# Quarterly Report of Progress (November 2010-January 2011)
# Operations and Maintenance
# Remediation Systems for Gasoline Alley and Army Air Force Exchange Service Station
# Fort Drum, New York

U.S. Army Environmental Command

March 2011

# Quarterly Report of Progress (November 2010-January 2011)
# Operations and Maintenance
# Remediation Systems for Gasoline Alley and
# Army Air Force Exchange Service Station
# Fort Drum, New York

*Prepared for*

U.S. Army Environmental Command
11711 North IH 35, Suite 110
San Antonio, TX 78233-5498

*Prepared by*

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

Gregory Kendall — Date
Project Manager

Landon McKenney — Date
Site Manager

# TABLE OF CONTENTS

# FIGURES

## TABLES



## APPENDICES

# 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 |
| ug/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 |
| UVOST | Ultra-Violet Optical Screening Tool |
| VOC | Volatile Organic Compounds |

# 1.0 INTRODUCTION

## 1.1 Gasoline Alley Site Descriptions

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 following Gasoline Alley sites through 31 January 2011.

### 1.1.1 Area 1295

Three areas of soil and groundwater contamination have been identified during the installation of monitoring wells, as well as through direct push sampling. No remediation system was ever installed due to site constraints. Alternatively, in-situ chemical oxidation (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-feet (ft) wide north south trending area of impacted soils and groundwater extending between eight and 12 ft below grade surface (bgs).

As outlined in the Workplan for Mobile Ozone Aquifer Air Sparging System, dated August 2009, Plexus intended to install 12 injection points to a depth of approximately 12-ft bgs. The injection points were to be constructed of one-inch schedule 80 PVC consisting of two-feet of 40-micron Schuma Screen diffuser and approximately 10-ft of solid riser to be finished at grade with a flushmount well cover. The intent of the injection duration was to be one-month followed by an evaluation and determination of future application. Based on the response to treatment from other area applications and for flexibility in treatment technology, Plexus installed 12 points to depths ranging from 11 – 13-ft bgs with a standard 2-inch monitoring well construction. Injection stingers were constructed as detailed in the work plan for ozone application to a typical monitoring well. 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 will resume operation in April 2011. Results and recommendations for this site are presented later in this document.

### 1.1.2 Area 1595

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

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. Results and recommendations for this site are presented later in this document.

### 1.1.3 Area 1795

The bio-slurping pilot treatment system was shut down in September 2000. Select site wells were subsequently gauged on a monthly basis between September 2000 and July 2006 to monitor the water table elevation and light non-aqueous phase liquids (LNAPL). LNAPL were recovered from site wells when present. 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)

The system was shut down on 22 April 2010 in preparation of ozone injection activities.

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

### 1.1.4 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. Results and recommendations for this site are presented later in this document.

## 1.2 Army Air Force Exchange Service Station Site Description

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

### 1.2.1 Dual-Phase Extraction System

A dual-phase extraction (DPE) treatment system began operation on 30 January 2002. 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. In addition, AAS in the source area is expected to increase contaminant recovery rates during periods of elevated water table and provide an overall cost savings for the duration of the site remediation by accelerating the removal of constituents of concern. Field activities associated with the DPE system enhancements were completed between November 2005 and February 2006, which included the installation of 16 AAS wells and associated underground piping, and retrofitting an existing trailer with AAS equipment.

As outlined in the Workplan for Mobile Ozone Aquifer Air Sparging System, dated August 2009, Plexus installed seven injection points ranging between 25 – 30-ft bgs in the area of monitoring well MW02 and downgradient. The DPE/AAS system was shut down on 22 December 2009 in preparation of ozone injection activities. The ozone treatment unit began operation on 22 December 2009, running through 12 May 2010 when the ozone generator circuit board failed and the system was switched to air sparge only. The ozone system was taken completely off line on 24 June 2010 for system repairs and upgrades and the existing DPE/AAS system was activated. As of 24 September 2010, the ozone injection system was mobilized back to the site and reactivated. Although fluctuations in DO and ORP were observed during the applications at Areas 1395 and 1595, the depth and concentrations experienced at AAFES Station (Building P-2140) indicated that a continuous application coupled with the scheduled sampling events would be necessary to monitor contaminant reduction and determine deactivation. Since the observed impact appears to be at a depth greater than the existing DPE infrastructure, ozone is being applied to the subsurface of the service station via seven newly installed injection points. Results and recommendations for this site are presented later in this document.

### 1.2.2 Aquifer Air Sparging with Ozone System

The AAS with ozone treatment system was installed in Fall 2000, and began operation on 14 December 2000. The purpose of the AAS with ozone treatment system is to treat the dissolved-phase benzene, toluene, ethylbenzene, and total xylenes and methyl tertiary-butyl ether plume downgradient of the source area prior to the downgradient wetlands and Fort Drum property line. Analytical results from the groundwater samples in this area indicated that total BTEX concentrations in groundwater had been reduced below New York State Department of Environmental Conservation (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 later in this document.

# 2.0 SYSTEM OPERATION AND PERFORMANCE MONITORING ACTIVITIES

System operation and performance monitoring activities were completed at each site by Plexus during the reporting period (November 2010 to January 2011). Plexus took over the operation and monitoring activities from EA effective 1 May 2008. The one exception is Area 1795, which Plexus took over effective 7 July 2008.

## 2.1 Area 1295

### 2.1.1 Ozone System

Continued elevated concentrations of dissolved petroleum hydrocarbon within the groundwater indicated that active remediation was necessary. The results of the MIP and LIF UVOST Investigations, conducted in April 2009, indicated an area of soil contamination potentially contributing to the groundwater impact. Subsequently, the ozone treatment unit was mobilized from Area 1795 and began operation on 22 July 2010 at the site. Ozone application to the subsurface was conducted in the area via 12 injection points (**Figure 2-1**).

### 2.1.2 Performance Monitoring

Daily performance monitoring and O&M activities were conducted at Area 1295 while the ozone system was active at the site. 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 24 days during the reporting period. Based on the 24 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 |
|---|---|---|---|
| Operation problem | 0 | 92 | 0 |
| Unscheduled downtime | 0 | 92 | 0 |
| Scheduled | 68 | 92 | 68 |
| Total downtime | 68 | 92 | 73 |

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

| Shut Down | Restarted | Reason | Description |
|---|---|---|---|
| 12/7/2010 | 1/31/2011 | Scheduled | Off due to weather conditions |

## 2.2 Area 1595

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.

### 2.2.1 Soil Vapor Extraction System

#### *2.2.1.1 System Operation*

The Area 1595 SVE treatment system (**Figure 2-2**) did not operate between 1 November 2010 and 31 January 2011. The system was shut down on 13 April 2010 for an LNAPL recharge test. The recharge test results indicated little to no recharge and these results combined with the low hydrocarbon vapor recovery, as indicated in the daily system effluent vapor records, supported the continued deactivation of the SVE portion of System 1595. LNAPL gauging of selected monitoring and system wells will continue, and the SVE system will be activated should gauging results indicate that it is necessary.

### 2.2.2 Aquifer Air Sparging System

#### *2.2.2.1 System Operation*

The Area 1595 AAS system operated for 88 days between 1 November 2010 and 31 January 2011 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 |
|---|---|---|---|
| Operation problem | 0 | 92 | 0 |
| Unscheduled downtime | 1 | 92 | 1 |
| Scheduled | 3 | 92 | 3 |
| Total downtime | 4 | 92 | 4 |

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

| Shut Down | Restarted | Reason | Description |
|---|---|---|---|
| 1/11/11 | 1/14/11 | Scheduled | YSI sampling event |
| 1/26/11 | 1/26/11 | Unscheduled | Power Outage |

#### *2.2.2.2 Performance Monitoring*

Daily performance monitoring and O&M activities were conducted at the Area 1595 AAS system. 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 photoionization detector (PID) readings were collected on a monthly basis from select wells, beginning in December 2008, to help analyze system effectiveness.

## 2.3 Area 1795

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

### 2.3.1 Multi-Phase Extraction Systems

#### *2.3.1.1 Area 1795 - System A Operation*

The initial design configuration for Area 1795 System A (**Figure 2-3**) 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 91 days between 1 November 2010 and 31 January 2011 derived from the system's operation hour meter. Based on the 92 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 |
|---|---|---|---|
| Operation problem | 1 | 92 | 1 |
| Unscheduled downtime | 0 | 92 | 0 |
| Scheduled | 0 | 92 | 0 |
| Total downtime | 1 | 92 | 1 |

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

| Shut Down | Restarted | Reason | Description |
|---|---|---|---|
| 1/5/2011 | 1/6/2011 | Operational | Switched SVE blower due to a broken mechanical seal |

#### *2.3.1.2 Area 1795 - System B Operation*

Area 1795 System B **(Figure 2-3)** runs extraction Legs 2, 3, and 4. On 1 December 2009, an oil leak was discovered in the SVE blower and subsequently repaired. Legs 3 and 4, located within the center of the contaminant plume, were subsequently tied in to 1795 System A so that this area would continue to be treated. High efficiency and effectiveness from the utilization of a single extraction blower for "hot-spot" treatment have resulted in the continued deactivation of System B extraction blower.

#### 2.3.1.3 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.

### 2.3.2 Aquifer Air Sparge System

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

#### *2.3.2.1 Area 1795 - System A Operation*

Area 1795 System A AAS system operated for 92 days between 1 November 2010 and 31 January 2011 derived from the system's operation hour meter. Based on the 92 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 |
|---|---|---|---|
| Operation problem | 0 | 92 | 0 |
| Unscheduled downtime | 0 | 92 | 0 |
| Scheduled | 0 | 92 | 0 |
| Total downtime | 0 | 92 | 0 |

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

| Shut Down | Restarted | Reason | Description |
|---|---|---|---|
| N/A | N/A | N/A | N/A |

#### *2.3.2.2 Area 1795 - System B Operation*

Area 1795 System B AAS system operated for 92 days between 1 November 2010 and 31 January 2011 derived from the system's operation hour meter. Based on the 92 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 |
|---|---|---|---|
| Operation problem | 0 | 92 | 0 |
| Unscheduled downtime | 0 | 92 | 0 |
| Scheduled | 0 | 92 | 0 |
| Total downtime | 0 | 92 | 0 |

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

| Shut Down | Restarted | Reason | Description |
|---|---|---|---|
| N/A | N/A | N/A | N/A |

#### *2.3.2.3 Area 1795 - System C Operation*

Area 1795 System C (**Figure 2-4**) runs Lines 7, 8 and 9. The AAS treatment system operated for 92 days between 1 November 2010 and 31 January 2011 derived from the system's operation hour meter. Based on the 92 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 |
|---|---|---|---|
| Operation problem | 0 | 92 | 0 |
| Unscheduled downtime | 0 | 92 | 0 |
| Scheduled | 0 | 92 | 0 |
| Total downtime | 0 | 92 | 0 |

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

| Shut Down | Restarted | Reason | Description |
|---|---|---|---|
| N/A | N/A | N/A | N/A |

#### *2.3.2.4 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.

## 2.4 Areas 3805 And 1995

Daily O&M site visits were conducted during the monitoring 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, and vacuum pump belt adjustments.

### 2.4.1 Multi-Phase Extraction Systems

#### *2.4.1.1 Area 3805 - System A*

Area 3805 System A (**Figure 2-5**) primarily runs Lines 3, 4, and 5. The MPE treatment system did not operate between 1 November 2010 and 31 January 2011. The system operated from 15 April 2008 until it was deactivated following the system evaluation and optimization activities conducted in April 2009. The SVE portions of System 3805 A will remain off until monthly gauging indicates that the groundwater table has dropped sufficiently to expose five feet of well screen, to allow for effective removal of hydrocarbon vapors.

### *2.4.1.2 Area 3805 - System B*

Area 3805 System B (**Figure 2-6**) primarily runs Lines 6, 7, 8, 9, 10 and 11. Lines 10 and 11 were turned on in July 2008, but turned off again when it was determined that they were believed to be damaged and subsequently pulling too much water into the system. Although monthly gauging activities have not indicated that the groundwater table had dropped sufficiently to allow for effective removal of hydrocarbon vapors, the system remained in operation, since 15 April 2008, to address the persistent LNAPL detected in areas of the site. LNAPL detections have since decreased to the point where the system was deactivated on 29 July 2010. The system will remain off until monthly gauging indicates that the groundwater table has dropped sufficiently to expose five feet of well screen, to allow for effective removal of hydrocarbon vapors.

### *2.4.1.3 Area 3805 - System C*

Area 3805 System C (**Figure 2-7**) runs Lines 1 and 2. The MPE treatment system operated for 28 days between 1 November 2010 and 31 January 2011 derived from the system's operation hour meter. Based on the 42 days of potential operating time (excludes scheduled downtime), the system achieved 67 percent uptime during this monitoring period. System downtime is summarized in the following table:

| Reason | Days Down | Total Days | Percentage |
|---|---|---|---|
| Operation problem | 14 | 92 | 15 |
| Unscheduled downtime | 0 | 92 | 0 |
| Scheduled | 50 | 92 | 54 |
| Total downtime | 64 | 92 | 69 |

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

| Shut Down | Restarted | Reason | Description |
|---|---|---|---|
| 11/1/2010 | 12/20/2010 | Scheduled | PCE investigation |
| 12/20/2010 | 12/29/2010 | Operational | Broken heater |
| 1/26/2011 | 1/31/2011 | Operational | Broken transfer pump |

### *2.4.1.4 Area 1995 - System D*

Area 1995 System D (**Figure 2-8**) is comprised of Lines 12 and 13. The SVE system was deactivated on 6 August 2008 due to an internal leak in the SVE blower.

### *2.4.1.5 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.

### 2.4.2 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.

#### *2.4.2.1 Area 3805 - System A*

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. 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.

#### *2.4.2.2 Area 3805 - System B*

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. 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 42 days between 1 November 2010 and 31 January 2011 derived from the system's operation hour meter. Based on the 42 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 |
|---|---|---|---|
| Operation problem | 0 | 92 | 0 |
| Unscheduled downtime | 0 | 92 | 0 |
| Scheduled | 50 | 92 | 54 |
| Total downtime | 50 | 92 | 54 |

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

| Shut Down | Restarted | Reason | Description |
|---|---|---|---|
| 11/1/2010 | 12/20/2010 | Scheduled | PCE Investigation |

#### *2.4.2.3 Area 3805 - System C*

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. The AAS treatment system operated for 36 days between 1 November 2010 and 31 January 2011 derived from the system's operation hour meter. Based on the 42 days of potential operating time (excludes scheduled downtime), the system achieved 86 percent uptime during this monitoring period. System downtime is summarized in the following table:

| Reason | Days Down | Total Days | Percentage |
|---|---|---|---|
| Operation problem | 6 | 92 | 7 |
| Unscheduled downtime | 0 | 92 | 0 |
| Scheduled | 50 | 92 | 54 |
| Total downtime | 56 | 92 | 61 |

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

| Shut Down | Restarted | Reason | Description |
|---|---|---|---|
| 11/1/2010 | 12/20/2010 | Scheduled | PCE investigation |
| 12/21/2010 | 12/27/2010 | Operational | Broken heater |

#### *2.4.2.4 Area 1995 - System D*

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. The AAS treatment system operated for 42 days between 1 November 2010 and 31 January 2011 derived from the system's operation hour meter. Based on the 42 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 |
|---|---|---|---|
| Operation problem | 0 | 92 | 0 |
| Unscheduled downtime | 0 | 92 | 0 |
| Scheduled | 50 | 92 | 54 |
| Total downtime | 50 | 92 | 54 |

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

| Shut Down | Restarted | Reason | Description |
|---|---|---|---|
| 11/1/2010 | 12/20/2010 | Scheduled | PCE Investigation |

#### *2.4.2.5 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.

## 2.5 Army Air Force Exchange Service Station

### 2.5.1 Dual-Phase Extraction System

Daily O&M site visits were conducted throughout the period to monitor treatment system performance, collect operational data, and make necessary adjustments to the treatment system to optimize system performance.

#### *2.5.1.1 System Operation*

Due to a mechanical problem with the air compressor in the ozone trailer, the AAFES Station (Building P-2140) DPE system (**Figure 2-9**) operated for 9 days between 1 November 2010 and 31 January 2011 derived from the system's operation hour meter. Based on the 9 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 |
|---|---|---|---|
| Operation problem | 0 | 92 | 0 |
| Unscheduled downtime | 0 | 92 | 0 |
| Scheduled | 83 | 92 | 90 |
| Total downtime | 83 | 90 | 90 |

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

| Shut Down | Restarted | Reason | Description |
|---|---|---|---|
| 11/1/2010 | 11/22/2010 | Scheduled | Ozone injection system active |
| 12/1/2010 | 1/31/2011 | Scheduled | Ozone injection system active |

#### *2.5.1.2 Performance Monitoring*

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

Extraction pressure and flow rates at the DPE system and well heads were recorded during the weekly site visits. If the flow rate required adjustment, the new flow rate was recorded. The extraction airflow rate, after the vacuum pump, was monitored weekly from a pitot tube installed on the extraction line. In addition, volatile organic compound (VOC) concentrations were monitored and recorded weekly.

### 2.5.2 Aquifer Air Sparging System

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

#### *2.5.2.1 System Operation*

Due to a mechanical problem with the air compressor in the ozone trailer, the AAFES Station (Building P-2140) AAS treatment system operated for 9 days between 1 November 2010 and 31 January 2011 derived from the system's operation hour meter.

Based on the 9 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 |
|---|---|---|---|
| Operation problem | 0 | 92 | 0 |
| Unscheduled downtime | 0 | 92 | 0 |
| Scheduled | 83 | 92 | 90 |
| Total downtime | 83 | 91 | 90 |

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

| Shut Down | Restarted | Reason | Description |
|---|---|---|---|
| 11/1/2010 | 11/22/2010 | Scheduled | Ozone injection system active |
| 12/2/2010 | 1/31/2011 | Scheduled | Ozone injection system active |

#### *2.5.2.2 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.

### 2.5.3 Aquifer Air Sparging with Ozone System

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

The AAS with ozone system was subsequently modified into a mobile treatment unit. In July 2009, with NYSDEC concurrence and approval, Plexus initiated a hot-spot treatment pilot test at Areas 1395 and 1495. Groundwater monitoring will be continued on a semi-annual basis at Areas 1395 and 1495 to evaluate the remedial strategy and develop operating parameters for potential hot-spot application at other areas along Gasoline Alley.

## 2.5.4 Ozone System

### *2.5.4.1 System Operation*

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

The AAFES Station (Building P-2140) ozone Injection System operated for 83 days between 1 November 2010 and 31 January 2011 derived from the system's operation hour meter. Based on the 92 days of potential operating time (excludes scheduled downtime), the system achieved 90 percent uptime during this monitoring period. System downtime is summarized in the following table:

| Reason | Days Down | Total Days | Percentage |
|---|---|---|---|
| Operation problem | 9 | 92 | 10 |
| Unscheduled downtime | 0 | 92 | 0 |
| Scheduled | 0 | 92 | 0 |
| Total downtime | 9 | 92 | 10 |

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

| Shut Down | Restarted | Reason | Description |
|---|---|---|---|
| 11/22/2010 | 12/1/2010 | Operational | Broken air compressor |

### *2.5.4.2 Performance Monitoring*

Daily performance monitoring and O&M activities were conducted at the AAFES Station (Building P-2140) while the ozone system was active at the site. 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, weekly PID, ORP, conductivity, temperature and potential hydrogen (pH) readings were collected from select wells beginning in January 2009, to help analyze system effectiveness.

# 3.0 RESULTS

## 3.1 Area 1295

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

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 will implement a monitoring program at 1295-MW30 beginning in March 2011 to capture the monthly information. Although, based on the fluctuating results of the aforementioned parameters obtained from the monitoring wells at Areas 1395, 1495, and 1595, Plexus assumed that delivery of ozone was oxidizing contaminants and providing additional oxygen to augment biodegradation. Groundwater analytical results from samples collected during the Fall 2010 Sampling Event in October 2010, indicate a total BTEX concentration of 3,820.3 micrograms per liter (ug/l) which is a reduction of dissolved contaminants by approximately 66 percent of 10,981 ug/l from the previous year. The analytical data, presented in the 2010 Draft Annual Basewide Monitoring Report, dated March 2011, also represents the results immediately following the initial three months of ozone treatment, which continued for an additional two months as noted.

## 3.2 Area 1595

### 3.2.1 Light Non-Aqueous Phase Liquids

In general, the water table decreased approximately 1.4 feet during the monitoring period. LNAPL were observed in monitoring well 1595-MWS8 during the weekly O&M visits at thicknesses ranging from 0.04 ft (19 January 2011) to 0.73 ft (16 December 2010) (**Appendix A, Table A-2**). LNAPL were not observed in any of the extraction wells during the monthly gauging events (**Appendix B**, **Table B-1**). If LNAPL are encountered during site visits, removal is conducted by bailer or the extraction system.

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

The combined extraction flow rate (including dilution air) and vacuum pump discharge concentrations could not be calculated due to the system being shutdown during this monitoring period. LNAPL recharge test results combined with the low hydrocarbon vapor recovery, as indicated in the daily system effluent vapor records, support the continued deactivation of the SVE portion of System 1595 (**Appendix B, Table B-2**). The trends in vacuum pump discharge concentration and cumulative contaminant recovery for the system are represented in **Figure 3-1**. Approximately 0.323 gallons of LNAPL were recovered during the monitoring period.

### 3.2.3 Groundwater Treatment

A total of 0 gallons of groundwater was extracted through the SVE wells during the monitoring period (**Table 3-2**). The extracted groundwater has been historically treated by the air stripper system and discharged to the publicly-owned treatment works (POTW).

### 3.2.4 System Effectiveness Monitoring

In an effort to further analyze system effectiveness, select wells were chosen for monthly monitoring of DO, ORP and PID readings. In addition, temperature, conductivity and pH readings were collected. Results illustrate a fluctuation in values from monitoring event to monitoring event indicating both a delivery of oxygen and an active microbial mass consuming oxygen. A summary of the data is presented in **Table 3-3**. A summary of the nutrient application data collected from wells in extraction Legs 1 through 6 is presented in **Table 3-4**. The nutrient application began in January 2011 in which a mixture of nitrogen-phosphorous-potassium is introduced into the subsurface via the AAS injection points to enhance bacterial growth and stimulate biodegradation.

The Fall 2010 Groundwater Sampling Event results, presented in the 2010 Draft Annual Basewide Monitoring Report, dated March 2011, indicate a contaminant reduction within the plume on average approximately 40 percent. For example, 1595-PZ12 yielded a total BTEX concentration of 453.6 ug/l compared to the Fall 2009 results of 632 ug/l. Additionally, the areal limits of the plume have decreased to being contained within the northernmost treatment leg, Leg 1 corresponding to results from monitoring well, MWS7 at a total BTEX concentration of 0.4 ug/l versus the previous year of 47.89 ug/l.

### 3.2.5 Ozone Treatment

Ozone treatment of residual hydrocarbon impact within the subsurface at Area 1595 began on 22 December 2009 and continued through 22 February 2010 in the area of monitoring point, PZ9. 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) and adjusted daily to maintain those parameters. Post remedial monitoring included weekly collection of PID, ORP, conductivity, temperature and pH readings from select wells to help analyze ozone system effectiveness. 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. Post remedial monitoring was discontinued at the end of June 2010. The latest groundwater data indicated elevated concentrations of total BTEX at 598.04 ug/l. This is due primarily to an increase in the total xylenes from the Spring 2009 results of 444.7 ug/l. As indicated, the ozone treatment system operated for approximately 2 months on site. Analytical results from groundwater samples collected at PZ9 following the ozone application indicated little effect on the dissolved concentrations. However, combining operational data from the Area 1595 application and data from the applications at Areas 1295, 1395, and 1495, the ozone treatment is more effective if injection duration exceeds 3 months.

## *3.3 Area 1795*

### 3.3.1 Light Non-Aqueous Phase Liquids

In general, the water table decreased approximately 0.11 feet during the monitoring period. LNAPL were observed at measurable thicknesses during the monitoring period, primarily at 5-4M (**Appendix C**, **Table C-1**). The total LNAPL recovered for the quarter was approximately 0.131 gallons. If LNAPL are encountered during site visits, it is removed by bailer or the extraction system.

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

#### *3.3.2.1 Area 1795 - System A*

Combined extraction flow rates (including dilution air) and vacuum pump discharge concentrations averaged 429.8 cubic feet per minute (cfm) and 118.9 parts per million (ppm), respectively, during the monitoring period (**Appendix C, Table C-2**). These concentrations equate to the removal of 107.79 gallons of gasoline equivalent from the vapor phase during the monitoring period (**Table 3-5**). The trends in vacuum pump discharge concentration and cumulative contaminant recovery for System A are represented in **Figure 3-2A**. Approximately 0.131 gallons of LNAPL were recovered during the monitoring period. Starting on 1 December 2009, legs 3 and 4 from 1795 System B were tied into 1795 System A.

#### *3.3.2.2 Area 1795 - System B*

The combined extraction flow rate (including dilution air) and vacuum pump discharge concentrations could not be calculated due to the system being shutdown on 1 December 2009, following the discovery of an oil leak in the SVE blower which was subsequently repaired. In order to continue treating the contamination plume, legs 3 and 4 were subsequently tied into 1795 System A (**Appendix C, Table C-3**). As a result, there were no gallons of gasoline equivalent removed from the vapor phase this quarter (**Table 3-5**). The trends in vacuum pump discharge concentration and cumulative contaminant recovery for System B are represented in **Figure 3-2B**. No LNAPL were recovered during the monitoring period.

