0,0,0	
04/19/13	0705	On	IJKO	0,0,0,0	0,0,0	
04/22/13	0659	On	JKL	0,0,0	0,0,0	
04/23/13	0634	On	MNO	0,0,0	0,0,0	
04/24/13	0709	On	IJN	0,0,0	0,0,0	
04/25/13	0724	On	MNO	0,0,0	0,0,0	
04/26/13	0820	On	IJN	0,0,0	0,0,0	
04/29/13	0605	On	MNO	0,0,0	0,0,0	
04/30/13	0558	On	KLM	0,0,0	0,0,0	

Notes:

NR = Not Recorded.

scfm = Standard Cubic Feet per Minute

psi = Pressure per Square Inch

APPENDIX F

Remedial System Action List

Appendix F
February - April 2013
Remedial System Action List
Fort Drum, New York

Date	Action Taken
Area 1295 - Ozone System	
	The ozone system did not experience any downtime during the February 2013 - April 2013 reporting period.
Area 1595	
03/25/13	The AAS/SVE systems were deactivated for the bio augmentation. The systems will remain offline until the application has been completed.
Area 1795, System A	
03/13/13	The AAS/SVE systems were offline due to a compressor leak. The system was repaired and restarted.
03/18/13	The AAS/SVE systems were offline due to a compressor leak. The system was repaired and restarted.
04/02/13	The AAS/SVE systems were offline due to a power outage. The system was checked and restarted.
04/04/13	The AAS system was offline due to an air leak. The system was checked and restarted.
04/29/13	The AAS/SVE systems were offline due to a compressor leak. The system was repaired and restarted.
Area 1795, System B	
04/02/13	The AAS system was offline due to an air leak. The system was repaired and restarted.
Area 1795, System C	
01/21/13	The AAS system did not experience any downtime during the February 2013 - April 2013 reporting period.
Areas 3805 & 1995, System A	
	The system was not operational for the February 2013 - April 2013 reporting period
Areas 3805 & 1995, System B	
02/04/13	The AAS/SVE systems were offline due to broken drive belts. Parts were ordered to complete the repairs.
02/12/13	The AAS/SVE systems were reactivated upon repairs to the drive belts and blowers.
02/28/13	The SVE system was offline due to a air stripper fault. The system was checked and restarted.
03/25/13	The AAS system was deactivated for the bio augmentation. The system will remain offline until the application has been completed.
Areas 3805 & 1995, System C	
03/19/13	The SVE system was offline due to an air compressor leak. The system was repaired and restarted.
01/02/13	The SVE system was reactivated replacing air compressor line.
01/21/13	The AAS/SVE systems were offline due to a power outage. The systems were checked and restarted.
Areas 3805 & 1995, System D	
03/25/13	The AAS system was deactivated for the bio augmentation. The system will remain offline until the application has been completed.
AAFES Station	
3/26/2012	The system was not operational for the February 2013 - April 2013 reporting period
AAFES Station - Ozone System	
	The ozone treatment system did not experience any downtime during the February 2013 - April 2013 reporting period.