#### *3.3.2.3 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**).

### 3.3.3 Groundwater Treatment

#### *3.3.3.1 Area 1795 - System A*

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

#### *3.3.3.2 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.

### 3.3.4 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**.

The Fall 2010 Groundwater Sampling Event results, presented in the 2010 Draft Annual Basewide Monitoring Report, dated March 2011, indicate a total BTEX contaminant reduction at the "hot-spot" monitoring well, MWS7, form 25,785.6 ug/l in Fall 2008 to the most recent concentration of 6,303 ug/l. These results are indicative of an approximate contaminant reduction of 75 percent since system activation. Additionally, 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.

## 3.4 Areas 3805 and 1995

### 3.4.1 Light Non-Aqueous Phase Liquids

In general, the water table decreased approximately 0.13 feet during the monitoring period. LNAPL were observed at measurable thicknesses during the monitoring period, primarily at extraction well 3805-9-1M, and piezometers 3805-PZ-10-2 and 3805-PZ-17 (**Appendix A**, **Table A-2** and **Appendix D**, **Table D-1**). The total LNAPL recovered for the quarter was approximately 0.636 gallons. If LNAPL are encountered during gauging events, it is removed by bailer or the extraction system.

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

#### *3.4.2.1 Area 3805 - System A*

During the reporting period, the extraction system was activated solely to process extracted groundwater collected during an intrusive investigation at the site. Although the system operated, it was not as a function of extracting vapors and groundwater to address the petroleum release as designed. Therefore, the combined extraction flow rate (including dilution air) could not be calculated due to the system being shutdown following the evaluation and optimization activities conducted in April 2009. The SVE portions of System A will remain off until monthly gauging indicates that the groundwater table has dropped sufficiently to expose five feet of well screen, to allow for effective removal of hydrocarbon vapors (**Appendix D, Table D-2**). 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 A are represented in **Figure 3-3A**.

#### *3.4.2.2 Area 3805 - System B*

The combined extraction flow rate (including dilution air) could not be calculated due to the system being shutdown following the evaluation and optimization activities conducted in July 2010. The SVE portions of System B will remain off until monthly gauging indicates that the groundwater table has dropped sufficiently to expose five feet of well screen, to allow for effective removal of hydrocarbon vapors (**Appendix D, Table D-3**). 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 B are represented in **Figure 3-3B**.

#### *3.4.2.3 Area 3805 - System C*

Combined extraction flow rates (including dilution air) and vacuum pump discharge concentrations averaged 119.90 cfm and 0.8 ppm, respectively, during the monitoring period (**Appendix D, Table D-4**). These concentrations equate to the removal of 0.19 gallons of gasoline equivalent from the vapor phase during the monitoring period (**Table 3-8**). The trends in vacuum pump discharge concentration and cumulative contaminant recovery for System C are represented in **Figure 3-3C**.

#### *3.4.2.4 Area 1995 - System D*

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

### 3.4.3 Groundwater Treatment

#### *3.4.3.1 Area 3805 - System A*

Approximately 8,423 gallons of groundwater extracted during an intrusive investigation at the site was processed through System A during the monitoring period (**Table 3-9**). The extracted groundwater was treated by the air stripper system and discharged to the POTW.

#### *3.4.3.2 Area 3805 - System B*

The extraction unit on System B 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.

#### *3.4.3.3 Area 3805 - System C*

A total of 4,403 gallons of groundwater were extracted through System C at an average flow rate of 0.11 gallons per minute (gpm) during the monitoring period (**Table 3-9**). The extracted groundwater was treated by the air stripper system and discharged to the POTW.

#### *3.4.3.4 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.

### 3.4.4 System Effectiveness Monitoring

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

Although the Fall 2010 Groundwater Sampling Event results, presented in the 2010 Draft Annual Basewide Monitoring Report, dated March 2011, indicate a total BTEX contaminant reduction in several monitoring locations within the area (i.e., MWS8 from 1,205.2 ug/l to 982.5 ug/l, MWS11 from 12,789 ug/l to 1,991.5 ug/l, PZ13S from 7,698 ug/l to 2,215 ug/l and PZ14 from 33,870 ug/l to 29,700 ug/l), increases on the northwestern portion of the treatment area have been identified (monitoring wells 016 from 2,613.7 ug/l to 15,180 ug/l and MWI9 form 584.7 ug/l to 3,062 ug/l). Indicating a need to reevaluate the current system configuration and propose an alternative strategy.

## 3.5 Army Air Force Exchange Service Station

### 3.5.1 Dual-Phase Extraction System

#### *3.5.1.1 Light Non-Aqueous Phase Liquids*

In general, the water table decreased approximately 0.2 feet during the monitoring period LNAPL was not observed in any of the extraction wells during the monitoring period (**Appendix E**, **Table E-1**). If LNAPL are encountered during gauging events, it is removed by bailer or the extraction system.

#### *3.5.1.2 Soil Vapor Extraction*

Combined extraction flow rates (including dilution air) and vacuum pump discharge concentrations averaged 460.0 cfm and 0.7 ppm, respectively, during the monitoring period (**Appendix E, Table E-2**). These concentrations equate to the removal of 0.07 gallons of gasoline equivalent from the vapor phase during the monitoring period (**Table 3-11**). The trends in vacuum pump discharge concentration and cumulative contaminant recovery for the system are represented in **Figure 3-4**.

#### *3.5.1.3 Groundwater Treatment*

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

#### *3.5.1.4 System Effectiveness Monitoring*

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

### 3.5.2 Ozone Treatment

Ozone treatment of residual hydrocarbon impact within the subsurface at the AAFES Station (Building P-2140) was conducted through the majority of the reporting period. When the system went off-line due to air compressor fault (19 November to 1 December 2010), the existing DPE/AAS system was activated. The ozone injection system cycled through 4 zones at 20 minutes per zone, injecting ozone to one or two injection wells at a pressure of approximately 36 psi and a gas flow of approximately 3.4 scfm (**Appendix E**, **Table E-3**).

The Fall 2010 Groundwater Sampling Event results, presented in the 2010 Draft Annual Basewide Monitoring Report, dated March 2011, indicate a total BTEX contaminant reduction in several monitoring locations within the area. Review of the historical data from monitoring well, MW07 and MW02 indicated a one year contaminant reduction of 70 percent (from 28,254 ug/l to 8,009.8 ug/l) and 50 percent (4,809.3 ug/l to 2,446.4 ug/l), respectively. In addition to the reduction in total plume concentrations, the areal extent of the main plume has reduced to within the Reservation boundaries.

# 4.0 SUMMARY AND DISCUSSION

System operation and performance monitoring activities were completed at each site by Plexus during the reporting period (November 2010-January 2011). A list of the additional actions performed during site visits, beyond routine data collection, is presented in **Appendix F**. Prior to 7 May 2008, these activities were being performed by others. The majority of these items included maintenance and repairs to the systems to address changing weather and subsurface conditions.

## 4.1 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. Based on the positive response to treatment, the system is scheduled to be reactivated in April 2011.

## 4.2 Area 1595

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

No LNAPL were observed in the extraction wells during gauging events, but persistent LNAPL were reported in 1595-MWS-8. Approximately 0.323 gallons of LNAPL were recovered during the monitoring period. When LNAPL were encountered, removal was conducted by bailer or the extraction system.

The SVE system was deactivated on 13 April 2010 to determine if there was LNAPL recharge post ozone treatment and determine if a vapor recovery surge or rebound would occur during the system on/off cycle. System data collected from daily monitoring following scheduled sampling events has indicated that the volatility of the remaining contaminants is low and subsequent groundwater data has indicated that the LNAPL encountered has dot 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. As a result, a nutrient application of a mixture of nitrogen-phosphorus-potassium has been approved and initiated beginning January 2011 through March 2011. Concurrent with the nutrient application, the AAS will continue to operate to provide an oxygen source to enhance bioremediation.

## 4.3 Area 1795

SVE System A operated 99 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 100, 100, and 100 percent of the time during the monitoring period. Although the systems came online in January 2008, it was in a start-up/shake-out period until Plexus took the system over in July 2008.

A combined total of approximately 107.79 gallons of gasoline equivalent (vapor phase) were recovered from the subsurface from November through January 2011. A total of 1,121.39 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. Approximately 0.131 gallons of LNAPL were removed from the subsurface during this monitoring period.

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

## 4.4 Areas 3805 and 1995

SVE System C operated at 67 percent of the time during the monitoring period, excluding scheduled downtime. AAS Systems B, C, and D operated 100, 86, and 100 percent of the time during the monitoring period. Due to the elevated water table conditions observed during system evaluation activities (all SVE well screens were flooded), the Soil Vapor Extraction portion of System A is to remain off with NYSDEC concurrence. Groundwater elevation gauging is being conducted to determine when the system can be turned back on. The SVE portion of System B was deactivated in July 2010 as the result of insufficient screen exposure for the effective recovery of hydrocarbons. Due to a bad bearing in the sparge blower, the AAS portion of System A was shut down on 18 June 2009. The sparge blower was repaired and based on the excess capacity of the blowers for Systems A and B, the System B blower continues to be connected to all the sparge points and operating within the design specifications while reducing the energy consumption requirements.

A combined total of approximately 0.19 gallons of gasoline equivalent (vapor phase) were recovered from the subsurface from November 2010 through January 2011. A total of 5,661gallons of gas equivalent (vapor phase) and 24 gallons of LNAPL have been removed from the subsurface since operation of the SVE and AAS systems began in October 2003. Approximately 0.636 gallons of LNAPL were recovered during the monitoring period. When LNAPL were encountered, removal was conducted by bailer or the extraction system.

As a result of extraction well screen saturation, Plexus is implementing operational parameters to reduce artificial mounding created by the remedial system, decrease groundwater recovery, and increase vapor recovery. In an effort to remove the persistent LNAPL reported in the area of leg 9, Plexus prepared and submitted a Surfactant Enhanced Aquifer Remediation (SEAR) pilot Test Work Plan, dated September 2010. Following receipt of regulatory approvals, Plexus intends to initiate the plans for the SEAR application. In conjunction with the change in system operational parameters, and prior to the Fall 2011 Basewide Groundwater Sampling Event, Plexus is preparing an Extraction Well Modification Work Plan with the intent to modify selected vertical extraction wells into horizontal extraction wells to facilitate activation of the extraction units and remove organic vapors generated from the in-situ air stripping of the AAS system. Additionally, Plexus intends to develop a pilot test to augment the current remedial system with ozone ISCO which has proven successful at other areas along Gasoline Alley. The pilot test will utilize some of the existing infrastructure of the current MPE/AAS treatment system and will target “hot-spot” locations based on the most recent analytical data.

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

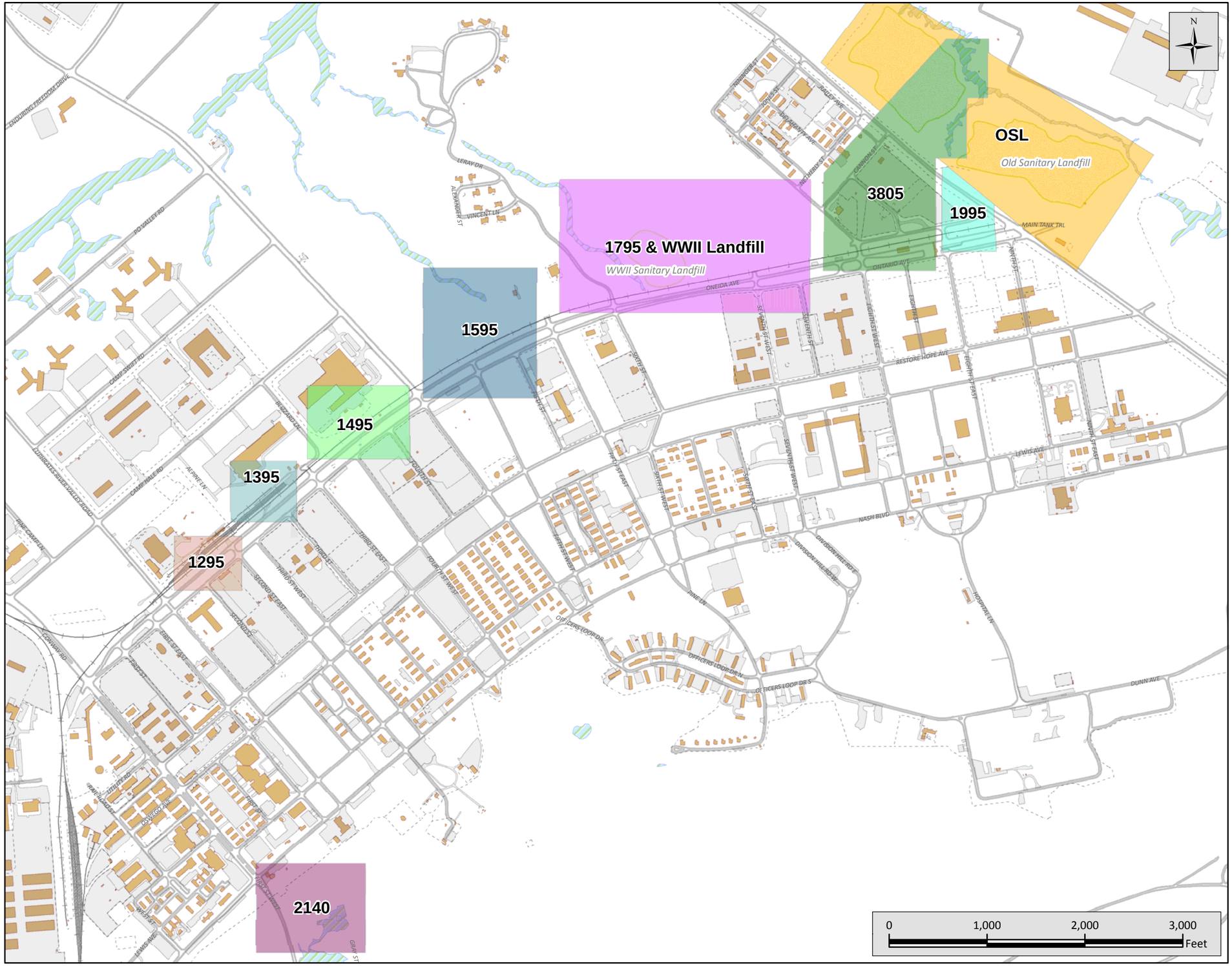
## 4.5 Army Air Force Exchange Service Station

The DPE System operated 100 percent of the time during the monitoring period, excluding scheduled downtime. The AAS Systems operated 100 percent of the time during the monitoring period. A combined total of approximately 0.07 gallons of gasoline equivalent (vapor phase) were recovered from the subsurface from November 2010 through January 2011. A total of 2,400.4 gallons of gas equivalent (vapor phase) have been removed from the subsurface since operation of the DPE system began in February 2002. No LNAPL were observed in the extraction wells during gauging events.

The ozone treatment unit operated 90 percent of the time during the reporting period. 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 th augment biodegradation. Plexus intends to continue operations on the ozone unit at the site.

# FIGURES




## Legend

**Site Name**

- 1295
- 1395
- 1495
- 1595
- 1795 & WWII Landfill
- 1995
- 2140
- 3805
- OSL
- Fence Line
- Rail Road
- Paved Road
- Landfill Site
- Wetlands
- Building
- Paved Area


PLEXUS Scientific

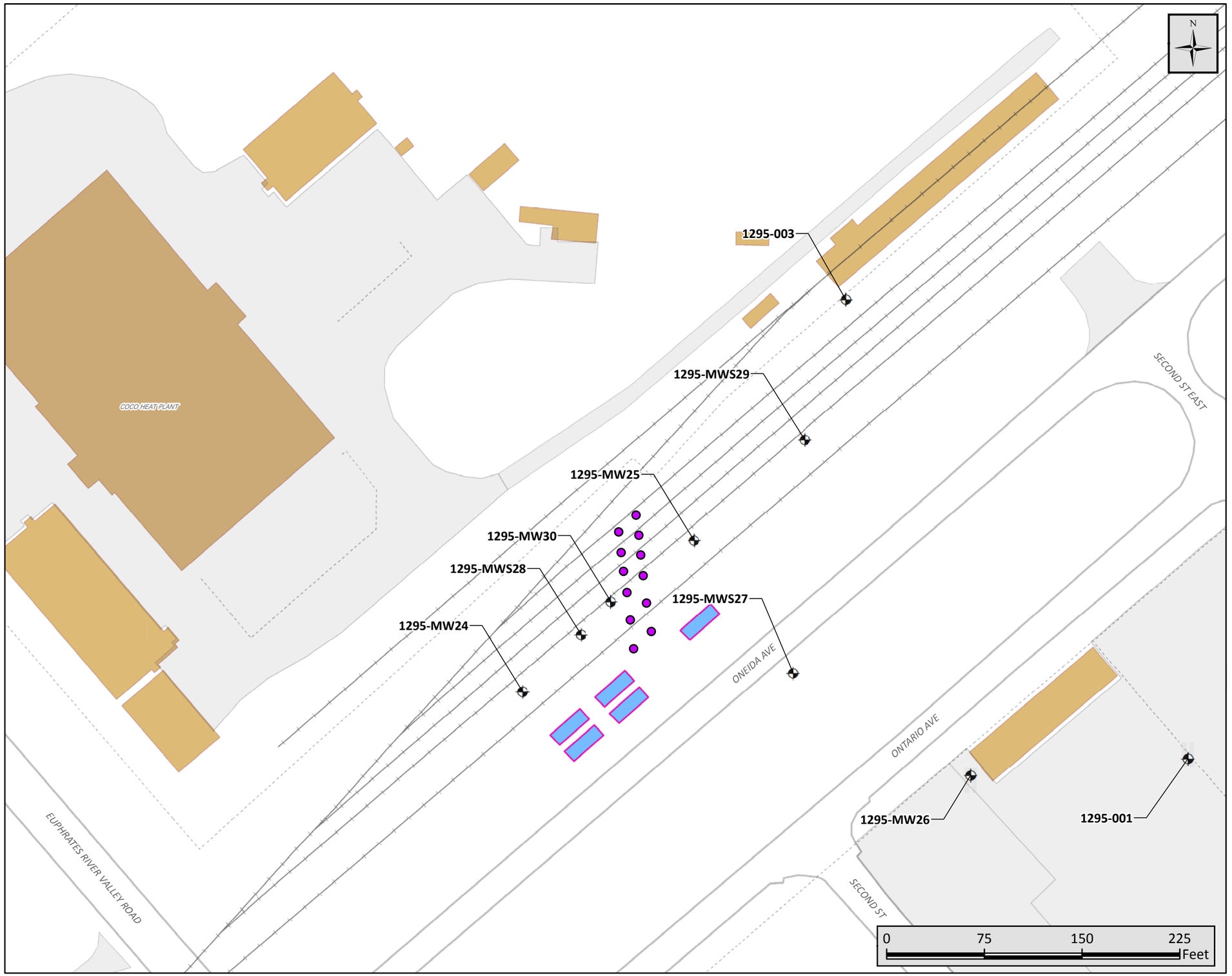
4501 Ford Ave.
Suite 1200
Alexandria, VA 22302
(P) 703.820.3339
(F) 703.845.8568


Created By: JRC
Date: March 2011

**FIGURE 1-1**

## Site Location Map

**Quarterly Report of Progress (November2010-January 2011)**
**Operations and Maintenance**
**Remediation Systems for Gasoline Alley and Army Air Force Exchange Service Station**
**Fort Drum, New York**




## Legend

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

Abbreviation Key:
UST = Underground Storage Tank

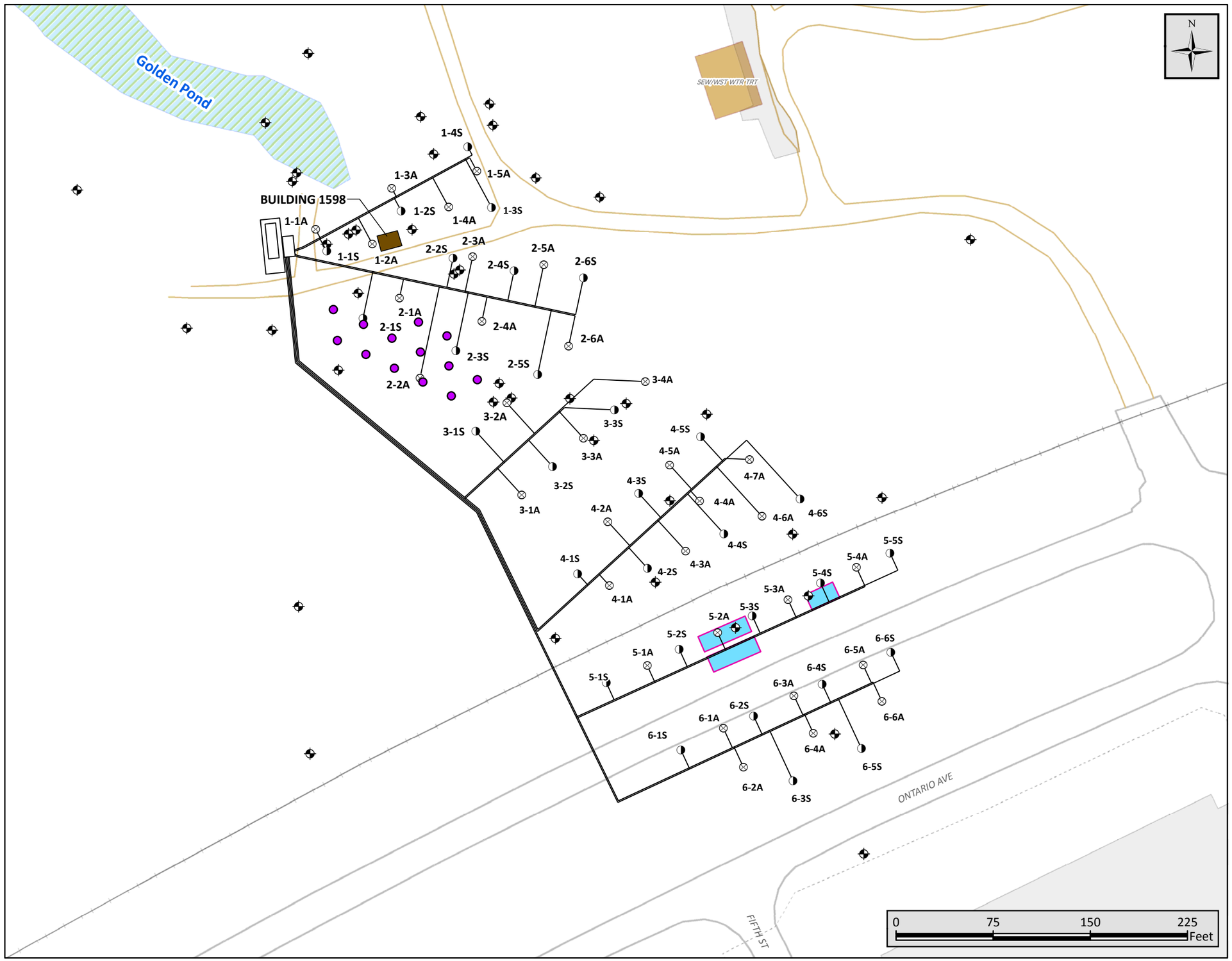
PLEXUS scientific
4501 Ford Ave.
Suite 1200
Alexandria, VA 22302
(P) 703.820.3339
(F) 703.845.8568

Created By: JRC
Date: March 2011

**FIGURE 2-1**

**Area 1295, Gasoline Alley**

**Quarterly Report of Progress (November2010-January 2011)
Operations and Maintenance
Remediation Systems for Gasoline Alley and Army Air Force Exchange Service Station
Fort Drum, New York**




## Legend

- Ozone Injection Points
- Air Sparge Wells
- Soil-Vapor Extraction Wells
- System Pipes
- Monitoring Wells
- Former UST
- 1595 System Shed
- Fence Line
- Rail Road
- Unpaved Road
- Paved Road
- Wetlands
- Building
- Paving

Abbreviation Key:
UST = Underground Storage Tank

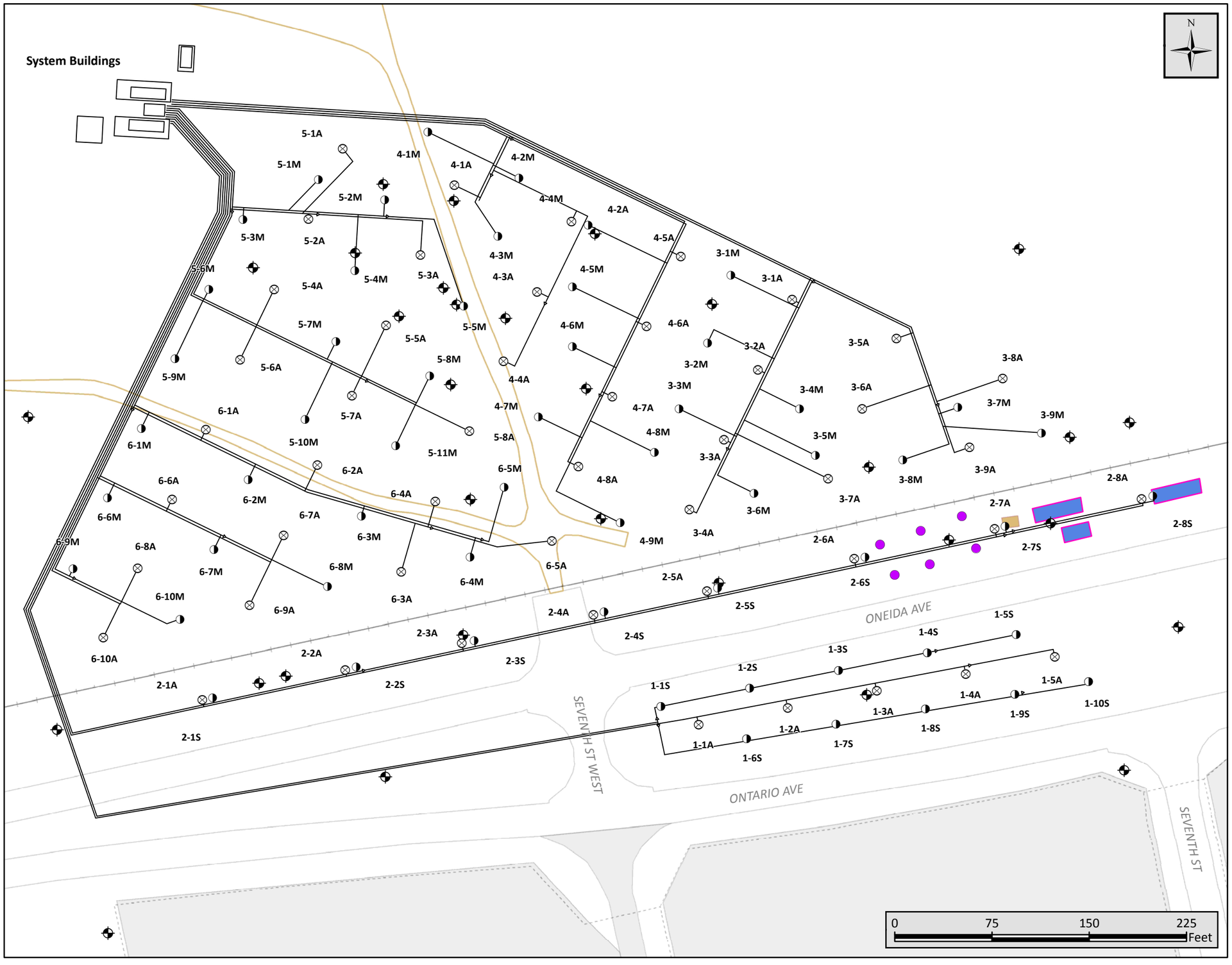

PLEXUS scientific
4501 Ford Ave.
Suite 1200
Alexandria, VA 22302
(P) 703.820.3339
(F) 703.845.8568


Created By: JRC
Date: March 2011

**FIGURE 2-2**

**Area 1595**

**Quarterly Report of Progress (November2010-January 2011)
Operations and Maintenance
Remediation Systems for Gasoline Alley and Army Air Force Exchange Service Station
Fort Drum, New York**




## Legend

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

Abbreviation Key:
UST = Underground Storage Tank

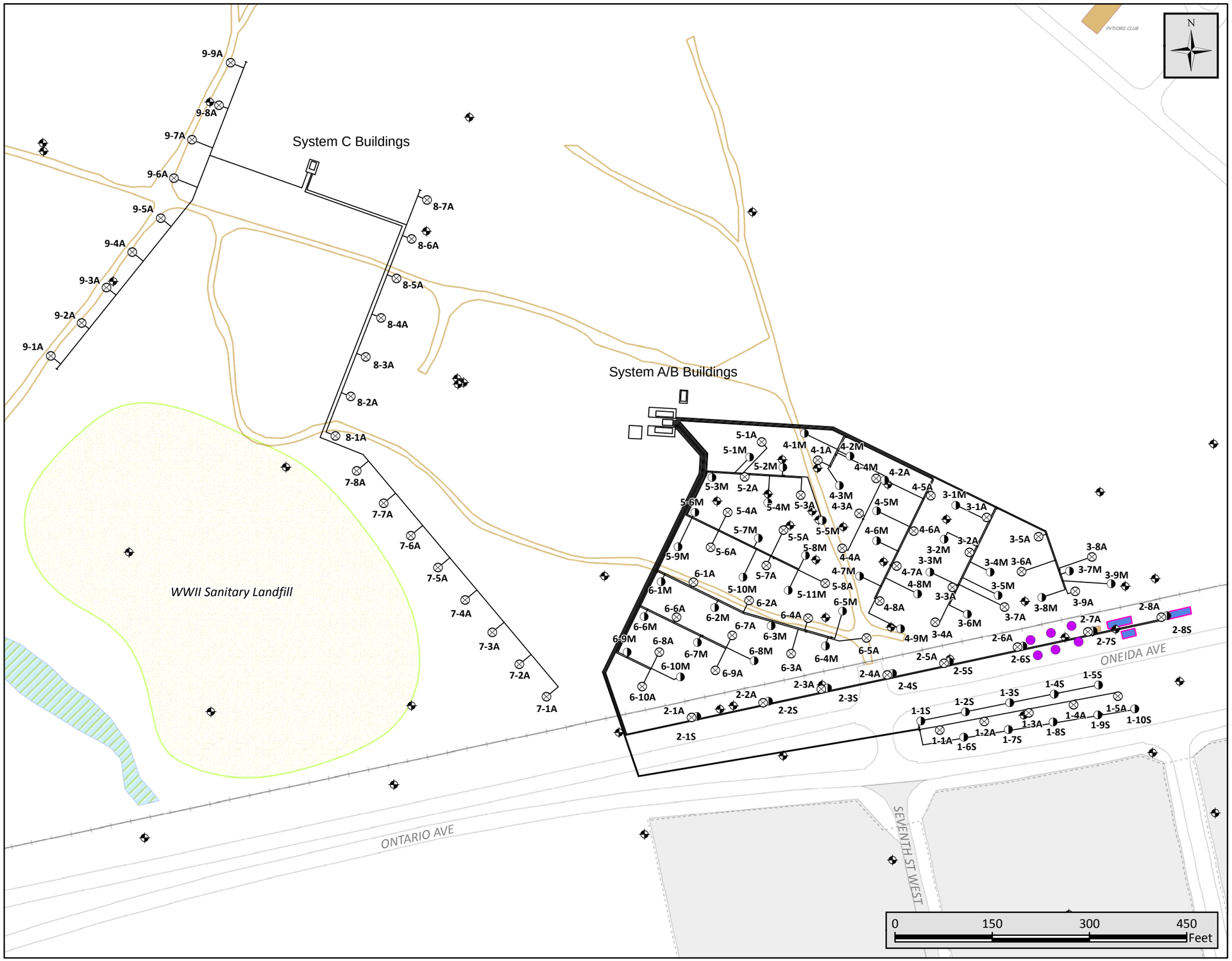

PLEXUS scientific
4501 Ford Ave.
Suite 1200
Alexandria, VA 22302
(P) 703.820.3339
(F) 703.845.8568


Created By: JRC
Date: March 2011

**FIGURE 2-3**

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

Quarterly Report of Progress (November2010-January 2011)
Operations and Maintenance
Remediation Systems for Gasoline Alley and Army Air Force Exchange Service Station
Fort Drum, New York




## Legend

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

Abbreviation Key:
UST = Underground Storage Tank

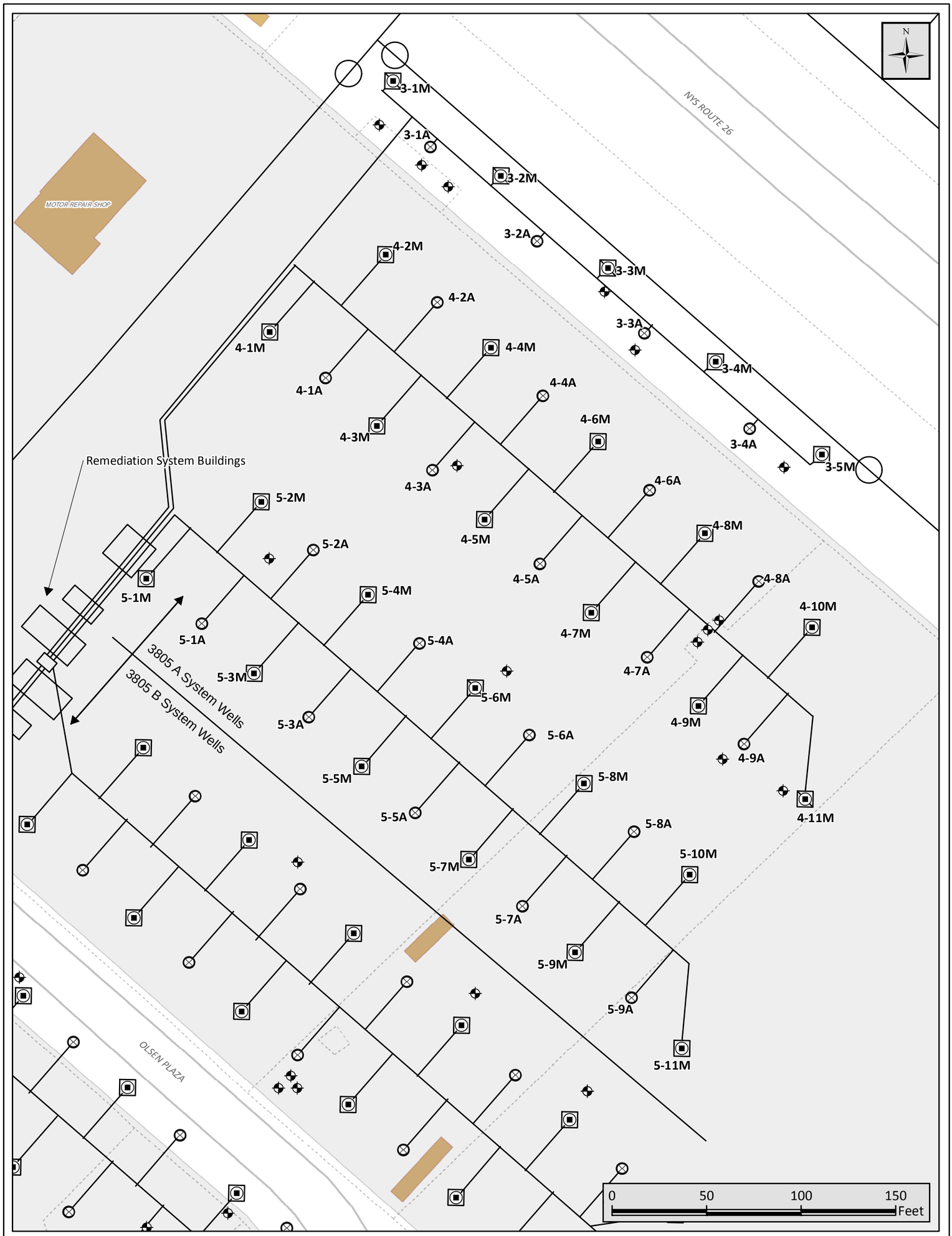

PLEXUS scientific
4501 Ford Ave.
Suite 1200
Alexandria, VA 22302
(P) 703.820.3339
(F) 703.845.8568


Created By: JRC
Date: March 2011

**FIGURE 2-4**

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

**Quarterly Report of Progress (November2010-January 2011)**
**Operations and Maintenance**
**Remediation Systems for Gasoline Alley and Army Air Force Exchange Service Station**
**Fort Drum, New York**




## Legend

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

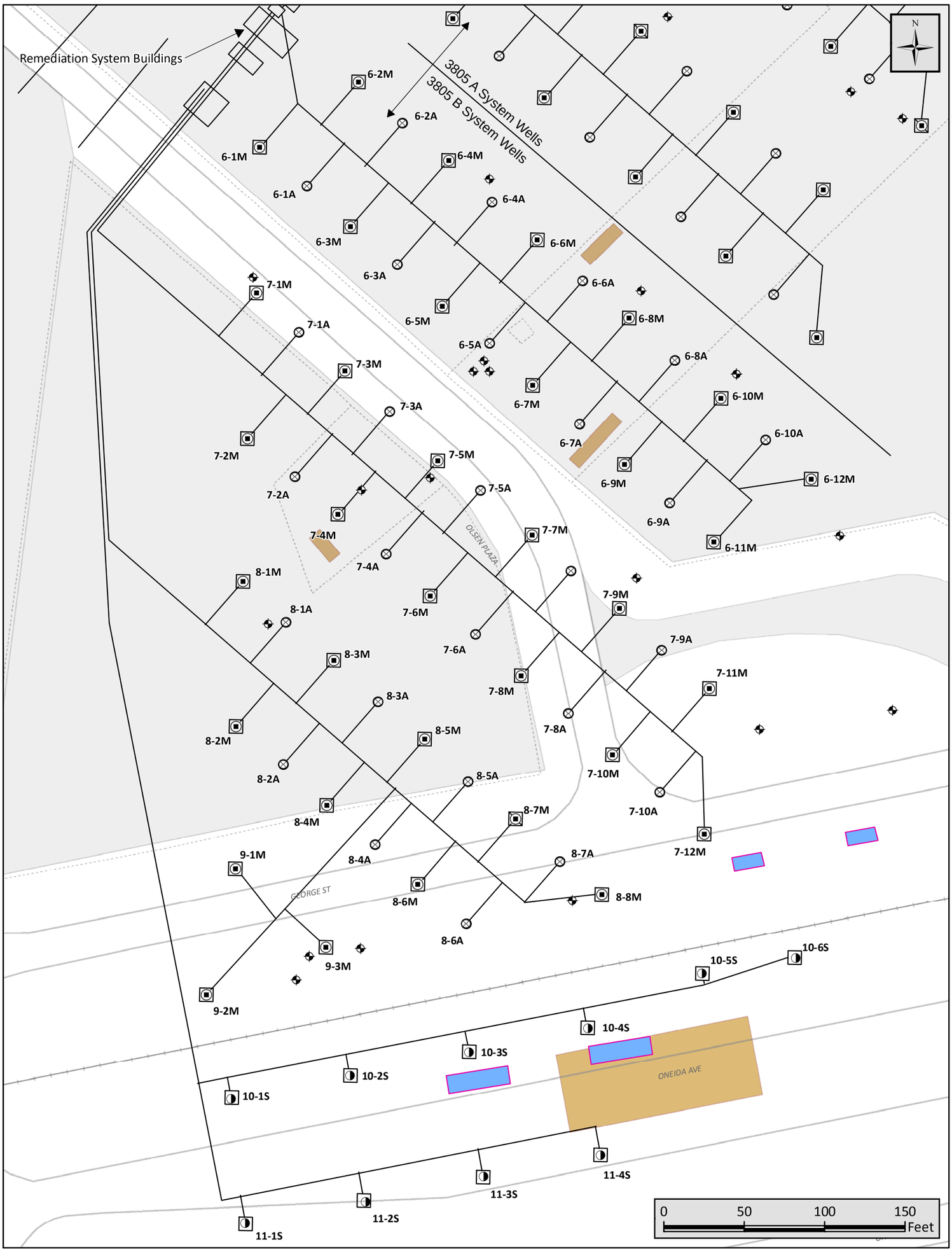

PLEXUS scientific
4501 Ford Ave.
Suite 1200
Alexandria, VA 22302
(P) 703.820.3339
(F) 703.845.8568


Created By: JRC
Date: March 2011

**FIGURE 2-5**

**Area 3805 A, Gasoline Alley**

Quarterly Report of Progress (November2010-January 2011)
Operations and Maintenance
Remediation Systems for Gasoline Alley and Army Air Force Exchange Service Station
Fort Drum, New York




## Legend

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

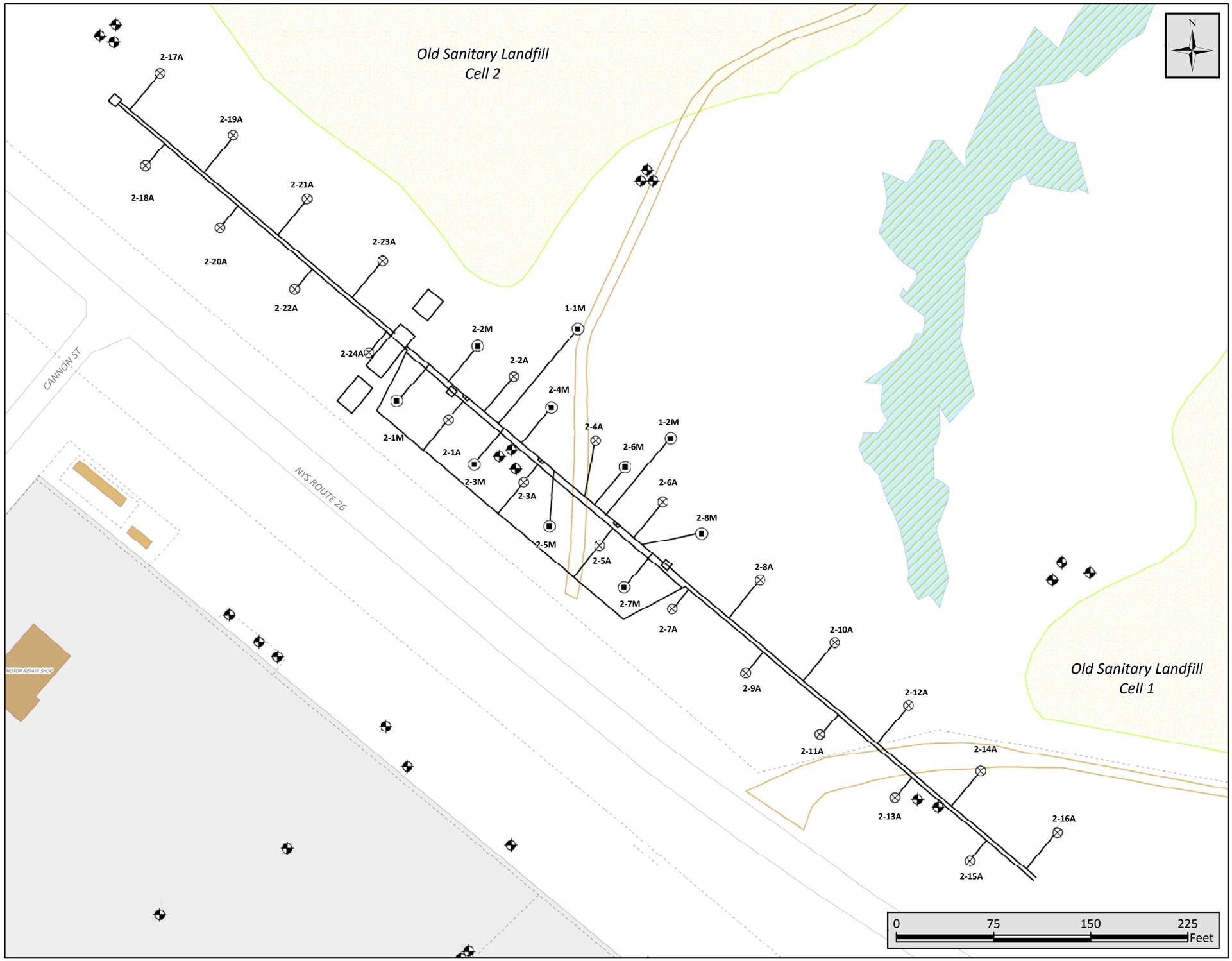

PLEXUS scientific
4501 Ford Ave.
Suite 1200
Alexandria, VA 22302
(P) 703.820.3339
(F) 703.845.8568


Created By: JRC
Date: March 2011

**FIGURE 2-6**

**Area 3805 B, Gasoline Alley**

Quarterly Report of Progress (November2010-January 2011)
Operations and Maintenance
Remediation Systems for Gasoline Alley and Army Air Force Exchange Service Station
Fort Drum, New York




## Legend

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

Abbreviation Key:
UST = Underground Storage Tank

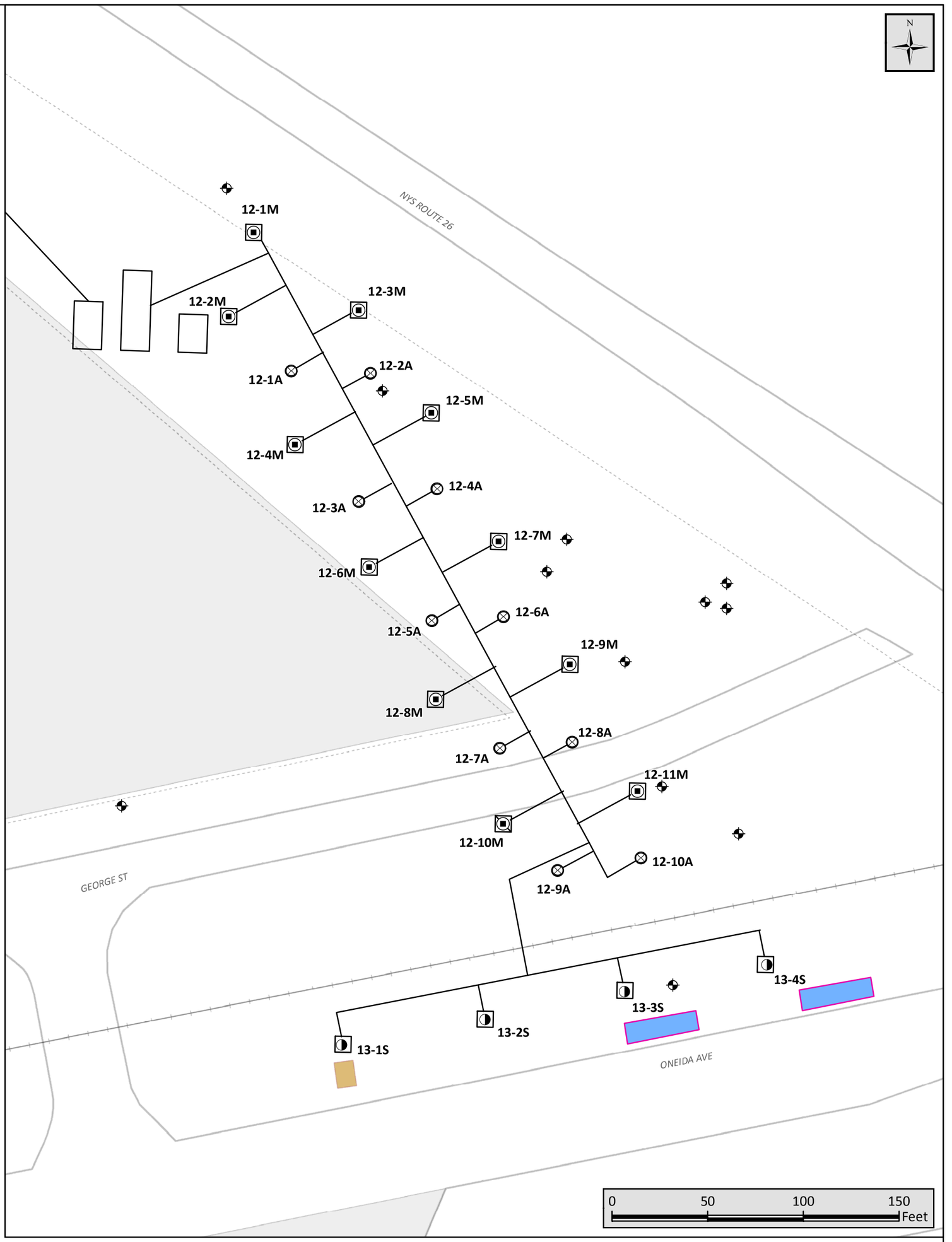

PLEXUS scientific
4501 Ford Ave.
Suite 1200
Alexandria, VA 22302
(P) 703.820.3339
(F) 703.845.8568


Created By: JRC
Date: March 2011

**FIGURE 2-7**

**Area 3805 C, Gasoline Alley**

**Quarterly Report of Progress (November2010-January 2011)
Operations and Maintenance
Remediation Systems for Gasoline Alley and Army Air Force Exchange Service Station
Fort Drum, New York**




## Legend

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

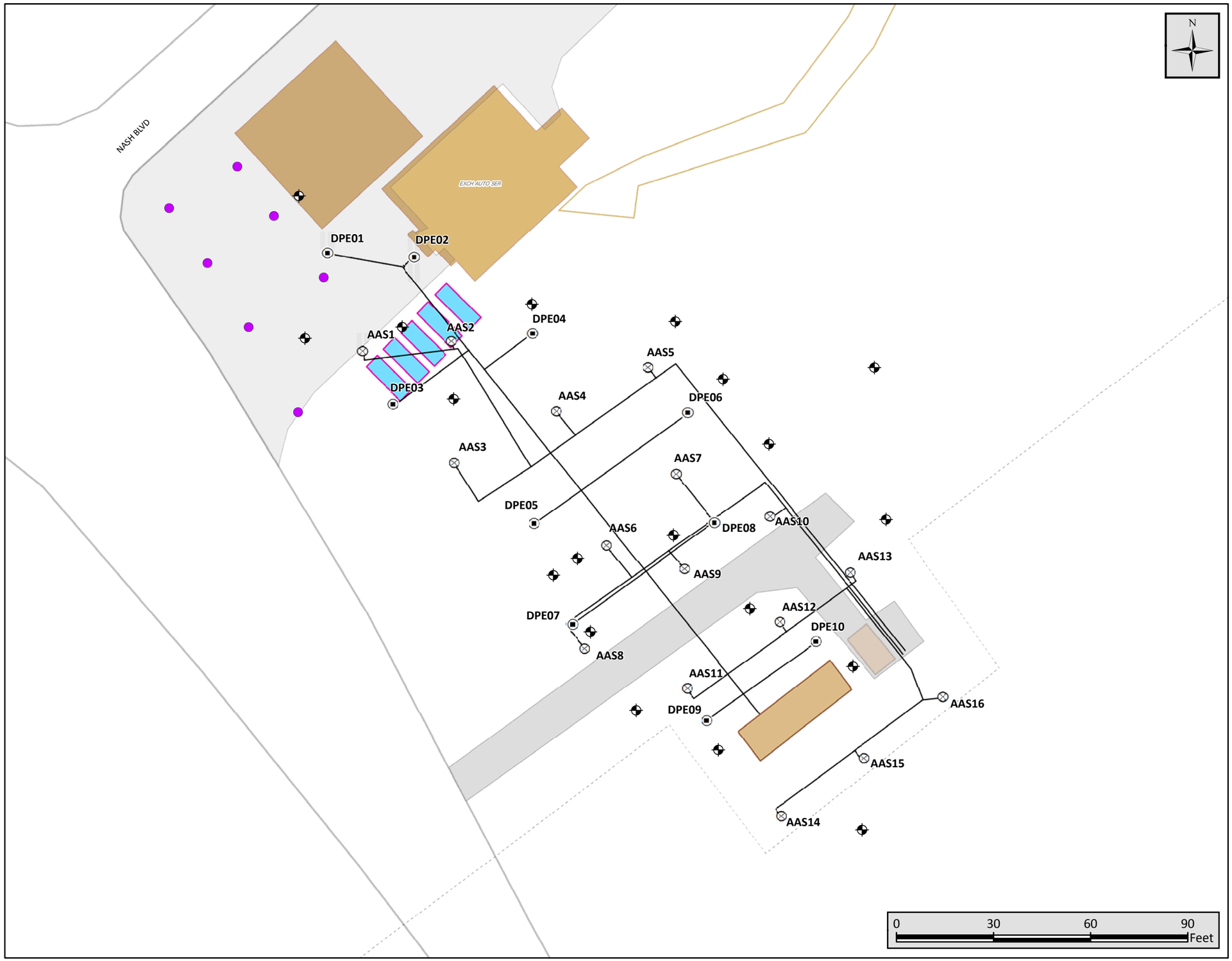

PLEXUS scientific
4501 Ford Ave.
Suite 1200
Alexandria, VA 22302
(P) 703.820.3339
(F) 703.845.8568


Created By: JRC
Date: March 2011

**FIGURE 2-8**

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

Quarterly Report of Progress (November2010-January 2011)
Operations and Maintenance
Remediation Systems for Gasoline Alley and Army Air Force Exchange Service Station
Fort Drum, New York




## Legend

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

Abbreviation Key:
UST = Underground Storage Tank


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


Created By: JRC
Date: March 2011

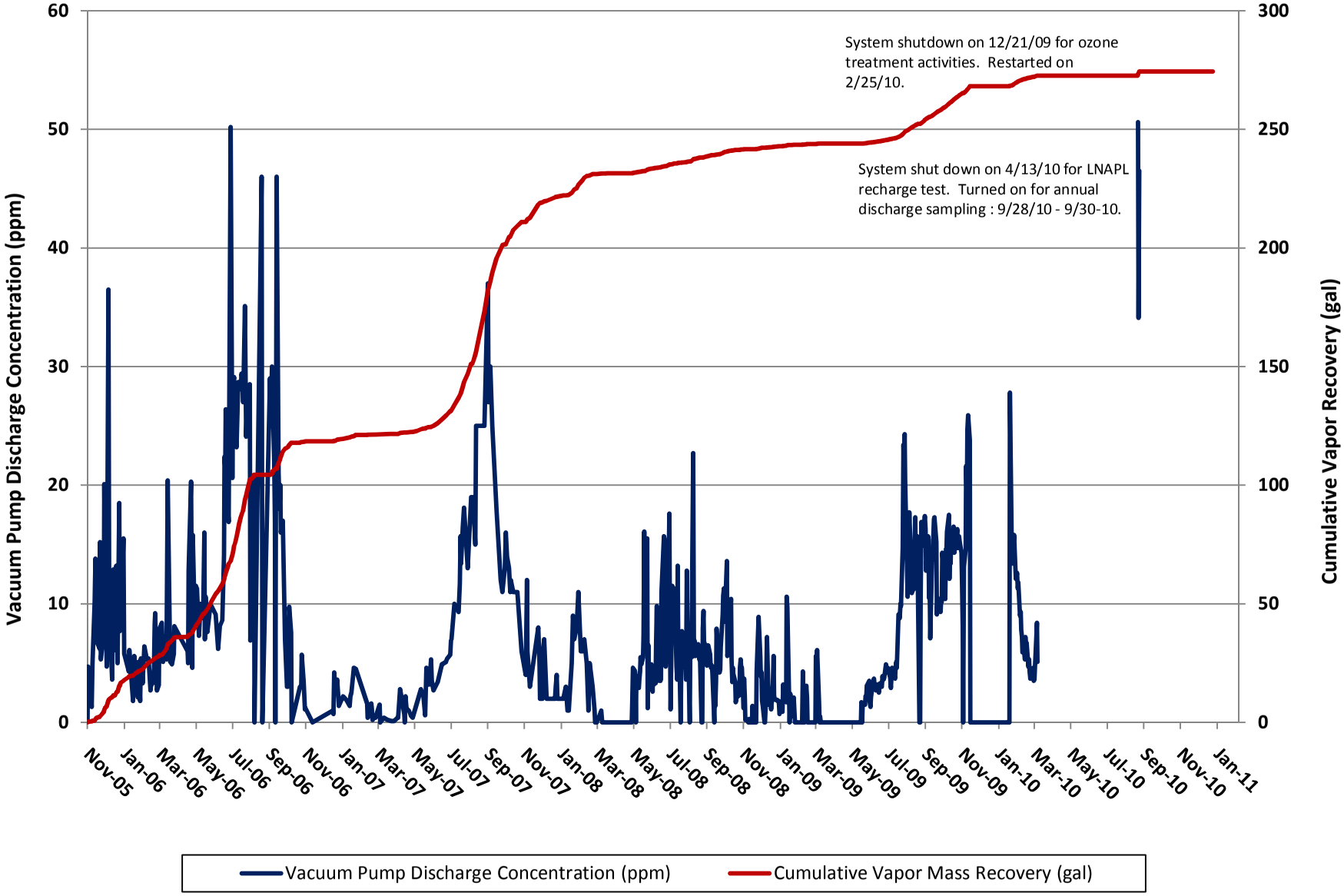
**FIGURE 2-9**

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

Quarterly Report of Progress (November2010-January 2011)
Operations and Maintenance
Remediation Systems for Gasoline Alley and Army Air Force
Exchange Service Station
Fort Drum, New York

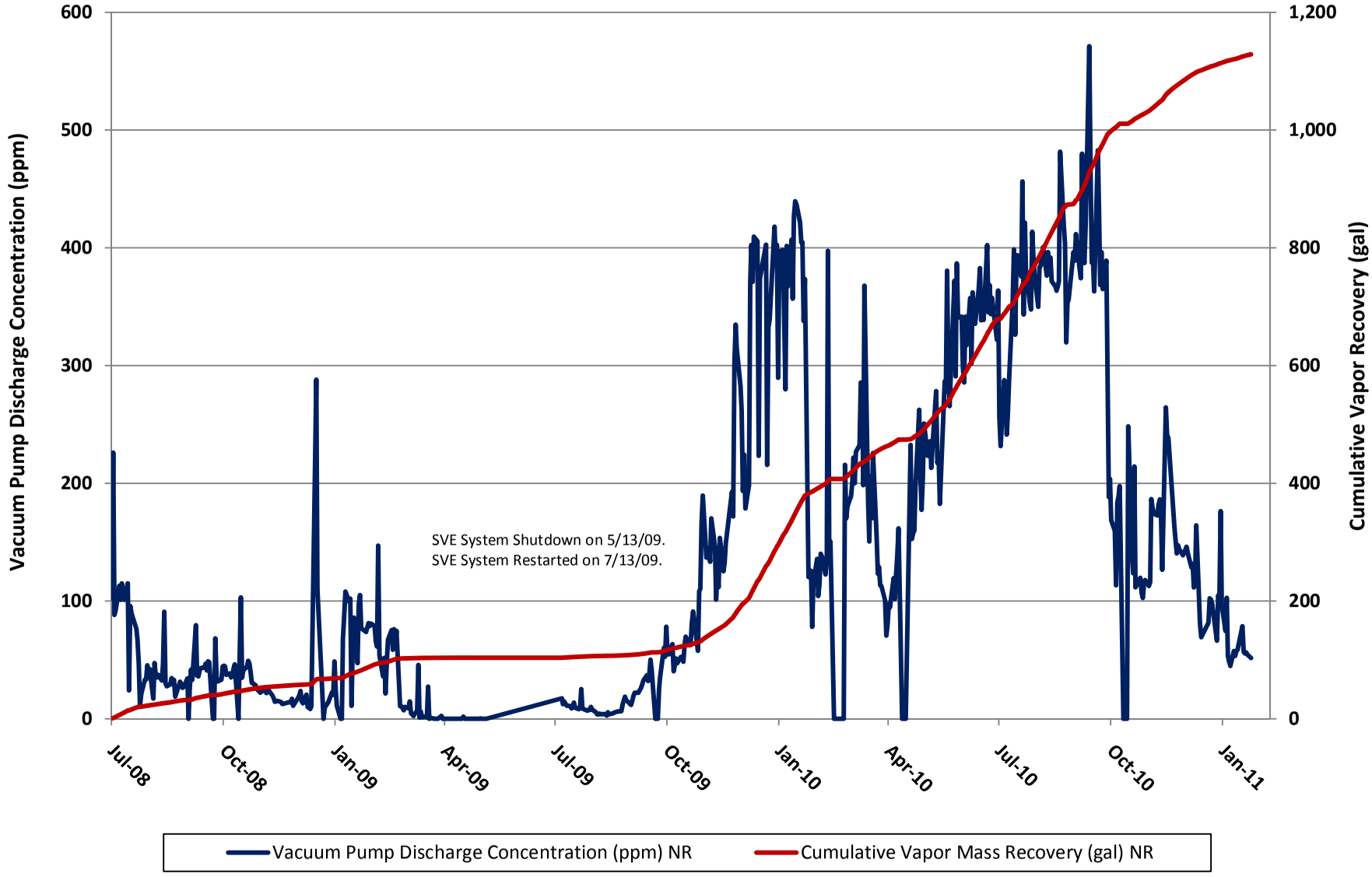
# Figure 3-1: Area 1595

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



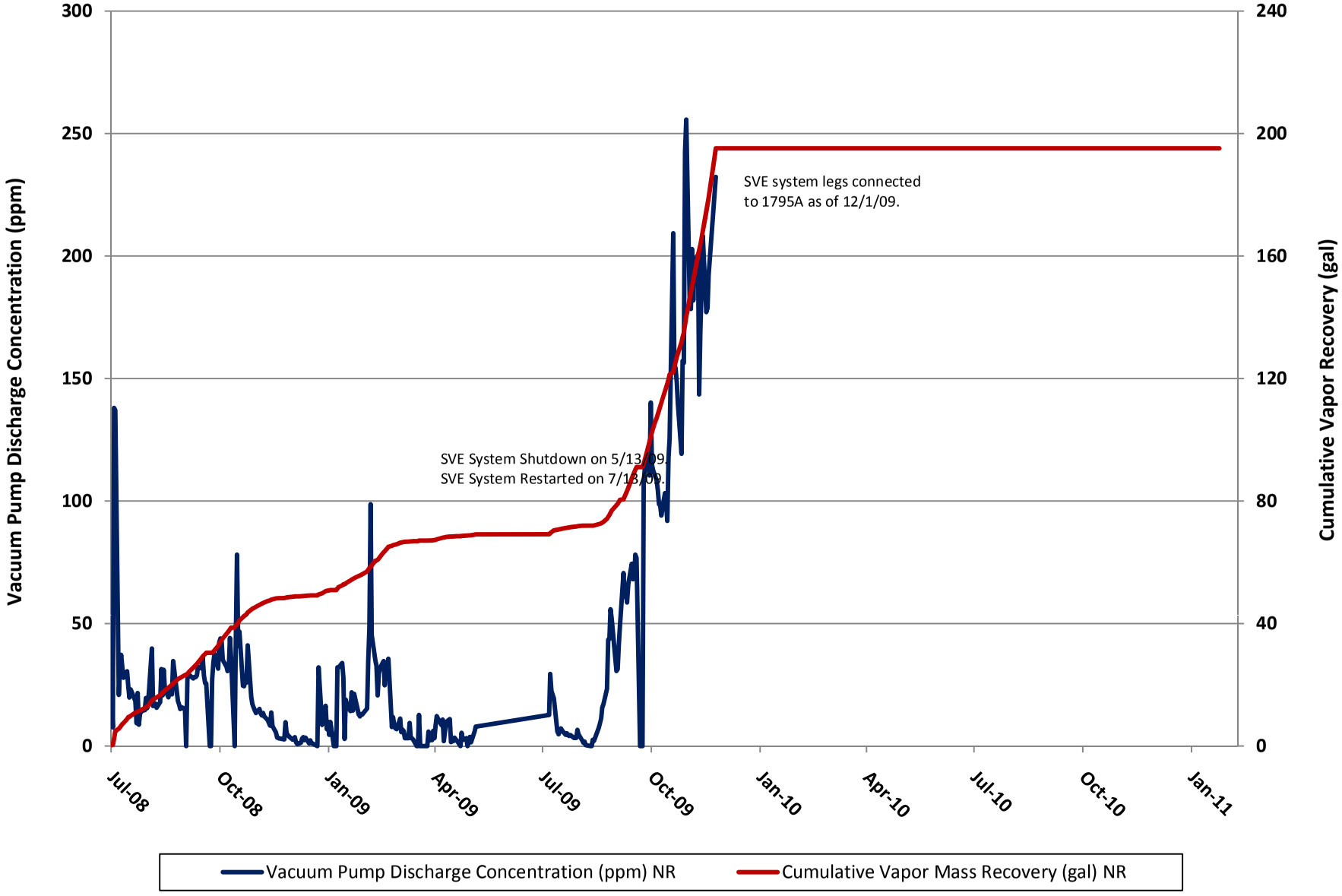
# Figure 3-2A: Area 1795 - System A

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



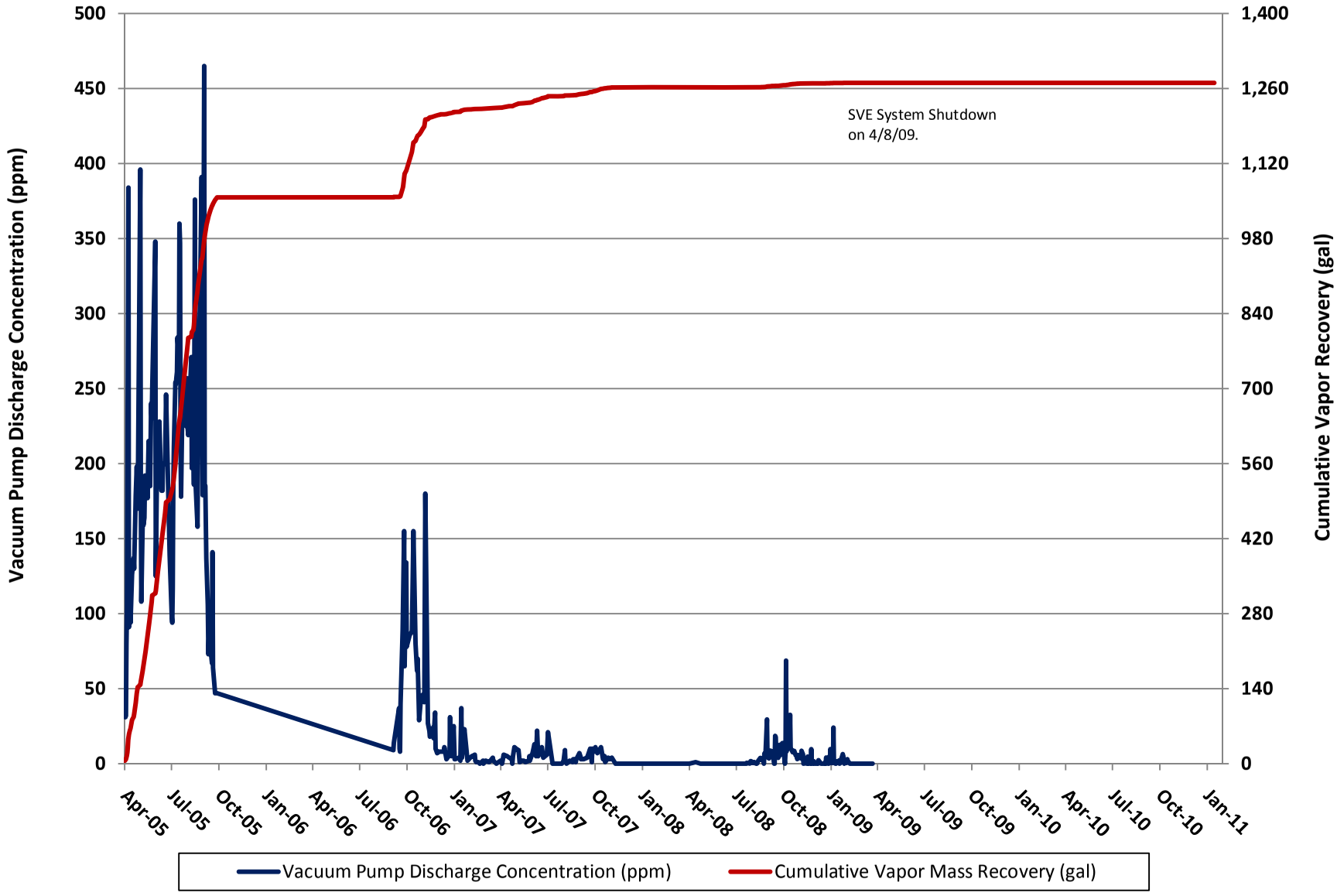
# Figure 3-2B: Area 1795 - System B

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



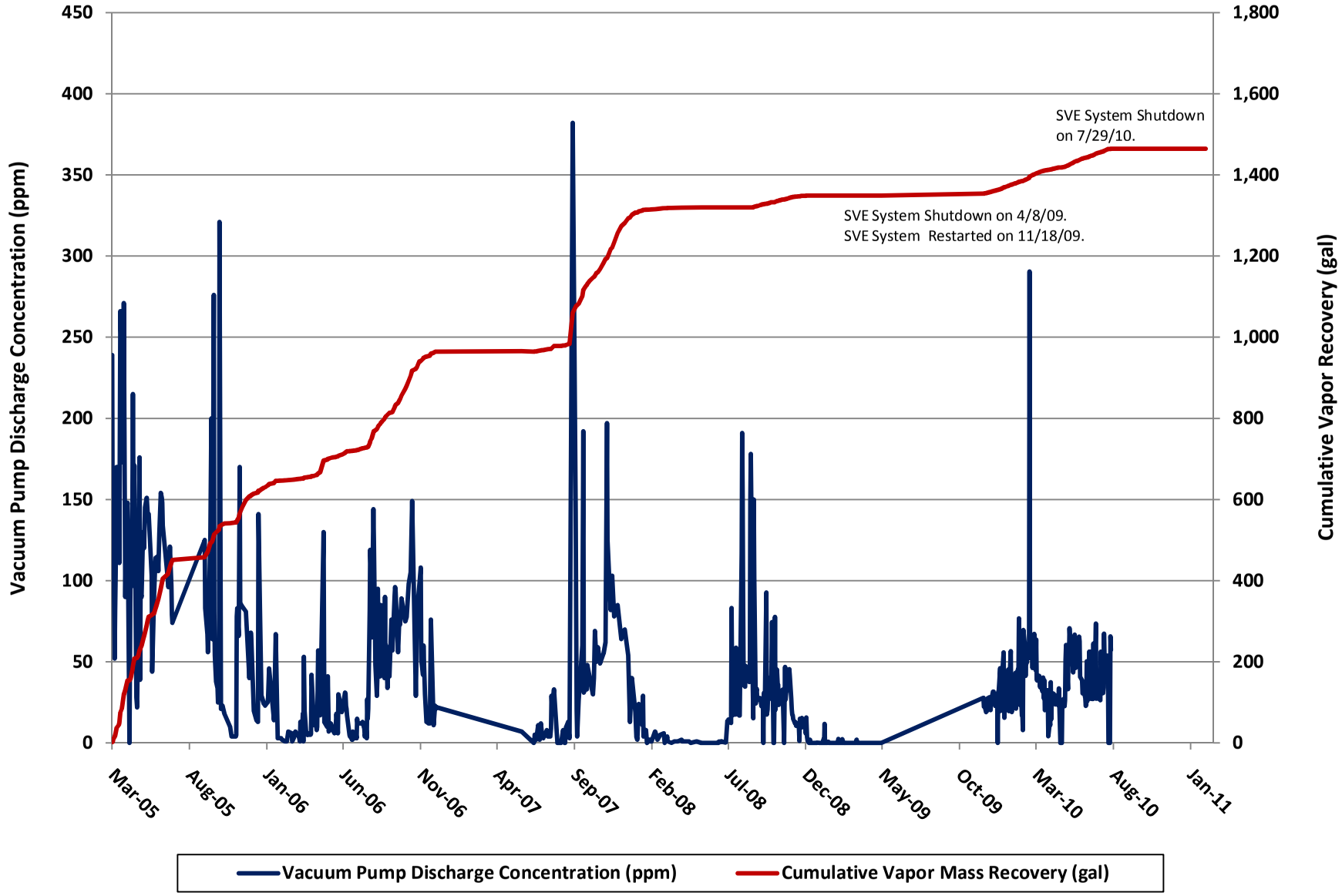
# Figure 3-3A: Area 3805 - System A

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



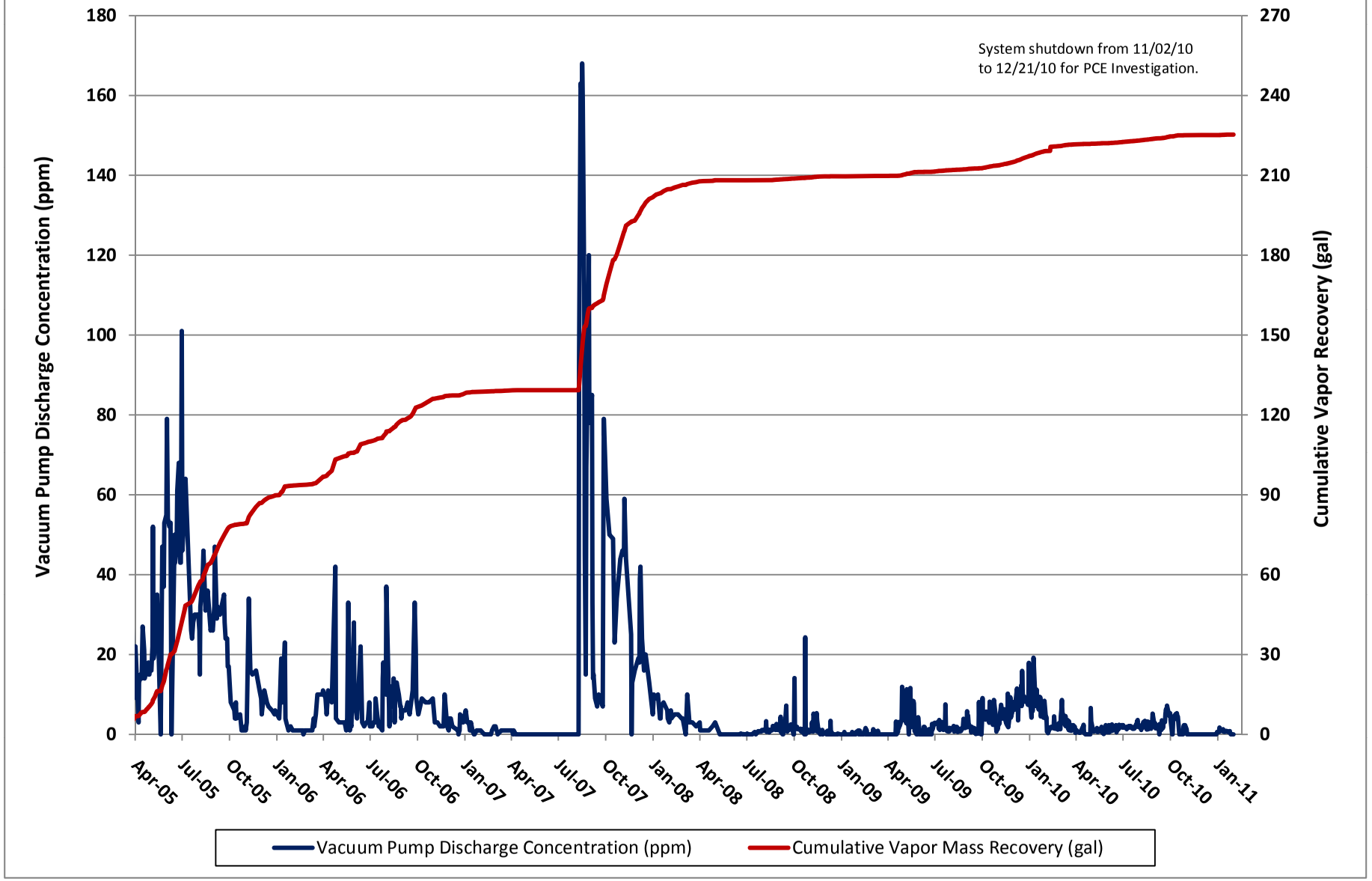
# Figure 3-3B: Area 3805 - System B

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



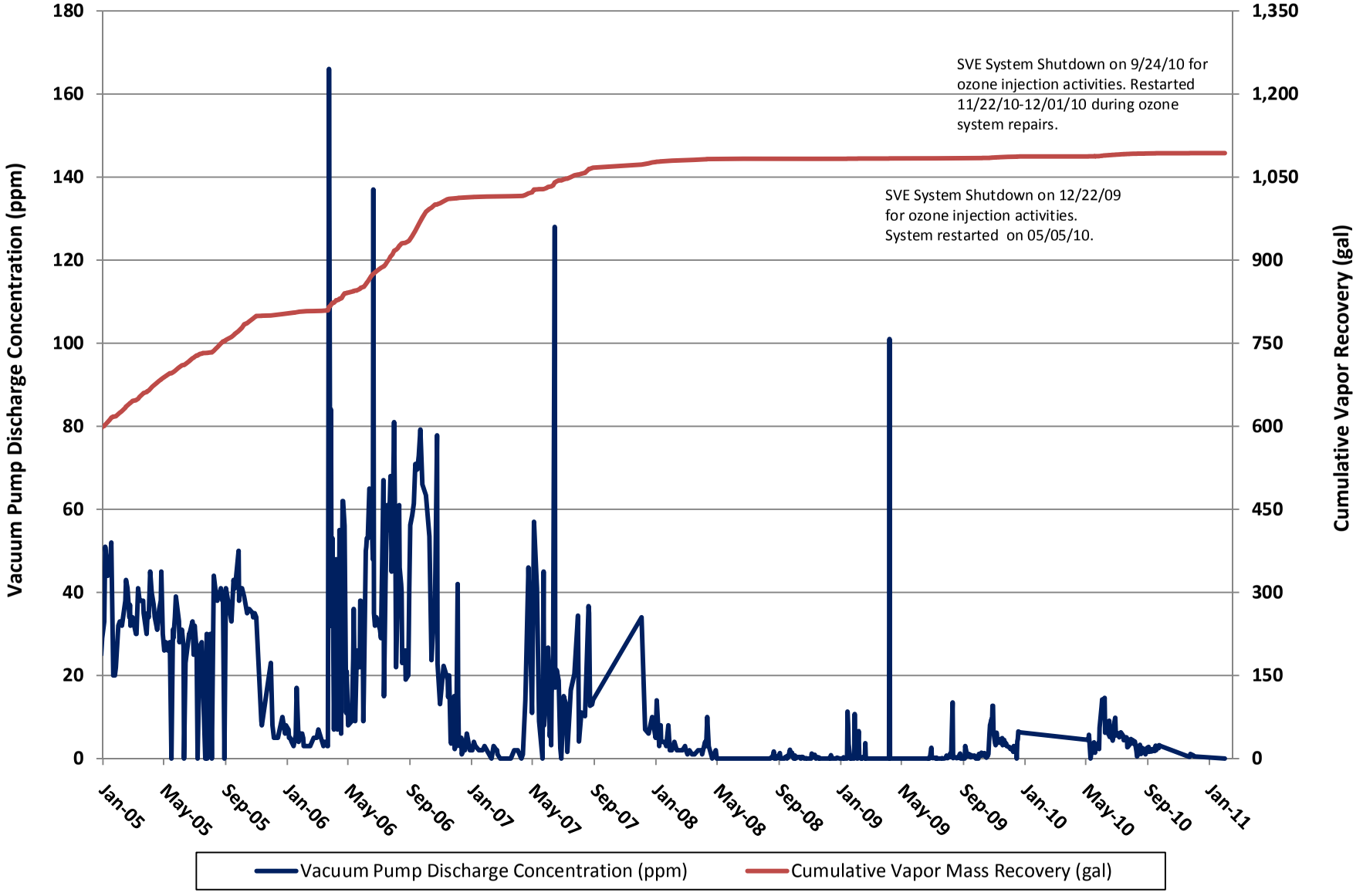
# Figure 3-3C: Area 3805 - System C

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



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

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



# TABLES

**TABLE 3-1**
**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) |
|---|---|---|---|
| **November** | 0.00 | 0.00 | 0.109 |
| **December** | 0.00 | 0.00 | 0.119 |
| **January** | 0.00 | 0.00 | 0.095 |
| **Quarter Total** | 0.00 | 0.00 | 0.323 |
| **Total to Date** | 1,768.37 | 281.59 | 155.64 |

Notes:
Area 1595 SVE system shutdown for LNAPL recharge test as of April 14, 2010.
lb = pounds
gal = gallons

**TABLE 3-2**
**CUMULATIVE VOLUME OF TREATED GROUNDWATER**
**AREA 1595**

| Description | November | December | January | 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 1595 SVE system shutdown for LNAPL recharge test as of April 14, 2010.

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

| Monitoring Well | Date | Start Time | End Time | DTW | Temp | pH | Conductivity | ORP (mV) | DO | PID (ppm) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1595-MW33A | 12/16/2008 | NR | NR | NR | NR | NR | NR | 70.2 | 10.64 | 0.0 | |
| | 1/13/2009 | 9:17 | 9:48 | 12.12 | 10.46 | 7.06 | 3.085 | 2.9 | 0.52 | 0.0 | |
| | 1/20/2009 | 10:18 | 10:29 | 12.36 | 8.30 | 7.80 | 0.430 | -46.5 | 11.85 | 0.0 | |
| | 2/5/2009 | 10:46 | 11:03 | 13.12 | 9.24 | 7.17 | 1.167 | -8.5 | 0.76 | 0.0 | |
| | 3/4/2009 | 9:13 | 9:53 | 12.69 | 8.74 | 7.42 | 0.400 | 53.7 | 8.19 | 0.0 | |
| | 3/25/2009 | 15:28 | 16:10 | 12.36 | 7.88 | 7.01 | 0.759 | 53.1 | 9.44 | 0.0 | |
| | 4/13/2009 | 13:43 | 13:48 | 12.12 | 8.36 | 8.06 | 0.326 | 169.0 | 9.83 | 0.00 | |
| | 5/19/2009 | 9:20 | 9:25 | 12.19 | 9.28 | 7.76 | 0.805 | 167.9 | 10.50 | 0.00 | |
| | 6/24/2009 | 12:37 | 12:42 | 12.64 | 12.40 | 6.84 | 0.822 | 166.4 | 1.96 | 0.00 | |
| | 7/30/2009 | 10:01 | 10:09 | 13.61 | 12.23 | 7.47 | 0.517 | 39.2 | 7.81 | 0.0 | |
| | 8/28/2009 | 10:11 | 10:16 | 11.09 | 12.34 | 6.35 | 1.775 | 17.5 | 1.49 | 0.0 | |
| | 9/16/2009 | 9:57 | 10:02 | 14.88 | 12.62 | 7.61 | 1.915 | 72.5 | 7.93 | 0.0 | |
| | 10/13/2009 | 10:11 | 10:16 | 15.16 | 11.93 | 7.58 | 0.755 | 122.1 | 8.39 | 0.0 | |
| | 11/11/2009 | 10:16 | 10:21 | 15.31 | 12.44 | 2.17 | 1.704 | 7.0 | 13.13 | 0.0 | |
| | 12/16/2009 | 11:36 | 11:41 | 15.61 | 10.74 | 7.43 | 2.005 | -14.0 | 8.38 | 0.00 | |
| | 1/15/2010 | 9:50 | 9:55 | 15.82 | 10.28 | 7.37 | 2.333 | 56.4 | 7.47 | 0.0 | |
| | 2/8/2010 | 15:15 | 15:20 | 15.31 | 8.48 | 7.27 | 1.112 | 3.0 | 9.46 | 0.0 | |
| | 3/9/2010 | 13:29 | 13:34 | 15.88 | 9.51 | 7.70 | 0.722 | -64.3 | 9.72 | 0.0 | |
| | 4/13/2010 | 14:16 | 14:21 | 15.18 | 9.22 | 7.34 | 2.115 | 71.9 | 10.33 | 0.0 | |
| | 5/11/2010 | 13:42 | 13:47 | 15.58 | 9.14 | 7.55 | 1.838 | -8.6 | 9.21 | 0.0 | |
| | 6/15/2010 | 14:12 | 14:17 | 15.91 | 10.66 | 7.51 | 0.613 | -43.2 | 10.95 | 0.0 | |
| | 7/13/2010 | 14:17 | 14:22 | 15.78 | 11.70 | 7.63 | 0.589 | -3.7 | 11.23 | 0.0 | |
| | 8/10/2010 | 13:30 | 13:35 | 16.52 | 13.83 | 7.59 | 2.100 | 0.5 | 9.18 | 0.0 | |
| | 9/14/2010 | 11:15 | 11:20 | 15.86 | 12.85 | 6.74 | 2.391 | 9.9 | 7.78 | 2.0 | |
| | 10/12/2010 | 13:32 | 13:37 | 14.44 | 14.38 | 7.12 | 0.308 | -30.1 | 9.12 | 0.0 | |
| | 11/15/2010 | 11:40 | 11:45 | 14.59 | 13.37 | 6.84 | 0.497 | 54.8 | 9.94 | 0.0 | |
| | 12/15/2010 | 9:45 | 9:50 | 13.67 | 11.00 | 7.02 | 0.269 | -143.8 | 4.02 | 0.0 | |
| | 1/14/2011 | 8:26 | 8:31 | 13.94 | 9.76 | 7.48 | 0.723 | 41.7 | 10.39 | 0.0 | |
| | | | | | | | | | | | |
| 1595-MW35 | 12/16/2008 | NR | NR | NR | NR | NR | NR | 285.8 | 10.87 | 0.0 | |
| | 1/13/2009 | 10:06 | 10:37 | 11.25 | 9.65 | 6.91 | 0.481 | 33.7 | 0.83 | 0.0 | |
| | 1/20/2009 | 8:20 | 8:35 | 11.55 | 8.90 | 7.55 | 0.413 | 76.8 | 12.11 | 0.0 | |
| | 2/5/2009 | 11:50 | 12:21 | 12.18 | 9.76 | 6.98 | 0.382 | 8.8 | 1.00 | 0.3 | |
| | 3/4/2009 | 10:11 | 10:39 | 11.6 | 8.05 | 7.14 | 0.255 | 86.8 | 10.71 | 0.0 | |
| | 3/25/2009 | 15:12 | 15:49 | 11.27 | 7.42 | 6.56 | 0.282 | 26.5 | 10.79 | 0.0 | |
| | 4/13/2009 | 14:51 | 14:56 | 11.54 | 7.40 | 6.98 | 0.420 | 184.3 | 14.43 | 0.0 | Well bubbling |
| | 5/19/2009 | 10:55 | 11:00 | 11.14 | 8.38 | 7.44 | 0.194 | 142.7 | 16.07 | 0.0 | |
| | 6/24/2009 | 13:57 | 14:02 | 11.64 | 9.60 | 7.13 | 0.423 | 34.7 | 12.74 | 0.0 | |
| | 7/30/2009 | 10:23 | 10:28 | 12.62 | 10.58 | 7.08 | 0.756 | 36.1 | 10.33 | 0.0 | |
| | 8/28/2009 | 10:46 | 10:51 | 13.32 | 12.90 | 6.72 | 0.408 | 101.5 | 12.48 | 0.0 | |
| | 9/16/2009 | 10:14 | 10:19 | 13.95 | 12.44 | 7.22 | 0.727 | 15.7 | 10.48 | 0.0 | |
| | 10/13/2009 | 10:37 | 10:42 | 14.36 | 12.20 | 7.06 | 0.591 | 23.4 | 9.56 | 0.0 | |
| | 11/11/2009 | 10:41 | 10:46 | 14.56 | 12.13 | 6.94 | 0.517 | -12.6 | 10.06 | 0.0 | |
| | 12/16/2009 | 11:10 | 11:15 | 14.71 | 10.94 | 7.26 | 0.467 | 14.7 | 12.12 | 0.00 | Well bubbling |
| | 1/15/2010 | 10:00 | 10:05 | 15.03 | 10.30 | 7.45 | 0.531 | 44.9 | 9.85 | 0.0 | |
| | 2/8/2010 | 14:53 | 14:58 | 14.67 | 9.50 | 6.90 | 0.463 | -11.9 | 10.74 | 0.2 | |
| | 3/9/2010 | 13:16 | 13:21 | 14.99 | 9.40 | 6.99 | 0.565 | -17.5 | 11.23 | 0.0 | |
| | 4/13/2010 | 14:07 | 14:12 | 14.42 | 8.76 | 6.96 | 0.659 | 79.5 | 11.70 | 0.0 | |
| | 5/11/2010 | 13:30 | 13:35 | 14.94 | 8.65 | 7.05 | 0.741 | -16.9 | 10.80 | 0.0 | |
| | 6/15/2010 | 13:46 | 13:51 | 15.14 | 9.50 | 6.97 | 0.410 | -6.5 | 11.44 | 0.0 | |
| | 7/13/2010 | 13:50 | 13:55 | 14.83 | 10.18 | 7.05 | 0.613 | 127.4 | 11.62 | 0.0 | |
| | 8/10/2010 | 11:00 | 11:05 | 14.49 | 11.13 | 7.20 | 0.638 | 167.0 | 11.50 | 0.0 | |
| | 9/14/2010 | 12:27 | 12:32 | 14.94 | 13.23 | 6.90 | 0.321 | 46.8 | 9.43 | 0.0 | |
| | 10/12/2010 | 13:04 | 13:09 | 13.18 | 13.24 | 7.15 | 0.508 | 73.0 | 9.93 | 0.0 | |
| | 11/15/2010 | 10:58 | 11:03 | 13.74 | 12.89 | 7.25 | 0.043 | 116.7 | 9.98 | 0.0 | |
| | 12/15/2010 | 9:00 | 9:05 | 12.71 | 11.62 | 7.11 | 0.391 | -133.0 | 3.00 | 0.0 | |
| | 1/14/2011 | 12:45 | 12:50 | 13.13 | 10.56 | 7.19 | 0.468 | 124.7 | 10.37 | 0.0 | |
| | | | | | | | | | | | |
| 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 | 0.00 | |
| | 1/15/2010 | 10:12 | 10:17 | 15.81 | 11.44 | 6.74 | 0.953 | 49.1 | 0.99 | 1.3 | |
| | 2/8/2010 | 14:45 | 14:50 | 15.33 | 10.22 | 6.45 | 1.063 | 18.5 | 1.24 | 0.0 | |
| | 3/9/2010 | 13:02 | 13:07 | 15.84 | 10.22 | 6.52 | 2.035 | -54.4 | 4.03 | 0.0 | |
| | 4/13/2010 | 13:55 | 14:00 | 15.25 | 10.06 | 6.96 | 1.682 | 53.5 | 3.48 | 0.0 | |

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

| Monitoring Well | Date | Start Time | End Time | DTW | Temp | pH | Conductivity | ORP (mV) | DO | PID (ppm) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5/11/2010 | 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 | |
| | | | | | | | | | | | |
| 1595-MWS8 | 12/16/2008 | NR | NR | NR | NR | NR | NR | -29.5 | 0.93 | 0.0 | |
| | 1/13/2009 | 7:55 | 8:33 | 7.06 | 8.96 | 6.26 | 1.126 | -39.9 | 0.17 | 0.0 | |
| | 1/20/2009 | 9:37 | 9:51 | 7.20 | 7.77 | 6.82 | 1.076 | 35.1 | 7.64 | 0.0 | |
| | 2/5/2009 | 9:53 | 10:39 | 7.70 | 9.93 | 6.64 | 1.599 | 2.5 | 0 | 0.0 | |
| | 3/4/2009 | 7:29 | 8:12 | 7.11 | 6.87 | 6.41 | 0.471 | -28 | 0.73 | 0.0 | |
| | 3/25/2009 | 14:40 | 15:22 | 7.02 | 7.22 | 6.10 | 1.033 | 18.1 | 5.88 | 85.3 | |
| | 4/13/2009 | 14:34 | 14:39 | 6.89 | 8.13 | 6.78 | 0.443 | -80.9 | 1.42 | 38.8 | |
| | 5/19/2009 | 10:23 | 10:28 | 7.13 | 10.28 | 6.45 | 0.858 | -112.2 | 1.62 | 0.0 | |
| | 6/24/2009 | 13:03 | 13:08 | 7.51 | 14.51 | 6.20 | 1.093 | -55.7 | 1.69 | 1.0 | |
| | 7/30/2009 | 9:15 | 9:20 | 8.08 | 16.40 | 6.29 | 0.745 | -64.7 | 1.27 | 0.6 | |
| | 8/28/2009 | 9:56 | 10:01 | 8.64 | 17.33 | 6.08 | 0.785 | -46.1 | 1.64 | 0.0 | |
| | 9/16/2009 | NR | NR | NR | NR | NR | NR | NR | NR | NR | DTP 8.92 DTW 8.94, 0.02 of LNAPL, no sampling performed |
| | 10/13/2009 | NR | NR | NR | NR | NR | NR | NR | NR | NR | DTP 8.93 DTW 8.95, 0.02 of LNAPL, no sampling performed, LNAPL removed using system |
| | 11/11/2009 | NR | NR | NR | NR | NR | NR | NR | NR | NR | DTP 9.04 DTW 9.08, 0.02 of LNAPL, no sampling performed, LNAPL removed by bailer |
| | 12/16/2009 | NR | NR | NR | NR | NR | NR | NR | NR | NR | DTP 9.01 DTW 9.04, 0.03 of LNAPL, no sampling performed, LNAPL removed by bailer |
| | 1/15/2010 | NR | NR | NR | NR | NR | NR | NR | NR | NR | DTP 9.31, DTW 9.33, 0.02 of LNAPL, no sampling performed, LNAPL removed by bailer |
| | 2/8/2010 | NR | NR | 8.98 | NR | NR | NR | NR | NR | NR | DTP 8.86, DTW 8.98, 0.12 of LNAPL, no sampling performed, LNAPL removed by bailer |
| | 3/9/2010 | 14:55 | NR | 9.31 | NR | NR | NR | NR | NR | NR | DTP, 9.31, DTW 9.33, 0.02 of LNAPL, no sampling performed, LNAPL removed by bailer |
| | 4/13/2010 | 15:00 | NR | 8.97 | NR | NR | NR | NR | NR | 52.80 | DTP 8.86, DTW 8.97, 0.11 of LNAPL, no sampling performed, LNAPL removed by bailer |
| | 5/11/2010 | 14:50 | 14:55 | 9.18 | 10.33 | 6.24 | 0.434 | -34.3 | 0.38 | 212.8 | |
| | 6/15/2010 | 15:07 | 15:12 | 9.46 | 13.01 | 6.08 | 0.611 | -40.3 | 1.27 | 241.80 | |
| | 7/13/2010 | 15:20 | 15:25 | 9.38 | 14.98 | 6.10 | 0.307 | -10.2 | 0.92 | 418.80 | |
| | 8/10/2010 | 11:35 | 11:40 | 9.28 | 14.36 | 6.26 | 0.408 | 55.5 | 0.56 | 215.10 | |
| | 9/14/2010 | 14:50 | 14:55 | 9.63 | 15,21 | 6.31 | 0.749 | 15.1 | 3.50 | 348.80 | Had reading on interface probe. Checked with bailer, no product found. Sampled after all other wells for the day. |
| | 10/12/2010 | - | | 8.78 | | | | | | 333.40 | DTP8.15, DTW 8.78 Not sampled |
| | 11/15/2010 | - | - | 8.82 | | | | | | 379.60 | DTP=8.57 DTW =8.82 NOT SAMPLED |
| | 12/15/2010 | - | - | 8.41 | | | | | | 357.20 | DTP=7.68 DTW= 8.41 Not sampled |
| | 1/14/2011 | - | - | 8.27 | | | | | | 88.80 | DTP=8.24 DTW= 8.27 Not sampled |
| | | | | | | | | | | | |
| 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 | |
| | 3/4/2009 | 7:35 | 8:20 | 3.91 | 9.89 | 7.44 | 0.435 | 61.0 | 11.92 | 0.0 | |
| | 3/25/2009 | 14:33 | 15:02 | 4.23 | 8.00 | 7.16 | 0.396 | 2.1 | 12.05 | 19.4 | |
| | 4/13/2009 | 14:41 | 14:46 | 3.78 | 8.41 | 7.84 | 0.261 | 8.1 | 12.43 | 4.8 | |
| | 5/19/2009 | 10:37 | 10:42 | 3.87 | 9.85 | 7.48 | 0.792 | 134.1 | 13.02 | 0.1 | |
| | 6/24/2009 | 13:16 | 13:21 | 4.06 | 15.65 | 6.81 | 0.689 | 19.4 | 1.95 | 2.6 | |
| | 7/30/2009 | 9:27 | 9:32 | 4.26 | 15.40 | 7.00 | 0.604 | 75.5 | 6.88 | 1.1 | |
| | 8/28/2009 | 9:05 | 9:10 | 4.45 | 16.34 | 6.83 | 0.820 | 119.1 | 2.36 | 0.0 | |
| | 9/16/2009 | 9:15 | 9:20 | 4.63 | 14.56 | 6.95 | 1.008 | 206.2 | 2.06 | 0.4 | |
| | 10/13/2009 | 9:20 | 9:25 | 4.53 | 12.61 | 6.94 | 0.590 | 127.3 | 3.92 | 0.1 | |
| | 11/11/2009 | 9:30 | 9:35 | 4.66 | 11.51 | 7.12 | 0.857 | 47.4 | 11.56 | 0.2 | |
| | 12/16/2009 | 13:10 | 13:15 | 4.58 | 10.69 | 6.96 | 0.697 | 45.9 | 10.83 | 0.00 | |
| | 1/15/2010 | 9:20 | 9:25 | 4.81 | 8.45 | 7.34 | 0.864 | 53.4 | 10.35 | 9.0 | |
| | 2/8/2010 | 13:25 | 13:30 | 4.54 | 7.48 | 7.17 | 0.583 | 9.7 | 11.85 | 0.8 | |
| | 3/9/2010 | 15:06 | 15:11 | 4.76 | 7.03 | 6.88 | 0.621 | 5.1 | 9.80 | 1.2 | |
| | 4/13/2010 | 15:07 | 15:12 | 4.61 | 8.85 | 7.19 | 0.803 | 106.9 | 13.51 | 3.4 | |
| | 5/11/2010 | 14:37 | 14:42 | 4.73 | 10.38 | 7.10 | 0.779 | -23.9 | 11.73 | 3.3 | |
| | 6/15/2010 | 14:55 | 15:00 | 4.93 | 14.35 | 6.62 | 0.486 | -59.0 | 7.50 | 60.0 | |
| | 7/13/2010 | 15:00 | 15:05 | 4.89 | 18.15 | 7.27 | 0.288 | 136.1 | 9.15 | 5.8 | |
| | 8/10/2010 | 11:59 | 12:04 | 4.87 | 17.71 | 7.26 | 0.322 | 26.2 | 8.98 | 0.9 | |
| | 9/14/2010 | 11:39 | 11:44 | 5.05 | 16.45 | 7.11 | 0.429 | -25.1 | 8.86 | 1.3 | |
| | 10/12/2010 | 14:04 | 14:09 | 4.38 | 14.21 | 7.25 | 0.289 | 0.1 | 8.49 | 0.3 | |
| | 11/15/2010 | 11:18 | 11:23 | 4.51 | 11.87 | 7.47 | 1.355 | 139.10 | 10.89 | 0.0 | |
| | 12/15/2010 | 10:30 | 10:35 | 4.16 | 8.79 | 7.47 | 1.257 | -119.90 | 0.51 | 1.3 | |
| | 1/14/2011 | 12:07 | 12:12 | 4.34 | 9.62 | 7.47 | 1.043 | 138.30 | 10.18 | 0.0 | |

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

| Monitoring Well | Date | Start Time | End Time | DTW | Temp | pH | Conductivity | ORP (mV) | DO | PID (ppm) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |
| 1595-OBG2 | 12/16/2008 | NR | NR | 10.45 | NR | NR | NR | NR | NR | 123.0 | DTP 10.20', 0.25' LNAPL detected in well. 1595-PZ-10 used as replacement for well. |
| | 1/6/2009 | NR | NR | NR | NR | NR | NR | NR | NR | NR | LNAPL detected in well, 2.5", bailer and absorbent pad used to collect LNAPL. 1595-PZ-10 used as replacement for well. |
| | | | | | | | | | | | |
| 1595-OBG9 | 12/16/2008 | NR | NR | NR | NR | NR | NR | 167.4 | 11.97 | 0.0 | |
| | 1/13/2009 | 8:42 | 9:20 | 7.00 | 8.02 | 5.11 | 0.114 | 248.6 | 11.62 | 0.0 | |
| | 1/20/2009 | 10:38 | 11:00 | 6.24 | 7.83 | 5.43 | 0.337 | -12.1 | 2.23 | 0.9 | |
| | 2/5/2009 | 10:48 | 11:27 | 7.89 | 8.36 | 6.21 | 0.109 | 131.7 | 0.01 | 0.1 | |
| | 3/4/2009 | 8:26 | 9:14 | 6.83 | 6.35 | 5.85 | 0.065 | 161.1 | 11.59 | 0.0 | |
| | 3/25/2009 | 16:21 | 17:32 | 7.04 | 5.70 | 5.72 | 0.073 | 203.2 | 11.21 | 0.0 | |
| | 4/13/2009 | 14:07 | 14:12 | 6.64 | 7.02 | 6.37 | 0.050 | 154.7 | 13.42 | 0.0 | |
| | 5/19/2009 | 9:45 | 9:50 | 6.96 | 8.64 | 6.80 | 0.104 | 151.7 | 13.21 | 0.0 | |
| | 6/24/2009 | 13:30 | 13:35 | 7.68 | 10.93 | 5.91 | 0.126 | 147.9 | 9.33 | 0.0 | |
| | 7/30/2009 | 9:53 | 9:58 | 8.58 | 11.66 | 5.47 | 0.497 | 135.3 | 7.45 | 0.0 | |
| | 8/28/2009 | 10:26 | 10:31 | 9.23 | 12.10 | 5.28 | 0.716 | 172.9 | 11.09 | 0.0 | |
| | 9/16/2009 | 9:40 | 9:45 | 9.86 | 11.74 | 5.52 | 0.742 | 128.0 | 6.78 | 0.0 | |
| | 10/13/2009 | 9:59 | 10:04 | 9.87 | 11.33 | 5.64 | 0.579 | 169.7 | 7.43 | 0.0 | |
| | 11/11/2009 | 10:06 | 10:11 | 9.96 | 11.13 | 5.47 | 0.393 | 105.5 | 8.48 | 0.0 | |
| | 12/16/2009 | 12:55 | 13:00 | 9.86 | 10.86 | 5.75 | 0.246 | 87.0 | 10.27 | 0.00 | |
| | 1/15/2010 | 10:25 | 10:30 | 10.36 | 9.20 | 6.13 | 0.272 | 60.4 | 8.74 | 0.9 | |
| | 2/8/2010 | 14:30 | 14:35 | 9.79 | 7.52 | 5.93 | 0.134 | 10.1 | 13.36 | 0.0 | |
| | 3/9/2010 | 13:56 | 14:01 | 10.24 | 8.57 | 5.18 | 0.138 | 138.7 | 12.08 | 0.6 | |
| | 4/13/2010 | 14:30 | 14:35 | 9.88 | 8.17 | 5.44 | 0.113 | 93.3 | 12.18 | 1.1 | |
| | 5/11/2010 | 14:03 | 14:08 | 10.24 | 8.60 | 5.46 | 0.148 | 112.9 | 10.74 | 0.0 | |
| | 6/15/2010 | 14:34 | 13:39 | 10.56 | 10.71 | 5.14 | 0.127 | -3.0 | 11.94 | 0.3 | |
| | 7/13/2010 | 14:22 | 14:27 | 10.31 | 11.78 | 5.97 | 0.138 | 140.6 | 10.70 | 0.1 | |
| | 8/10/2010 | 12:54 | 12:59 | 10.16 | 12.89 | 6.44 | 0.165 | 124.8 | 10.67 | 0.0 | |
| | 9/14/2010 | 12:14 | 12:19 | 10.57 | 13.14 | 6.12 | 0.264 | -15.5 | 8.75 | 0.0 | |
| | 10/12/2010 | 13:41 | 13:46 | 8.46 | 13,78 | 6.48 | 0.145 | 73.1 | 10.36 | 0.0 | |
| | 11/15/2010 | 12:01 | 12:06 | 9.17 | 13.14 | 6.11 | 0.137 | 145.80 | 8.53 | 0.0 | |
| | 12/15/2010 | 9:28 | 9:33 | 7.93 | 10.61 | 6.17 | 0.107 | -131.00 | 5.21 | 0.3 | |
| | 1/14/2011 | 12:36 | 12:41 | 8.66 | 9.28 | 6.72 | 0.161 | 210.60 | 9.27 | 0.0 | |
| | | | | | | | | | | | |
| 15915-PZ-10 | 1/13/2009 | 8:49 | 9:12 | 12.34 | 11.25 | 6.55 | 2.696 | -17.6 | 0.05 | 0.0 | Replacement for 1595-OBG2 (due to presence of LNAPL) |
| | 1/20/2009 | 10:05 | 10:16 | 12.52 | 8.90 | 6.74 | 0.116 | 117.4 | 11.33 | 4.8 | |
| | 2/5/2009 | 10:17 | 10:43 | 13.26 | 9.31 | 6.35 | 0.393 | 11.5 | 0.29 | 0.0 | |
| | 3/4/2009 | 8:16 | 9:06 | 12.68 | 9.67 | 6.69 | 0.911 | 34.2 | 7.49 | 0.0 | |
| | 3/25/2009 | 15:09 | 15:36 | 12.51 | 8.12 | 6.00 | 0.676 | -25.1 | 3.24 | 0.0 | |
| | 4/13/2009 | 14:21 | 14:26 | 12.24 | 8.36 | 6.77 | 0.141 | 0.7 | 3.78 | 0.0 | |
| | 5/19/2009 | 9:34 | 9:39 | 12.46 | 9.10 | 7.14 | 0.936 | -37.8 | 4.37 | 0.0 | |
| | 6/24/2009 | 12:48 | 12:53 | 12.93 | 10.67 | 6.44 | 0.286 | -77.6 | 0.38 | 15.9 | |
| | 7/30/2009 | 9:40 | 9:45 | 13.81 | 11.19 | 6.64 | 0.215 | -65.5 | 0.91 | 2.4 | |
| | 8/28/2009 | 10:03 | 10:08 | 14.40 | 11.93 | 6.35 | 0.237 | -61.2 | 6.16 | 1.7 | |
| | 9/16/2009 | 9:25 | 9:30 | 14.19 | 11.89 | 6.41 | 0.266 | 46.6 | 0.75 | 1.7 | |
| | 10/13/2009 | 9:45 | 9:50 | 15.17 | 11.39 | 6.95 | 2.055 | -65.1 | 1.35 | 0.1 | |
| | 11/11/2009 | 9:57 | 10:02 | 15.24 | 11.74 | 6.76 | 1.098 | -120.1 | 11.61 | 0.3 | |
| | 12/16/2009 | 11:50 | 11:55 | 15.39 | 11.37 | 7.14 | 1.287 | -19.0 | 4.81 | 0.90 | |
| | 1/15/2010 | 9:30 | 9:35 | 15.64 | 10.60 | 6.56 | 0.188 | 52.4 | 3.14 | 4.0 | |
| | 2/10/2010 | 15:37 | 15:42 | 15.08 | 10.10 | 6.46 | 0.334 | -15.1 | 1.43 | 1.2 | |
| | 3/9/2010 | 13:43 | 13:48 | 15.76 | 10.09 | 6.36 | 0.204 | -25.8 | 1.43 | 2.4 | |
| | 4/13/2010 | 14:42 | 14:47 | 15.04 | 9.57 | 6.33 | 0.205 | 90.3 | 1.40 | 2.1 | |
| | 5/11/2010 | 14:16 | 14:21 | 15.51 | 9.37 | 6.33 | 0.232 | -57.0 | 0.59 | 4.9 | |
| | 6/15/2010 | 14:24 | 14:29 | 15.85 | 10.63 | 6.41 | 0.351 | -54.1 | 0.79 | 4.6 | |
| | 7/13/2010 | 14:38 | 14:43 | 15.77 | 10.73 | 6.84 | 1.062 | 131.2 | 12.02 | 14.9 | |
| | 8/10/2010 | 11:23 | 11:28 | 15.26 | 11.64 | 6.66 | 0.205 | 46.6 | 0.88 | 7.9 | |
| | 9/14/2010 | 11:03 | 11:08 | 15.87 | 12.68 | 6.20 | 0.234 | -83.3 | 1.24 | 18.0 | |
| | 10/12/2010 | 13:52 | 13:57 | 14.26 | 13.29 | 6.94 | 1.313 | 7.0 | 3.31 | 36.4 | |
| | 11/15/2010 | 11:33 | 11:38 | 14.58 | 13.35 | 6.17 | 0.155 | -92.8 | 0.74 | 28.2 | |
| | 12/15/2010 | 9:54 | 9:59 | 13.65 | 12.31 | 6.14 | 0.538 | -195.5 | 0.02 | 19.3 | |
| | 1/14/2011 | 9:26 | 9:31 | 14.03 | 11.63 | 6.36 | 0.224 | -123.2 | 0.95 | 10.7 | |

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

**TABLE 3-4**
**SUMMARY OF DO/ORP/PID DATA**
**AREA 1595 Nutrient YSI**

| Monitoring Well | Date | Start Time | End Time | DTW | Temp | pH | Conductivity | ORP (mV) | DO | PID (ppm) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1595-1-1A | 1/14/2011 | 12:17 | 12:22 | 2.53 | 10.08 | 7.42 | 1.709 | 141.9 | 9.34 | 0.0 | |
| 1595-1-2A | 1/14/2011 | 11:57 | 12:02 | 6.17 | 10.79 | 7.32 | 0.901 | 118.2 | 13.41 | 0.1 | |
| 1595-1-3A | 1/14/2011 | 11:45 | 11:50 | 5.03 | 11.19 | 7.49 | 1.714 | 109.1 | 13.52 | 0.1 | |
| 1595-1-4A | 1/14/2011 | 11:37 | 11:42 | 7.13 | 11.80 | 6.78 | 2.957 | 123.0 | 9.61 | 0.2 | |
| 1595-1-5A | 1/14/2011 | 11:30 | 11:35 | 12.77 | 12.01 | 7.27 | 1.352 | 95.2 | 9.98 | 0.2 | |
| 1595-2-1A | 1/14/2011 | 11:16 | 11:21 | 5.04 | 10.65 | 7.42 | 0.933 | 98.5 | 12.27 | 0.1 | |
| 1595-2-2A | 1/14/2011 | 11:08 | 11:13 | 6.94 | 10.70 | 7.95 | 0.932 | 73.1 | 13.06 | 0.3 | |
| 1595-2-3A | 1/14/2011 | 11:22 | 11:27 | 7.39 | 10.33 | 6.86 | 2.676 | 121.8 | 8.04 | 0.1 | |
| 1595-2-4A | 1/14/2011 | 11:01 | 11:06 | 6.19 | 10.56 | 7.30 | 2.209 | 96.9 | 10.62 | 0.1 | |
| 1595-2-5A | 1/14/2011 | 10:53 | 10:58 | 6.23 | 8.99 | 7.05 | 1.420 | 90.0 | 5.20 | 0.4 | |
| 1596-2-6A | 1/14/2011 | 10:34 | 10:39 | 2.63 | 9.59 | 7.18 | 1.207 | 79.1 | 7.69 | 0.0 | |
| 1595-3-1A | 1/14/2011 | 10:21 | 10:25 | 7.49 | 9.77 | 7.48 | 0.779 | 101.2 | 4.27 | 0.0 | |
| 1595-3-2A | 1/14/2011 | 10:27 | 10:32 | 9.64 | 11.86 | 7.86 | 0.914 | 67.2 | 12.98 | 0.0 | |
| 1595-3-3A | 1/14/2011 | 9:42 | 9:47 | 10.05 | 10.97 | 7.07 | 1.595 | 3.7 | 6.18 | 0.0 | |
| 1595-3-4A | 1/14/2011 | 9:38 | 9:43 | 10.77 | 10.12 | 7.33 | 2.011 | -39.7 | 13.54 | 0.0 | |
| 1595-4-1A | 1/14/2011 | 10:03 | 10:08 | 9.97 | 11.26 | 8.00 | 0.693 | 38.5 | 12.98 | 0.0 | |
| 1595-4-2A | 1/14/2011 | 9:56 | 10:01 | 6.68 | 11.46 | 7.83 | 1.743 | 12.2 | 13.67 | 0.0 | |
| 1595-4-3A | 1/14/2011 | 10:11 | 10:16 | 8.53 | 11.68 | 7.57 | 2.934 | 60.1 | 9.93 | 0.1 | |
| 1595-4-4A | 1/14/2011 | 9:11 | 9:16 | 9.21 | 11.51 | 7.67 | 1.093 | 55.3 | 8.94 | 0.0 | |
| 1595-4-5a | 1/14/2011 | 9:18 | 9:23 | 8.86 | 11.87 | 7.49 | 1.005 | 66.3 | 10.68 | 0.1 | |
| 1595-4-6A | 1/14/2011 | 8:54 | 8:59 | 10.28 | 11.28 | 7.18 | 2.112 | 75.7 | 9.02 | 0.1 | |
| 1595-4-7A | 1/14/2011 | 9:02 | 9:07 | 10.78 | 11.45 | 7.69 | 0.591 | 49.8 | 9.97 | 0.1 | |
| 1595-5-1A | 1/14/2011 | 8:10 | 8:15 | 10.54 | 12.00 | 7.43 | 1.274 | 10.7 | 10.56 | 0.1 | |
| 1595-5-2A | 1/14/2011 | 8:03 | 8:08 | 11.07 | 12.14 | 7.41 | 0.933 | -35.9 | 10.92 | 0.0 | |
| 1595-3A | 1/14/2011 | 7:45 | 7:50 | 10.91 | 12.11 | 7.49 | 4.743 | 170.6 | 11.75 | 0.0 | |
| 1595-5-4A | 1/14/2011 | 7:35 | 7:40 | 11.07 | 10.23 | 7.38 | 1.856 | 155.8 | 10.85 | 0.0 | |
| 1595-6-1A | 1/14/2011 | 7:04 | 7:09 | 10.21 | 11.90 | 7.62 | 0.758 | 118.2 | 12.83 | 0.1 | |
| 1595-6-2A | 1/14/2011 | 6:56 | 7:01 | 10.25 | 10.62 | 7.30 | 0.517 | 119.2 | 10.96 | 0.1 | |
| 1595-6-3A | 1/14/2011 | 7:11 | 7:16 | 10.31 | 11.81 | 6.81 | 0.447 | 137.9 | 12.10 | 0.1 | |
| 1595-6-4A | 1/14/2011 | 6:49 | 6:54 | 10.33 | 11.46 | 6.91 | 0.329 | 105.2 | 11.25 | 0.0 | |
| 1595-6-5A | 1/14/2011 | 7:18 | 7:23 | 10.46 | 11.24 | 7.46 | 0.495 | 134.5 | 11.14 | 0.1 | |
| 1595-6-6A | 1/14/2011 | 6:39 | 6:44 | 10.36 | 10.34 | 6.45 | 0.324 | 122.8 | 10.50 | 0.1 | |

**Notes:**
NR = Not Recorded
DTW = Depth to Water (feet)
Temp = Temperature (degrees Farenheit)
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) |
|---|---|---|---|
| **November** | 335.21 | 53.38 | 0.049 |
| **December** | 215.92 | 34.38 | 0.016 |
| **January** | 125.77 | 20.03 | 0.065 |
| **Quarter Total** | 676.90 | 107.79 | 0.13 |
| **Total to Date** | 7,042.32 | 1,121.39 | 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) |
|---|---|---|---|
| **November** | 0.00 | 0.00 | 0 |
| **December** | 0.00 | 0.00 | 0 |
| **January** | 0.00 | 0.00 | 0 |
| **Quarter Total** | 0.00 | 0.00 | 0 |
| **Total to Date** | 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 | November | December | January | Total/Average |
|---|---|---|---|---|
| **Gallons** | 0 | 0 | 0 | 0 |
| **Hours Operated** | 746 | 713 | 729 | 2,187 |
| **Days Operated** | 31 | 30 | 30 | 91 |
| **Average (gal/min)** | 0.000 | 0.000 | 0.000 | 0.000 |

***System B***

| Description | November | December | January | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1795-MW6 | 12/17/2008 | NR | NR | NR | NR | NR | NR | 158.30 | 5.38 | 0.00 | |
| | 1/13/2009 | 14:06 | 14:26 | 4.01 | 5.72 | 7.33 | 0.336 | 94.40 | 6.44 | 0.10 | |
| | 1/20/2009 | 14:37 | 14:43 | 4.22 | 5.64 | 7.20 | 0.321 | 83.70 | 4.71 | 0.00 | |
| | 2/3/2009 | 10:52 | 11:13 | 4.97 | 5.85 | 6.96 | 0.278 | 93.70 | 0.61 | 0.00 | |
| | 3/3/2009 | 15:33 | 15:54 | 3.71 | 5.15 | 7.08 | 0.246 | 8.20 | 4.68 | 0.00 | |
| | 3/26/2009 | 13:35 | 13:54 | 3.98 | 2.79 | 7.20 | 0.267 | 39.10 | 10.99 | 0.00 | |
| | 4/13/2009 | 16:01 | 16:06 | 3.58 | 4.70 | 7.61 | 0.378 | 221.60 | 13.86 | 0.00 | |
| | 5/18/2009 | 15:25 | 15:30 | 3.62 | 10.09 | 7.74 | 0.353 | 8.10 | 8.81 | 0.00 | |
| | 6/23/2009 | 14:35 | 14:40 | 4.74 | 12.25 | 7.36 | 0.384 | 18.50 | 0.83 | 0.00 | |
| | 7/30/2009 | 13:00 | 13:05 | 5.59 | 14.30 | 7.14 | 0.402 | 13.00 | 1.93 | 0.00 | |
| | 8/28/2009 | 11:31 | 11:36 | 6.80 | 14.39 | 6.77 | 0.392 | -68.80 | 10.77 | 0.00 | |
| | 9/16/2009 | 13:07 | 13:12 | 8.27 | 13.02 | 7.05 | 0.506 | 23.80 | 1.37 | 0.0 | |
| | 10/13/2009 | 13:06 | 13:11 | 9.04 | 11.79 | 6.83 | 1.464 | 53.30 | 1.55 | 0.0 | |
| | 11/11/2009 | 14:16 | 14:21 | 9.12 | 10.97 | 6.79 | 1.032 | 45.00 | 7.55 | 0.2 | |
| | 12/16/2009 | 10:37 | 10:42 | 9.45 | 9.18 | 6.94 | 1.124 | 24.00 | 3.06 | 0.1 | |
| | 1/13/2010 | 10:07 | 10:12 | 9.91 | 7.86 | 7.24 | 1.064 | -15.10 | 3.96 | 0.0 | |
| | 2/8/2010 | 12:50 | 12:55 | 9.03 | 5.22 | 7.03 | 0.471 | -21.40 | 12.81 | 0.0 | |
| | 3/8/2010 | 14:09 | 14:14 | 9.82 | 6.31 | 6.80 | 0.550 | 59.30 | 11.96 | 0.0 | |
| | 4/12/2010 | 15:04 | 15:09 | 9.45 | 6.57 | 6.71 | 0.394 | 45.90 | 10.34 | 0.0 | |
| | 5/10/2010 | 15:00 | 15:05 | 10.09 | 7.20 | 7.02 | 0.472 | 24.60 | 8.72 | 0.0 | |
| | 6/14/2010 | 14:37 | 14:42 | 10.52 | 8.72 | 6.68 | 0.402 | 12.80 | 6.09 | 0.0 | |
| | 7/13/2010 | 13:08 | 13:13 | 10.58 | 9.57 | 7.16 | 0.370 | 53.70 | 6.60 | 0.0 | |
| | 8/11/2010 | 14:57 | 15:02 | 14.71 | 10.86 | 6.79 | 0.081 | 133.00 | 7.55 | 0.0 | |
| | 9/15/2010 | 12:20 | 12:25 | 10.81 | 11.63 | 7.01 | 0.630 | 65.40 | 9.79 | 0.0 | |
| | 10/11/2010 | 14:10 | 14:15 | 8.87 | 12.96 | 6.80 | 0.331 | 83.70 | 7.66 | 0.0 | |
| | 11/15/2010 | 13:35 | 13:40 | 9.73 | 11.31 | 6.34 | 0.492 | 137.70 | 6.58 | 0.0 | |
| | 12/13/2010 | 14:22 | 14:27 | 9.31 | 11.24 | 6.44 | 0.509 | -128.60 | 7.30 | 0.0 | |
| | 1/18/2011 | 9:08 | 9:13 | 9.56 | 7.46 | 7.29 | 0.369 | -36.30 | 8.33 | 0.0 | |
| | | | | | | | | | | | |
| 1795-MW38 | 12/17/2008 | NR | NR | NR | NR | NR | NR | 76.90 | 10.11 | 0.00 | |
| | 1/13/2009 | 11:45 | 12:23 | 4.15 | 5.22 | 7.01 | 0.343 | 78.50 | 0.96 | 1.50 | |
| | 1/20/2009 | 14:50 | 15:00 | 4.83 | 5.03 | 7.17 | 0.333 | 67.90 | 0.56 | 0.80 | |
| | 2/3/2009 | 15:28 | 15:50 | 5.38 | 7.02 | 7.36 | 0.239 | 124.40 | 0.10 | 754.00 | |
| | 3/3/2009 | 16:05 | 16:22 | 4.71 | 3.81 | 7.33 | 0.137 | 23.10 | 9.68 | 0.00 | Well bubbling |
| | 3/26/2009 | 14:07 | 14:32 | 4.54 | 1.74 | 7.78 | 0.183 | 15.10 | 8.88 | 0.00 | Well bubbling |
| | 4/13/2009 | 15:42 | 15:47 | 3.89 | 4.73 | 7.61 | 0.282 | 205.30 | 11.87 | 0.00 | |
| | 5/18/2009 | 15:47 | 15:52 | 4.11 | 9.15 | 7.82 | 0.266 | 137.30 | 11.19 | 0.00 | |
| | 6/23/2009 | 15:07 | 15:12 | 4.72 | 13.14 | 7.97 | 0.252 | 42.10 | 9.71 | 0.00 | Well bubbling |
| | 7/30/2009 | 13:30 | 13:35 | 5.33 | 16.34 | 7.39 | 0.263 | 7.70 | 8.17 | 0.00 | |
| | 8/28/2009 | 10:57 | 11:02 | 10.31 | 15.40 | 6.63 | 0.445 | 129.70 | 3.03 | 44.80 | |
| | 9/16/2009 | 10:55 | 11:00 | 10.92 | 15.49 | 7.12 | 0.466 | 43.00 | 1.66 | 1,082.0 | |
| | 10/13/2009 | 10:50 | 10:55 | 10.77 | 13.89 | 7.02 | 0.746 | 47.20 | 5.75 | 1,132.0 | |
| | 11/11/2009 | 12:52 | 12:57 | 10.77 | 13.71 | 6.94 | 1.400 | 92.10 | 11.95 | 653.0 | |
| | 12/16/2009 | 10:48 | 10:53 | 11.06 | 11.11 | 7.07 | 1.304 | 25.80 | 8.30 | 723.7 | |
| | 1/13/2010 | 10:52 | 10:57 | 11.28 | 10.46 | 7.19 | 2.050 | 34.10 | 6.45 | 471.4 | |
| | 2/8/2010 | 10:46 | 10:51 | 11.25 | 7.68 | 7.02 | 0.357 | -16.40 | 1.36 | 337.2 | |
| | 3/8/2010 | 13:03 | 13:08 | 11.24 | 8.24 | 6.97 | 0.587 | 61.10 | 1.38 | 334.6 | |
| | 4/12/2010 | 13:35 | 13:40 | 11.16 | 8.17 | 7.17 | 0.586 | 15.90 | 1.80 | 302.6 | |
| | 5/10/2010 | 12:55 | 13:00 | 11.42 | 8.65 | 7.05 | 1.143 | 50.50 | 4.90 | 314.6 | |
| | 6/15/2010 | 13:04 | 13:09 | 11.46 | 10.47 | 6.47 | 2.748 | 31.50 | 8.26 | 326.4 | |
| | 7/13/2010 | 11:43 | 11:48 | 11.41 | 11.09 | 6.69 | 2.647 | 163.10 | 11.61 | 606.3 | |
| | 8/11/2010 | 15:33 | 15:38 | 11.48 | 12.57 | 6.92 | 1.136 | 15.80 | 6.37 | 176.5 | |
| | 9/14/2010 | 12:29 | 12:34 | 11.45 | 13.08 | 7.14 | 0.797 | 77.20 | 11.52 | 133.8 | |
| | 10/11/2010 | 12:54 | 12:59 | 10.82 | 14.85 | 6.99 | 0.554 | 56.80 | 1.13 | 278.3 | |
| | 11/15/2010 | 13:45 | 13:50 | 11.23 | 13.23 | 6.69 | 0.661 | 111.70 | 2.45 | 142.8 | |
| | 12/13/2010 | 14:00 | 14:05 | 10.82 | 11.31 | 6.57 | 3.175 | -119.20 | 0.14 | 60.5 | |
| | 1/18/2011 | 8:33 | 8:38 | 11.28 | 10.47 | 6.92 | 2.824 | 125.40 | 5.65 | 68.4 | |
| | | | | | | | | | | | |
| 1795-MWS11 | 12/17/2008 | NR | NR | 11.02 | NR | NR | NR | NR | NR | 0.00 | Sheen |
| | 1/13/2009 | 13:15 | 13:43 | 10.08 | 11.20 | 6.75 | 0.335 | -55.80 | 0.03 | 0.00 | |
| | 1/20/2009 | 14:00 | 14:13 | 9.56 | 11.36 | 7.83 | 0.381 | -13.20 | 0.01 | 0.00 | |
| | 2/3/2009 | 10:14 | 10:39 | 11.91 | 9.54 | 6.48 | 0.204 | 117.60 | 0.39 | 0.00 | |
| | 3/3/2009 | 14:50 | 15:19 | 10.84 | 8.23 | 6.78 | 0.167 | -30.20 | 0.75 | 6.50 | |
| | 3/26/2009 | 13:15 | 13:33 | 10.85 | 7.87 | 7.50 | 0.263 | -96.90 | 0.87 | 0.00 | |
| | 4/13/2009 | 16:12 | 16:17 | 10.34 | 7.16 | 7.25 | 0.503 | 11.90 | 5.54 | 97.70 | |
| | 5/18/2009 | 15:13 | 15:18 | 10.80 | 8.65 | 6.88 | 0.313 | 21.30 | 2.59 | 32.10 | |
| | 6/23/2009 | 13:32 | 13:37 | 11.23 | 11.20 | 5.89 | 0.315 | 109.50 | 3.08 | 1.30 | |
| | 7/30/2009 | 12:03 | 12:08 | 12.16 | 12.90 | 6.91 | 0.218 | 82.30 | 3.45 | 0.70 | |
| | 8/28/2009 | 12:44 | 12:49 | 13.40 | 11.40 | 6.00 | 0.392 | 29.40 | 1.36 | 0.00 | |
| | 9/16/2009 | 11:17 | 11:22 | 14.14 | 12.26 | 6.94 | 0.445 | 2.80 | 1.67 | 0.0 | |
| | 10/13/2009 | 11:17 | 11:22 | 14.74 | 11.64 | 6.79 | 0.416 | -52.70 | 1.80 | 0.0 | |
| | 11/11/2009 | 13:17 | 13:22 | 14.74 | 11.85 | 6.67 | 0.414 | -49.20 | 1.15 | 0.3 | |
| | 12/16/2009 | 9:47 | 9:52 | 15.06 | 10.41 | 6.74 | 0.357 | 39.50 | 2.69 | 0.8 | |
| | 1/13/2010 | 9:17 | 9:22 | 15.53 | 9.65 | 6.57 | 0.338 | 56.20 | 1.92 | 0.2 | |
| | 2/8/2010 | 11:13 | 11:18 | 14.96 | 9.91 | 7.10 | 0.212 | -46.30 | 2.44 | 0.2 | |
| | 3/8/2010 | 13:37 | 13:42 | 15.51 | 9.65 | 6.75 | 0.216 | 3.70 | 4.42 | 0.0 | |

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

| Monitoring Well | Date | Start Time | End Time | DTW | Temp | pH | Conductivity | ORP (mV) | DO | PID (ppm) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4/12/2010 | 14:04 | 14:09 | 14.83 | 9.21 | 6.50 | 0.188 | 32.40 | 4.33 | 0.0 | |
| | 5/10/2010 | 13:36 | 13:41 | 15.46 | 9.24 | 6.77 | 0.225 | 10.00 | 5.84 | 0.0 | |
| | 6/15/2010 | 13:36 | 13:41 | 15.94 | 10.55 | 6.57 | 0.179 | 32.70 | 3.92 | 0.0 | |
| | 7/13/2010 | 12:21 | 12:26 | 15.89 | 11.64 | 6.37 | 0.168 | 70.40 | 1.17 | 0.1 | |
| | 8/11/2010 | 14:43 | 14:48 | 15.84 | 12.16 | 6.46 | 0.162 | 132.30 | 6.14 | 0.0 | |
| | 9/15/2010 | 11:55 | 12:00 | 15.84 | 11.96 | 5.95 | 0.147 | 83.20 | 3.94 | 0.0 | |
| | 10/11/2010 | 13:16 | 13:21 | 15.21 | 12.33 | 6.89 | 0.197 | -21.50 | 0.49 | 0.0 | |
| | 11/15/2010 | 12:41 | 12:46 | 15.37 | 12.38 | 5,52 | 0.144 | 185.40 | 8.23 | 0.0 | |
| | 12/13/2010 | 13:25 | 13:30 | 14.63 | 10.88 | 6.41 | 0.159 | -112.80 | 1.82 | 0.0 | |
| | 1/18/2011 | 7:57 | 8:02 | 14.61 | 10.23 | 6.73 | 0.240 | 116.00 | 3.34 | 0.0 | |
| | | | | | | | | | | | |
| 1795-MWS16 | 12/17/2008 | NR | NR | NR | NR | NR | NR | 233.80 | 12.04 | 0.00 | |
| | 1/13/2009 | 12:58 | 13:34 | 14.45 | 6.73 | 7.18 | 0.002 | 187.20 | 12.80 | 0.00 | |
| | 1/20/2009 | 13:38 | 13:53 | 14.56 | 7.89 | 6.21 | 0.013 | 198.10 | 11.37 | 0.00 | |
| | 2/3/2009 | 10:23 | 10:44 | 15.34 | 8.82 | 6.08 | 0.540 | 131.20 | 0.25 | 0.00 | |
| | 3/3/2009 | 14:58 | 15:22 | 15.25 | 7.88 | 6.14 | 0.030 | 124.50 | 11.45 | 0.00 | |
| | 3/26/2009 | 12:44 | 13:16 | 14.59 | 6.87 | 6.58 | 0.041 | 78.50 | 12.25 | 0.00 | |
| | 4/13/2009 | 16:21 | 16:26 | 14.46 | 6.84 | 7.76 | 0.117 | 201.00 | 13.63 | 0.00 | |
| | 5/18/2009 | 15:02 | 15:07 | 14.92 | 7.53 | 7.09 | 0.055 | 172.90 | 12.65 | 0.00 | |
| | 6/23/2009 | 13:46 | 13:51 | 15.11 | 10.34 | 6.48 | 0.074 | 207.00 | 13.26 | 0.00 | |
| | 7/30/2009 | 12:16 | 12:21 | 16.23 | 10.13 | 7.00 | 0.055 | 92.90 | 8.34 | 98.20 | |
| | 8/28/2009 | 12:31 | 12:36 | 17.21 | 10.11 | 6.21 | 0.079 | 162.10 | 14.82 | 230.60 | |
| | 9/16/2009 | 11:27 | 11:32 | 17.84 | 10.51 | 7.19 | 0.088 | 9.60 | 9.00 | 85.4 | |
| | 10/13/2009 | 11:32 | 11:37 | 18.64 | 10.68 | 6.89 | 0.067 | 48.10 | 9.73 | 0.0 | |
| | 11/11/2009 | 13:29 | 13:34 | 19.01 | 11.13 | 6.81 | 0.060 | 20.80 | 10.03 | 0.5 | |
| | 12/16/2009 | 9:58 | 10:03 | 19.13 | 10.06 | 7.49 | 0.059 | -0.90 | 11.55 | 0.4 | |
| | 1/13/2010 | 9:00 | 9:05 | 19.34 | 8.65 | 6.88 | 0.073 | 18.30 | 10.39 | 0.7 | |
| | 2/8/2010 | 11:24 | 11;29 | 18.83 | 8.85 | 7.20 | 0.051 | -35.00 | 11.03 | 0.0 | |
| | 3/8/2010 | 13:52 | 13:57 | 19.36 | 8.97 | 6.44 | 0.068 | 65.20 | 12.45 | 0.0 | |
| | 4/12/2010 | 14:20 | 14:25 | 18.39 | 9.43 | 6.81 | 0.051 | 28.30 | 12.79 | 0.0 | |
| | 5/10/2010 | 13:55 | 14:00 | 18.89 | 8.46 | 6.72 | 0.070 | 39.60 | 11.52 | 30.1 | |
| | 6/14/2010 | 13:48 | 13:53 | 19.58 | 9.59 | 6.31 | 0.066 | 18.80 | 12.85 | 36.7 | |
| | 7/13/2010 | 12:31 | 12:36 | 19.91 | 10.21 | 6.49 | 0.057 | 105.70 | 11.58 | 7.2 | |
| | 8/11/2010 | 14:32 | 14:37 | 20.01 | 10.82 | 6.92 | 0.075 | 61.00 | 24.36 | 33.7 | Only well that had a high DO |
| | 9/15/2010 | 11:45 | 11:50 | 20.26 | 9.98 | 6.83 | 0.068 | 77.60 | 10.48 | 1.2 | |
| | 10/11/2010 | 13:31 | 13:36 | 19.64 | 11.30 | 6.05 | 0.110 | 96.90 | 6.88 | 28.1 | |
| | 11/15/2010 | 12:30 | 12:35 | 19.06 | 11.51 | 6.40 | 0.051 | 109.40 | 10.01 | 9.6 | |
| | 12/13/2010 | 13:39 | 13:44 | 18.60 | 10.46 | 6.64 | 0.055 | -96.70 | 6.61 | 0.0 | |
| | 1/18/2011 | 7;47 | 7;52 | 18.07 | 9.06 | 7.12 | 0.118 | 76.80 | 10.66 | 0.0 | |
| | | | | | | | | | | | |
| 1795-MWS3 | 12/17/2008 | NR | NR | NR | NR | NR | NR | 192.70 | 8.38 | 1.60 | |
| | 1/13/2009 | 12:35 | 13:11 | 9.85 | 7.95 | 5.75 | 0.153 | 78.60 | 0.06 | 0.80 | |
| | 1/20/2009 | 13:10 | 13:26 | 10.15 | 6.53 | 6.12 | 0.136 | 87.10 | 2.60 | 2.30 | |
| | 2/3/2009 | 10:00 | 10:18 | 10.64 | 7.47 | 5.60 | 0.106 | 148.10 | 0.06 | 0.00 | |
| | 3/3/2009 | 14:10 | 14:53 | 10.23 | 6.90 | 5.36 | 0.266 | 99.60 | 0.42 | 0.00 | |
| | 3/26/2009 | 12:22 | 12:39 | 9.85 | 5.59 | 6.10 | 0.337 | 129.70 | 0.83 | 0.00 | |
| | 4/13/2009 | 16:31 | 16:36 | 9.47 | 5.51 | 7.33 | 0.205 | 213.00 | 10.64 | 0.00 | |
| | 5/18/2009 | 14:49 | 14:54 | 10.02 | 6.83 | 6.33 | 0.152 | 192.10 | 5.59 | 0.00 | |
| | 6/23/2009 | 14:07 | 14:12 | 10.41 | 9.12 | 6.67 | 0.054 | 197.30 | 12.21 | 3.30 | |
| | 7/30/2009 | 12:28 | 12:33 | 11.44 | 10.20 | 6.72 | 0.050 | 140.20 | 9.14 | 0.80 | |
| | 8/28/2009 | 12:19 | 12:24 | 12.65 | 10.86 | 5.65 | 0.060 | 191.20 | 8.47 | 0.00 | |
| | 9/16/2009 | 11:40 | 11:45 | 13.28 | 10.47 | 5.60 | 0.137 | 95.90 | 1.71 | 0.0 | |
| | 10/13/2009 | 10:46 | 10:51 | 14.86 | 9.54 | 6.57 | 0.402 | -63.70 | 1.36 | 0.7 | |
| | 11/11/2009 | 13:40 | 13:45 | 14.21 | 10.02 | 6.53 | 0.431 | -86.50 | 1.57 | 0.4 | |
| | 12/16/2009 | 10:10 | 10:15 | 14.36 | 8.86 | 6.68 | 0.385 | 6.10 | 1.45 | 0.2 | |
| | 1/13/2010 | 8:40 | 8:45 | 14.74 | 7.96 | 6.71 | 0.549 | -30.40 | 3.50 | 0.4 | |
| | 2/8/2010 | 11:44 | 11:49 | 14.28 | 7.73 | 6.56 | 0.419 | -24.40 | 1.52 | 0.0 | |
| | 3/8/2010 | 14:58 | 15:03 | 14.84 | 7.08 | 6.16 | 0.394 | -15.90 | 2.30 | 0.0 | |
| | 4/12/2010 | 14:31 | 14:36 | 13.96 | 7.87 | 6.55 | 0.436 | 29.60 | 1.41 | 0.1 | |
| | 5/10/2010 | 14:11 | 14:16 | 14.47 | 7.46 | 6.69 | 0.420 | -70.40 | 4.27 | 0.3 | |
| | 6/14/2010 | 14:02 | 14:07 | 15.12 | 8.96 | 5.61 | 0.308 | -11.20 | 0.91 | 0.0 | |
| | 7/13/2010 | 12:44 | 12:49 | 15.29 | 9.90 | 6.31 | 0.343 | -26.40 | 1.17 | 0.1 | |
| | 8/11/2010 | 14:18 | 14:23 | 15.33 | 11.38 | 6.67 | 0.378 | -70.30 | 1.95 | 0.0 | |
| | 9/15/2010 | 11:35 | 11:40 | 15.61 | 10.89 | 6.31 | 0.302 | 87.10 | 7.88 | 0.0 | |
| | 10/11/2010 | 14:23 | 14:28 | 15.17 | 13.16 | 6.68 | 0.054 | 107.00 | 11.29 | 16.3 | |
| | 11/15/2010 | 12:20 | 12:25 | 15.66 | 10.67 | 5.90 | 0.152 | 68.20 | 4.36 | 0.0 | |
| | 12/13/2010 | 13:50 | 13:55 | 14.30 | 9.28 | 6.31 | 0.227 | -158.40 | 2.30 | 0.4 | |
| | 1/18/2011 | 7:32 | 7:37 | 13.64 | 8.05 | 6.74 | 0.220 | 61.40 | 4.27 | 0.0 | |
| | | | | | | | | | | | |
| 1795-MWS4 | 12/17/2008 | NR | NR | NR | NR | NR | NR | 279.20 | 10.54 | 0.00 | |
| | 1/13/2009 | 12:14 | 12:40 | 8.50 | 6.36 | 5.96 | 0.046 | 168.20 | 10.56 | 0.00 | |
| | 1/20/2009 | 12:33 | 13:00 | 8.73 | 5.86 | 5.99 | 0.030 | 110.20 | 0.02 | 0.00 | |
| | 2/3/2009 | 9:45 | 10:08 | 9.21 | 6.51 | 6.01 | 0.035 | 146.80 | 0.69 | 0.00 | |
| | 3/3/2009 | 14:00 | 14:26 | 8.45 | 5.04 | 5.63 | 0.027 | 222.70 | 7.91 | 0.00 | |
| | 3/26/2009 | 11:55 | 12:17 | 7.72 | 4.51 | 7.31 | 0.025 | 92.50 | 12.80 | 0.00 | |
| | 4/13/2009 | 18:12 | 18:17 | 7.28 | 4.88 | 6.51 | 0.030 | 195.10 | 12.76 | 0.00 | |

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5/18/2009 | 15:35 | 15:40 | 8.16 | 7.29 | 7.63 | 0.048 | 150.50 | 13.06 | 0.00 | |
| | 6/23/2009 | 14:21 | 14:26 | 9.77 | 9.85 | 6.41 | 0.034 | 222.90 | 9.91 | 0.00 | |
| | 7/30/2009 | 12:50 | 12:55 | 10.02 | 11.13 | 6.54 | 0.033 | 170.10 | 7.72 | 0.0 | |
| | 8/28/2009 | 11:44 | 11:49 | 11.06 | 11.63 | 5.76 | 0.035 | 160.80 | 12.56 | 0.00 | |
| | 9/16/2009 | 13:20 | 13:25 | 11.86 | 11.32 | 6.50 | 0.040 | 73.60 | 7.70 | 0.0 | |
| | 10/13/2009 | 13:16 | 13:21 | 12.64 | 9.57 | 6.24 | 0.039 | 148.10 | 7.52 | 0.0 | |
| | 11/11/2009 | 13:55 | 14:00 | 12.91 | 10.07 | 5.70 | 0.046 | 144.60 | 7.70 | 0.3 | |
| | 12/16/2009 | 10:23 | 10:28 | 13.13 | 8.60 | 6.22 | 0.032 | 53.00 | 10.40 | 0.8 | |
| | 1/13/2010 | 10:30 | 10:35 | 13.49 | 8.11 | 7.00 | 0.385 | 17.70 | 7.25 | 0.0 | |
| | 2/8/2010 | 13:06 | 13:11 | 12.91 | 6.27 | 6.93 | 0.032 | -26.10 | 10.16 | 0.0 | |
| | 3/8/2010 | 14:37 | 14:42 | 13.61 | 6.86 | 6.06 | 0.048 | 103.70 | 10.74 | 0.0 | |
| | 4/12/2010 | 14:50 | 14:55 | 12.58 | 8.73 | 7.18 | 0.028 | 67.90 | 12.18 | 0.0 | |
| | 5/10/2010 | 14:33 | 14:38 | 13.37 | 6.89 | 5.82 | 0.042 | 72.10 | 2.50 | 0.0 | |
| | 6/14/2010 | 14:20 | 14:25 | 14.03 | 8.66 | 5.83 | 0.052 | 31.90 | 8.07 | 0.0 | |
| | 7/13/2010 | 12:53 | 12:58 | 14.51 | 9.73 | 6.48 | 0.359 | 45.70 | 2.39 | 0.0 | |
| | 8/11/2010 | 15:10 | 15:15 | 10.87 | 11.76 | 6.96 | 0.787 | 40.60 | 8.90 | 0.0 | |
| | 9/15/2010 | 12:10 | 12:15 | 14.93 | 9.64 | 6.65 | 0.962 | 73.10 | 2.85 | 0.0 | |
| | 10/11/2010 | 13:54 | 13:59 | 14.18 | 11.67 | 5.89 | 0.970 | 135.60 | 11.60 | 0.0 | |
| | 11/15/2010 | 12:52 | 12:57 | 13.51 | 10.65 | 5.75 | 0.034 | 189.90 | 10.03 | 0.0 | |
| | 12/13/2010 | 14:31 | 14:36 | 12.74 | 10.44 | 5.97 | 0.071 | -143.60 | 8.64 | 0.0 | |
| | 1/18/2011 | 8:09 | 8:14 | 12.73 | 7.41 | 6.93 | 0.195 | 152.50 | 11.48 | 0.0 | |
| | | | | | | | | | | | |
| 1795-MWS7 | 12/17/2008 | NR | NR | NR | NR | NR | NR | -79.90 | 3.44 | 95.70 | |
| | 1/13/2009 | 14:03 | 14:32 | 6.40 | 10.14 | 6.67 | 1.698 | -80.30 | 0.01 | 14.20 | |
| | 1/20/2009 | 14:20 | 14:35 | 7.03 | 9.76 | 6.58 | 0.734 | -42.30 | 13.05 | 0.30 | |
| | 2/3/2009 | 11:03 | 11:28 | 5.37 | 6.05 | 6.29 | 0.168 | 126.50 | 0.06 | 0.00 | |
| | 3/3/2009 | 15:29 | 15:51 | 6.80 | 5.78 | 6.74 | 1.659 | -80.20 | 1.87 | 106.00 | |
| | 3/26/2009 | 13:40 | 13:57 | 7.98 | 5.18 | 7.21 | 1.633 | -85.00 | 2.19 | 83.60 | |
| | 4/13/2009 | 15:51 | 15:56 | 6.45 | 6.38 | 6.99 | 2.378 | -16.80 | 6.58 | 109.00 | |
| | 5/18/2009 | 15:57 | 16:02 | 6.61 | 11.11 | 7.22 | 3.325 | -39.80 | 0.82 | 40.80 | |
| | 6/23/2009 | 14:55 | 15:00 | 7.36 | 14.17 | 7.49 | 3.290 | -98.70 | 0.61 | 266.00 | |
| | 7/30/2009 | 13:17 | 13:22 | 8.11 | 16.04 | 6.73 | 3.727 | -90.70 | 0.96 | 26.80 | |
| | 8/28/2009 | 11:19 | 11:24 | 10.50 | 17.10 | 6.67 | 2.020 | -95.50 | 0.67 | 24.80 | |
| | 9/16/2009 | 11:06 | 11:11 | 11.89 | 15.78 | 7.21 | 2.508 | 2.10 | 0.63 | 3.4 | |
| | 10/13/2009 | 11:06 | 11:11 | 11.98 | 14.90 | 7.02 | 2.873 | -110.70 | 0.68 | 51.3 | |
| | 11/11/2009 | 13:06 | 13:11 | 12.01 | 14.51 | 7.05 | 1.847 | -124.70 | 8.05 | 1,452.0 | |
| | 12/16/2009 | 9:35 | 9:40 | 12.57 | 12.51 | 7.15 | 1.098 | 54.10 | 1.42 | 996.2 | |
| | 1/13/2010 | 9:47 | 9:52 | 13.08 | 10.10 | 7.07 | 3.031 | -39.70 | 0.34 | 1,852.1 | |
| | 2/8/2010 | 11:00 | 11:05 | 12.58 | 9.75 | 6.77 | 0.750 | -36.40 | 1.20 | 779.40 | |
| | 3/8/2010 | 13:20 | 13:25 | 12.61 | 9.58 | 6.67 | 1.045 | -57.90 | 1.33 | 731.7 | |
| | 4/12/2010 | 13:48 | 13:53 | 12.64 | 9.46 | 6.71 | 1.318 | 17.50 | 1.79 | 700.2 | |
| | 5/10/2010 | 13:11 | 13:16 | 13.26 | 9.80 | 6.73 | 3.640 | -86.50 | 0.52 | 942.2 | |
| | 6/15/2010 | 13:24 | 13:29 | 13.46 | 13.03 | 6.29 | 3.340 | -21.20 | 0.80 | 892.2 | |
| | 7/13/2010 | 12:10 | 12:15 | 13.41 | 13.53 | 6.79 | 8.150 | -66.00 | 2.12 | 4,573.0 | |
| | 8/11/2010 | 15:21 | 15:26 | 13.55 | 15.44 | 6.51 | 2.990 | 36.80 | 2.13 | 21.7 | leg 2 was hooked up |
| | 9/15/2010 | 12:37 | 12:42 | 13.29 | 13.96 | 6.69 | 3.110 | 73.30 | 5.85 | 12.3 | |
| | 10/11/2010 | 13:06 | 13:11 | 11.86 | 17.18 | 6.38 | 0.860 | -49.60 | 1.18 | 8.2 | |
| | 11/15/2010 | 13:54 | 13:59 | 12.83 | 15.07 | 6.39 | 0.966 | -92.80 | 0.07 | 301.8 | |
| | 12/13/2010 | 14:11 | 14:16 | 12.01 | 12.78 | 6.69 | 0.900 | -208.00 | 0.03 | 450.3 | |
| | 1/18/2011 | 8:42 | 8:47 | 12.85 | 10.50 | 6.70 | 0.641 | -103.10 | 0.99 | 1.8 | |

**Notes:**
NR = Not Recorded
DTW = Depth to Water (feet)
Temp = Temperature (degrees Farenheit)
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) |
|---|---|---|---|
| **November** | 0.00 | 0.00 | 0 |
| **December** | 0.00 | 0.00 | 0 |
| **January** | 0.00 | 0.00 | 0 |
| **Quarter Total** | 0.00 | 0.00 | 0 |
| **Total to Date** | 16,143.22 | 2,570.58 | <1 |

***System B***

| Monitoring Date | Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb) | Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal) | LNAPL Recovery (gal) |
|---|---|---|---|
| **November** | 0.00 | 0.00 | 0.206 |
| **December** | 0.00 | 0.00 | 0.047 |
| **January** | 0.00 | 0.00 | 0.384 |
| **Quarter Total** | 0.00 | 0.00 | 0.637 |
| **Total to Date** | 14,191.01 | 2,259.71 | 22.37 |

***System C***

| Monitoring Date | Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb) | Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal) | LNAPL Recovery (gal) |
|---|---|---|---|
| **November** | 0.21 | 0.03 | 0 |
| **December** | 0.02 | 0.00 | 0 |
| **January** | 0.94 | 0.15 | 0 |
| **Quarter Total** | 1.17 | 0.19 | 0 |
| **Total to Date** | 4,054.99 | 645.70 | 2 |

***System D***

| Monitoring Date | Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb) | Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal) | LNAPL Recovery (gal) |
|---|---|---|---|
| **November** | 0.00 | 0.00 | 0 |
| **December** | 0.00 | 0.00 | 0 |
| **January** | 0.00 | 0.00 | 0 |
| **Quarter Total** | 0.00 | 0.00 | 0 |
| **Total to Date** | 1,161.00 | 184.87 | <1 |

Note: Area 3805A System shut down as of April 8, 2009. SVE system operated on 1/4/11 to process water from PCE Investigation.
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 | November | December | January | Total/Average |
|---|---|---|---|---|
| **Gallons** | 0 | 0 | 8,424 | 8,424 |
| **Hours Operated** | 0 | 0 | 26 | 26 |
| **Days Operated** | 0 | 0 | 1 | 1 |
| **Average (gal/min)** | NA | NA | 5.40 | 5.40 |

***System B***

| Description | November | December | January | 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 C***

| Description | November | December | January | Total/Average |
|---|---|---|---|---|
| **Gallons** | 0 | 168 | 4,235 | 4,403 |
| **Hours Operated** | 21 | 24 | 626 | 671 |
| **Days Operated** | 1 | 1 | 26 | 28 |
| **Average (gal/min)** | 0.00 | 0.12 | 0.11 | 0.11 |

***System D***

| Description | November | December | January | 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. SVE system operated on 1/4/11 to process water from PCE Invest.
Area 3805D System shut down as of August 6, 2008.

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

| Monitoring Well | Date | Start Time | End Time | DTW | Temp | pH | Conductivity | ORP (mV) | DO | PID (ppm) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Systems A & B*** | | | | | | | | | | | |
| 3805-MW16 | 12/19/2008 | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| | 1/12/2009 | 14:34 | 15:01 | 12.58 | 10.93 | 7.96 | 0.837 | 21.30 | 0.15 | 5.5 | |
| | 1/19/2009 | 13:10 | 13:30 | 19.90 | 10.63 | 8.15 | 0.850 | 32.70 | 3.65 | 4.4 | |
| | 2/4/2009 | 14:11 | 14:48 | 14.04 | 11.57 | 7.46 | 0.670 | 154.20 | 0.02 | 3.9 | |
| | 3/4/2009 | 15:33 | 16:03 | 13.87 | 11.19 | 7.70 | 0.575 | 31.40 | 4.64 | 0.0 | |
| | 3/27/2009 | 13:30 | 13:56 | 14.03 | 10.43 | 7.65 | 0.674 | -45.70 | 5.61 | 0.0 | |
| | 4/14/2009 | 12:37 | 13:02 | 13.83 | 9.48 | 7.85 | 0.884 | 177.20 | 3.23 | 0.0 | |
| | 5/18/2009 | 13:50 | 13:55 | 14.02 | 10.07 | 8.11 | 0.940 | 187.30 | 5.25 | 0.0 | |
| | 6/24/2009 | 11:27 | 11:32 | 13.53 | 11.47 | 7.36 | 0.789 | 136.80 | 3.62 | 1.0 | |
| | 7/29/2009 | 11:39 | 11:44 | 14.71 | 13.41 | 9.61 | 0.759 | 150.60 | 5.09 | 9.1 | |
| | 8/27/2009 | 13:20 | 13:25 | 15.20 | 13.17 | 8.46 | 0.808 | 41.60 | 4.06 | 1.1 | |
| | 9/15/2009 | 13:50 | 13:55 | 15.73 | 13.14 | 9.57 | 0.757 | -61.20 | 0.55 | 0.1 | |
| | 10/12/2009 | 11:34 | 11:39 | 15.99 | 13.38 | 8.92 | 0.911 | 33.40 | 2.06 | 1.4 | |
| | 11/12/2009 | 13:53 | 13:58 | 16.86 | 13.55 | 9.51 | 0.878 | 14.90 | 4.29 | 0.4 | |
| | 12/15/2009 | 13:21 | 13:26 | 17.49 | 12.57 | 10.31 | 0.701 | 105.90 | 6.08 | 0.2 | |
| | 1/12/2010 | 11:26 | 11:31 | 17.64 | 11.70 | 8.09 | 0.967 | 143.30 | 5.53 | 52.3 | |
| | 2/9/2010 | 11:44 | 11:49 | 17.61 | 11.29 | 7.49 | 0.615 | 97.00 | 3.12 | 216.4 | |
| | 3/9/2010 | 11:11 | 11:16 | 18.38 | 11.36 | 7.60 | 0.684 | 83.80 | 4.98 | 2.8 | |
| | 4/13/2010 | 12:51 | 12:56 | 17.83 | 12.11 | 7.61 | 0.704 | -209.10 | 6.23 | 56.2 | |
| | 5/11/2010 | 11:26 | 11:31 | 18.46 | 10.88 | 7.55 | 0.756 | 28.40 | 2.98 | 3.50 | |
| | 6/15/2010 | 11:50 | 11:55 | 18.83 | 11.60 | 7.21 | 7.130 | -46.80 | 52.00 | 0.8 | |
| | 7/13/2010 | 8:54 | 8:59 | 18.97 | 12.14 | 7.49 | 0.690 | -27.10 | 6.89 | 3.7 | |
| | 8/11/2010 | 10:44 | 10:49 | 18.67 | 13.80 | 7.50 | 0.700 | 4.60 | 4.04 | 0.2 | |
| | 9/15/2010 | 10:28 | 10:33 | 18.57 | 13.59 | 8.75 | 0.913 | 56.10 | 8.07 | 0.0 | |
| | 10/12/2010 | 11:37 | 11:42 | 17.18 | 14.49 | 8.56 | 0.709 | -96.60 | 8.81 | 0.0 | |
| | 11/16/2010 | 12:09 | 12:14 | 17.31 | 14.69 | 8.20 | 0.832 | 20.50 | 2.38 | 0.0 | |
| | 12/14/2010 | 12:18 | 12:23 | 16.76 | 13.48 | 8.64 | 0.816 | -158.50 | 1.73 | 0.0 | System Off |
| | 1/17/2011 | 9:46 | 9:51 | 16.84 | 12.18 | 7.78 | 0.885 | -22.90 | 5.92 | 0.0 | |
| | | | | | | | | | | | |
| 3805-MW41 | 12/19/2008 | NR | NR | NR | NR | NR | NR | 194.30 | 13.07 | 0.0 | |
| | 1/12/2009 | 9:30 | 8:50 | 12.72 | 10.43 | 7.18 | 0.935 | 164.50 | 0.78 | 0.0 | |
| | 1/19/2009 | 11:50 | 12:00 | 13.01 | 9.46 | 7.66 | 0.770 | 24.40 | 11.93 | 0.0 | |
| | 2/4/2009 | 9:14 | 9:40 | 13.78 | 10.20 | 7.05 | 0.639 | 113.40 | 0.77 | 0.0 | |
| | 3/4/2009 | 13:10 | 13:44 | 12.09 | 9.29 | 7.15 | 0.530 | 59.70 | 9.71 | 0.0 | |
| | 3/27/2009 | 11:00 | 11:30 | 13.22 | 8.61 | 7.29 | 0.517 | 16.00 | 11.40 | 0.0 | |
| | 4/14/2009 | 10:02 | 10:57 | 12.71 | 8.48 | 7.41 | 0.70 | 188.60 | 9.23 | 0.00 | |
| | 5/18/2009 | 12:12 | 12;17 | 12.74 | 8.66 | 7.58 | 0.54 | 182.70 | 13.34 | 0.00 | Well bubbling |
| | 6/24/2009 | 10:37 | 10:42 | 12.73 | 10.04 | 7.03 | 0.60 | 125.60 | 12.89 | 7.10 | |
| | 7/29/2009 | 11:53 | 11:58 | 13.23 | 11.48 | 9.09 | 0.648 | 136.60 | 10.27 | 3.70 | |
| | 8/27/2009 | 11:24 | 11:29 | 13.61 | 12.43 | 7.00 | 0.639 | 90.80 | 13.12 | 2.00 | |
| | 9/15/2009 | 11:55 | 12:00 | 15.38 | 12.73 | 7.32 | 0.551 | -31.30 | 12.06 | 0.00 | |
| | 10/12/2009 | 10:22 | 10:27 | 16.12 | 11.80 | 7.21 | 0.710 | 112.20 | 9.31 | 0.00 | |
| | 11/12/2009 | 13:10 | 13:15 | 16.63 | 12.03 | 7.08 | 0.642 | 91.30 | 10.40 | 0.00 | |
| | 12/15/2009 | 10:45 | 10:50 | 16.86 | 11.09 | 7.32 | 0.515 | -8.21 | 11.13 | 0.0 | |
| | 1/12/2010 | 11:42 | 11:47 | 17.21 | 10.65 | 7.22 | 0.819 | 157.70 | 9.61 | 0.00 | |
| | 2/9/2010 | 10:42 | 10:47 | 17.36 | 10.23 | 7.02 | 0.614 | 83.60 | 9.64 | 0.00 | |
| | 3/9/2010 | 10:16 | 10:21 | 17.21 | 10.02 | 6.89 | 0.655 | 65.90 | 9.98 | 0.00 | |
| | 4/13/2010 | 10:37 | 10:42 | 17.34 | 9.51 | 7.03 | 0.655 | 25.50 | 11.18 | 0.00 | |
| | 5/11/2010 | 10:03 | 10:08 | 17.48 | 9.15 | 6.98 | 0.601 | 55.70 | 4.43 | 0.40 | |
| | 6/15/2010 | 9:23 | 9:28 | 17.74 | 9.39 | 6.90 | 0.564 | -9.90 | 12.44 | 1.30 | |
| | 7/13/2010 | 7:48 | 7:53 | 17.83 | 9.67 | 6.96 | 0.485 | 51.60 | 11.62 | 1.70 | |
| | 8/11/2010 | 13:14 | 13:19 | 18.91 | 13.44 | 6.95 | 0.481 | 73.70 | 9.41 | 2.40 | |
| | 9/15/2010 | 9:16 | 9:21 | 17.85 | 11.15 | 7.12 | 0.503 | 61.90 | 11.40 | 0.00 | |
| | 10/12/2010 | 10:16 | 10:21 | 16.61 | 12.61 | 7.21 | 0.486 | 11.90 | 8.94 | 0.00 | |
| | 11/16/2010 | 11:05 | 11:10 | 17.05 | 12.72 | 6.92 | 0.048 | 105.90 | 9.09 | 0.00 | |
| | 12/14/2010 | 10:48 | 10:53 | 16.23 | 11.88 | 7.19 | 0.436 | -129.50 | 4.25 | 0.00 | System Off |
| | 1/17/2011 | 12:03 | 12:08 | 16.48 | 11.14 | 7.26 | 0.544 | -167.40 | 10.17 | 0.00 | |
| | | | | | | | | | | | |
| 3805-016 | 12/19/2008 | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| | 1/12/2009 | 14:29 | 14:57 | 12.81 | 11.09 | 6.98 | 0.408 | 35.90 | 8.73 | 0.0 | |
| | 1/19/2009 | 9:35 | 9:45 | 13.05 | 9.49 | 9.61 | 0.362 | 187.80 | 11.40 | 0.0 | |
| | 2/4/2009 | 14:18 | 14:38 | 13.61 | 9.53 | 6.97 | 0.252 | -7.10 | 0.88 | 0.4 | |
| | 3/4/2009 | 15:54 | 16:24 | 13.18 | 10.28 | 6.96 | 0.212 | 23.00 | 9.04 | 4.5 | |
| | 3/27/2009 | 14:02 | 14:35 | 13.52 | 9.02 | 7.23 | 0.180 | -13.40 | 9.30 | 0.0 | |
| | 4/14/2009 | 12:23 | 12:28 | 13.21 | 9.27 | 7.14 | 0.301 | 177.90 | 9.13 | 1.20 | |
| | 5/18/2009 | 14:01 | 14:06 | 13.63 | 8.69 | 7.55 | 0.484 | 191.40 | 10.83 | 0.00 | |
| | 6/24/2009 | 11:14 | 11:19 | 13.59 | 10.34 | 6.87 | 0.965 | 144.00 | 11.58 | 3.60 | |
| | 7/29/2009 | 11:27 | 11:32 | 14.38 | 12.06 | 8.49 | 0.397 | 157.70 | 9.51 | 1.20 | |
| | 8/27/2009 | 13:30 | 13:38 | 15.04 | 12.88 | 7.37 | 0.309 | 82.90 | 19.52 | 1.60 | |
| | 9/15/2009 | 13:59 | 14:04 | 15.57 | 12.96 | 7.92 | 0.280 | -53.50 | 9.89 | 0.90 | |
| | 10/12/2009 | 11:47 | 11:52 | 16.23 | 12.64 | 7.13 | 0.502 | 117.20 | 6.39 | 0.60 | |
| | 11/11/2009 | 13:51 | 13:56 | 16.64 | 12.64 | 6.98 | 0.504 | 110.30 | 7.03 | 0.70 | |
| | 12/15/2009 | 13:26 | 13:31 | 17.05 | 11.52 | 7.25 | 0.452 | 108.10 | 4.69 | 1.6 | |
| | 1/12/2010 | 11:08 | 11:13 | 17.23 | 10.42 | 7.03 | 0.600 | 134.20 | 3.59 | 0.00 | |
| | 2/9/2010 | 11:28 | 11:33 | 16.96 | 10.00 | 7.18 | 0.393 | 91.00 | 2.59 | 0.20 | |
| | 3/9/2010 | 10:59 | 11:04 | 17.78 | 9.91 | 6.81 | 0.428 | 93.30 | 1.62 | 0.00 | |
| | 4/13/2010 | 11:46 | 11:51 | 17.32 | 9.76 | 6.76 | 0.354 | 28.70 | 2.39 | 0.00 | |
| | 5/11/2010 | 11:42 | 11:47 | 17.89 | 9.78 | 6.74 | 0.340 | 49.80 | 2.47 | 0.00 | |
| | 6/15/2010 | 11:39 | 11:44 | 18.30 | 10.93 | 6.50 | 0.384 | -42.30 | 1.61 | 0.10 | |
| | 7/13/2010 | 8:40 | 8:45 | 18.45 | 11.45 | 6.70 | 0.503 | -71.90 | 2.36 | 0.00 | |
| | 8/11/2010 | 14:03 | 14:08 | 18.45 | 12.98 | 6,87 | 0.328 | -79.50 | 1.81 | 0.20 | |
| | 9/15/2010 | 10:38 | 10:43 | 18.63 | 12.19 | 7.71 | 0.350 | 46.00 | 3.90 | 0.00 | |
| | 10/12/2010 | 11:48 | 11:53 | 17.13 | 14.12 | 7.29 | 0.617 | -82.40 | 1.44 | 0.00 | |
| | 11/16/2010 | 12:53 | 12:58 | 16.93 | 13.38 | 6.64 | 0.714 | 92.70 | 8.68 | 0.70 | |
| | 12/14/2010 | 11:52 | 11:57 | 16.49 | 11.38 | 6.88 | 0.709 | -125.10 | 2.11 | 0.60 | System Off |
| | 1/17/2011 | 9:33 | 9:38 | 16.58 | 10.38 | 6.96 | 0.731 | 17.10 | 6.59 | 0.00 | |
| | | | | | | | | | | | |
| 3805-MWS2 | 12/19/2008 | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| | 1/12/2009 | 13:56 | 14:23 | 7.33 | 7.98 | 7.08 | 0.445 | 6.50 | 11.38 | 0.4 | |
| | 1/19/2009 | 12:05 | 12:15 | 7.53 | 6.74 | 7.79 | 0.418 | 26.00 | 12.44 | 0.0 | |
| | 2/4/2009 | 15:03 | 15:18 | 8.14 | 8.02 | 7.04 | 0.318 | 139.50 | 0.03 | 0.4 | |

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

| Monitoring Well | Date | Start Time | End Time | DTW | Temp | pH | Conductivity | ORP (mV) | DO | PID (ppm) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3/4/2009 | 14:07 | 14:44 | 6.91 | 3.76 | 7.18 | 0.421 | 77.60 | 13.49 | 0.0 | |
| | 3/27/2009 | 14:42 | 15:18 | 6.65 | 3.06 | 7.50 | 0.189 | -25.40 | 12.69 | 0.0 | |
| | 4/14/2009 | 12:46 | 12:51 | 6.54 | 5.13 | 7.58 | 0.310 | 175.70 | 9.98 | 0.00 | |
| | 5/18/2009 | 14:12 | 14:17 | 6.94 | 8.93 | 7.76 | 0.285 | 161.80 | 4.70 | 0.00 | |
| | 6/24/2009 | 10:40 | 10:54 | 7.58 | 12.40 | 7.20 | 0.313 | 152.10 | 3.68 | 1.10 | |
| | 7/29/2009 | 11:07 | 11:12 | 8.49 | 16.09 | 8.29 | 0.490 | 216.40 | 7.10 | 0.30 | |
| | 8/27/2009 | 11:51 | 11:56 | 9.31 | 15.67 | 7.08 | 0.359 | 24.40 | 11.06 | 0.00 | |
| | 9/15/2009 | 14:06 | 14:11 | 10.23 | 10.67 | 7.67 | 0.680 | -30.90 | 10.98 | 0.00 | |
| | 10/12/2009 | 12:58 | 13:03 | 10.83 | 14.83 | 7.44 | 0.268 | 122.30 | 9.23 | 0.40 | |
| | 11/12/2009 | 13:22 | 13:27 | 11.34 | 13.09 | 7.14 | 0.303 | 90.80 | 9.02 | 0.30 | |
| | 12/15/2009 | 12:56 | 13:01 | 11.69 | 11.03 | 7.66 | 0.260 | 102.70 | 10.08 | 0.0 | |
| | 1/12/2010 | 10:30 | 10:35 | 12.18 | 9.65 | 7.28 | 0.419 | 143.30 | 9.45 | 0.40 | |
| | 2/9/2010 | 11:00 | 11:05 | 11.82 | 7.59 | 7.27 | 0.350 | 84.30 | 10.42 | 0.10 | |
| | 3/9/2010 | 10:32 | 10:37 | 12.54 | 7.94 | 7.15 | 0.897 | 68.30 | 10.60 | 0.00 | |
| | 4/13/2010 | 11:11 | 11:16 | 12.07 | 7.92 | 6.80 | 2.214 | 27.00 | 12.29 | 0.00 | |
| | 5/11/2010 | 12:45 | 12:50 | 12.67 | 9.44 | 7.13 | 0.767 | 97.10 | 8.16 | 0.10 | |
| | 6/15/2010 | 11:16 | 11:21 | 13.16 | 10.73 | 6.81 | 0.527 | -18.60 | 11.34 | 0.40 | |
| | 7/13/2010 | 8:16 | 8:21 | 13.19 | 12.38 | 7.10 | 0.546 | 105.10 | 11.52 | 0.10 | |
| | 8/11/2010 | 13:42 | 13:47 | 13.45 | 14.37 | 7.14 | 0.420 | -8.00 | 10.79 | 0.20 | |
| | 9/15/2010 | 10:59 | 11:04 | 13.75 | 12.14 | 7.34 | 0.419 | 58.50 | 10.12 | 0.00 | |
| | 10/12/2010 | 12:07 | 12:12 | 11.68 | 15.38 | 7.25 | 0.469 | -8.10 | 9.78 | 0.10 | |
| | 11/16/2010 | 13:05 | 13:10 | 12.09 | 14.03 | 7.02 | 0.230 | 115.80 | 9.71 | 0.80 | |
| | 12/14/2010 | 11:20 | 11:25 | 11.03 | 11.04 | 7.13 | 0.318 | -139.20 | 3.51 | 0.00 | System Off |
| | 1/17/2011 | 9:06 | 9:11 | 11.74 | 8.93 | 7.18 | 0.333 | 24.90 | 10.46 | 0.00 | |
| | | | | | | | | | | | |
| 3805-MWS3 | 12/19/2008 | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| | 1/12/2009 | 13:55 | 14:19 | 14.28 | 9.22 | 7.18 | 0.144 | 31.60 | 0.86 | 0.0 | |
| | 1/19/2009 | 13:36 | 13:46 | 14.55 | 8.28 | 8.26 | 0.149 | 22.50 | 12.81 | 0.0 | |
| | 2/4/2009 | 14:39 | 15:05 | 15.29 | 7.49 | 7.08 | 0.145 | 27.40 | 1.01 | 0.1 | |
| | 3/4/2009 | 16:08 | 16:35 | 14.72 | 7.88 | 6.98 | 0.081 | 76.50 | 10.18 | 0.0 | |
| | 3/27/2009 | 14:32 | 15:02 | 15.02 | 8.02 | 7.02 | 0.125 | 71.40 | 7.91 | 0.0 | |
| | 4/14/2009 | 12:35 | 12:40 | 14.81 | 7.69 | 6.89 | 0.123 | 178.40 | 11.31 | 0.0 | |
| | 5/18/2009 | 14:23 | 14:28 | 15.38 | 8.20 | 7.64 | 0.104 | 155.20 | 11.93 | 0.0 | |
| | 6/24/2009 | 11:00 | 11:05 | 15.31 | 9.98 | 7.05 | 0.093 | 136.90 | 13.21 | 1.0 | |
| | 7/29/2009 | 11:16 | 11:21 | 16.11 | 11.75 | 8.81 | 0.116 | 176.00 | 10.76 | 0.5 | |
| | 8/27/2009 | 13:46 | 13:51 | 16.75 | 11.16 | 7.39 | 0.494 | 96.10 | 10.74 | 0.0 | |
| | 9/15/2009 | 14:15 | 14:20 | 10.14 | 15.35 | 7.41 | 0.276 | -27.70 | 9.36 | 0.0 | |
| | 10/12/2009 | 13:10 | 13:15 | 17.84 | 10.93 | 7.27 | 1.786 | 138.50 | 9.63 | 0.0 | |
| | 11/12/2009 | 13:37 | 13:42 | 18.19 | 11.79 | 7.02 | 2.287 | 106.30 | 12.87 | 0.2 | |
| | 12/15/2009 | 13:11 | 13:16 | 18.48 | 10.40 | 7.16 | 2.528 | 150.90 | 11.63 | 0.0 | |
| | 1/12/2010 | 10:50 | 10:55 | 18.57 | 9.52 | 7.03 | 3.196 | 164.40 | 9.53 | 0.0 | |
| | 2/9/2010 | 11:13 | 11:18 | 17.21 | 9.28 | 7.22 | 1.186 | 111.20 | 9.22 | 0.0 | |
| | 3/9/2010 | 10:46 | 10:51 | 18.94 | 9.34 | 7.17 | 0.754 | 79.20 | 9.70 | 0.0 | |
| | 4/13/2010 | 11:33 | 11:38 | 18.46 | 9.33 | 7.09 | 0.884 | -25.10 | 10.62 | 0.1 | |
| | 5/11/2010 | 13:00 | 13:05 | 19.06 | 8.75 | 7.15 | 0.600 | 94.90 | 9.88 | 0.00 | |
| | 6/15/2010 | 11:28 | 11:33 | 19.54 | 9.70 | 6.63 | 0.674 | -7.80 | 12.09 | 0.3 | |
| | 7/13/2010 | 8:27 | 8:32 | 19.82 | 10.31 | 6.75 | 0.997 | 131.80 | 12.01 | 0.0 | |
| | 8/11/2010 | 13:52 | 13:57 | 19.88 | 11.36 | 6.95 | 0.625 | 45.90 | 10.61 | 0.1 | |
| | 9/15/2010 | 10:47 | 10:52 | 20.01 | 11.15 | 7.26 | 0.617 | 57.60 | 10.75 | 0.0 | |
| | 10/12/2010 | 11:58 | 12:03 | 18.71 | 12.01 | 7.11 | 0.573 | -19.20 | 7.37 | 0.0 | |
| | 11/16/2010 | 13:45 | 13:50 | 18.04 | 11.96 | 6.74 | 0.513 | 63.10 | 8.02 | 0.9 | |
| | 12/14/2010 | 11:36 | 11:41 | 17.86 | 11.23 | 6.84 | 0.658 | -129.90 | 1.75 | 0.0 | System Off |
| | 1/17/2011 | 9:18 | 9:23 | 17.76 | 9.42 | 7.39 | 0.188 | -4.00 | 10.94 | 0.0 | |
| | | | | | | | | | | | |
| ***System C*** | | | | | | | | | | | |
| OSL-MW3 | 12/18/2008 | NR | NR | NR | NR | NR | NR | 177.60 | 15.82 | 0.0 | |
| | 1/12/2009 | 9:15 | 10:00 | 19.96 | 11.26 | 6.92 | 0.338 | 149.10 | 0.66 | 0.4 | |
| | 1/19/2009 | 11:30 | 11:45 | 19.14 | 11.06 | 7.33 | 1.036 | 25.70 | 10.76 | 0.3 | Well water was bubbling. |
| | 2/4/2009 | 10:25 | 10:43 | 20.63 | 10.43 | 7.08 | 0.382 | 100.30 | 0.43 | 6.4 | |
| | 3/4/2009 | 10:48 | 11:26 | 20.52 | 10.20 | 6.73 | 0.231 | 96.60 | 5.29 | 0.0 | |
| | 3/26/2009 | 14:40 | 15:01 | 20.21 | 10.19 | 6.96 | 0.442 | 118.20 | 6.29 | 13.3 | Well water was bubbling. |
| | 4/14/2009 | 8:37 | 8:42 | 20.76 | 8.96 | 7.34 | 1.030 | 144.10 | 10.61 | 0.0 | |
| | 5/18/2009 | 11:15 | 11:20 | 21.31 | 9.61 | 7.28 | 1.093 | 195.70 | 8.76 | 0.0 | |
| | 6/24/2009 | 8:27 | 8:32 | 20.74 | 10.04 | 6.70 | 3.362 | 72.90 | 1.68 | 2.6 | |
| | 7/29/2009 | 12:44 | 12:49 | 21.32 | 11.70 | 8.96 | 0.538 | -42.90 | 0.53 | 0.1 | |
| | 8/27/2009 | 10:14 | 10:20 | 21.75 | 11.36 | 7.52 | 0.324 | -82.20 | 0.32 | 15.7 | |
| | 9/15/2009 | 10:43 | 10:48 | 22.03 | 11.32 | 6.89 | 0.250 | -6.10 | 4.09 | 24.9 | |
| | 10/12/2009 | 9:48 | 9:53 | 21.78 | 10.57 | 6.85 | 0.844 | 20.20 | 6.86 | 163.7 | |
| | 11/12/2009 | 9:17 | 9:22 | 22.74 | 10.72 | 6.75 | 0.187 | -51.10 | 4.30 | 5.4 | |
| | 12/15/2009 | 9:30 | 9:35 | 22.94 | 10.66 | 6.97 | 0.228 | -18.90 | 1.25 | 11.3 | |
| | 1/12/2010 | 14:35 | 14:40 | 23.06 | 9.77 | 6.83 | 0.935 | -26.80 | 1.55 | 35.8 | |
| | 2/9/2010 | 9:36 | 9:41 | 22.86 | 9.88 | 6.85 | 0.703 | 139.60 | 2.33 | 5.9 | |
| | 3/9/2010 | 7:36 | 7:41 | 23.16 | 10.61 | 6.68 | 0.456 | 167.10 | 5.45 | 3.7 | |
| | 4/13/2010 | 8:22 | 8:27 | 23.11 | 9.80 | 6.79 | 0.453 | 36.70 | 7.21 | 0.6 | |
| | 5/11/2010 | 7:44 | 7:49 | 23.64 | 9.87 | 6.20 | 0.601 | 82.10 | 2.24 | 10.60 | |
| | 6/15/2010 | 7:53 | 7:58 | 24.02 | 10.84 | 6.15 | 1.791 | -19.80 | 3.95 | 1.4 | |
| | 7/13/2010 | 7:08 | 7:13 | 24.26 | 10.67 | 6.54 | 1.521 | -62.10 | 12.31 | 0.2 | |
| | 8/11/2010 | 9:56 | 10:01 | 24,26 | 12.03 | 6.39 | 0.599 | 24.20 | 4.21 | 0.2 | |
| | 9/15/2010 | 8:14 | 8:19 | 24.18 | 11.04 | 6.60 | 0.797 | 92.70 | 1.98 | 0.0 | |
| | 10/12/2010 | 9:16 | 9:21 | 23.23 | 11.57 | 6.68 | 0.823 | 74.70 | 2.56 | 0.7 | |
| | 11/16/2010 | 11:33 | 11:38 | 22.93 | 12.40 | 7.22 | 0.262 | -49.10 | 2.33 | 0.0 | |
| | 12/14/2010 | 9:22 | 9:27 | 22.32 | 11.16 | 6.74 | 0.992 | -121.10 | 0.40 | 0.0 | System off |
| | 1/17/2011 | 8:26 | 8:31 | 22.30 | 10.60 | 7.09 | 0.584 | 97.00 | 8.02 | 2.8 | |
| | | | | | | | | | | | |
| 3805-MWS8 | 12/18/2008 | NR | NR | NR | NR | NR | NR | -41.20 | 2.51 | 0.0 | |
| | 1/12/2009 | 10:23 | 10:46 | 22.80 | 10.58 | 7.09 | 0.446 | 85.30 | 8.96 | 0.0 | |
| | 1/19/2009 | 9:15 | 9:30 | 23.15 | 8.65 | 7.46 | 0.003 | 179.40 | 12.20 | 0.0 | |
| | 2/4/2009 | 10:30 | 10:47 | 23.80 | 9.76 | 6.77 | 0.244 | 146.10 | 0.04 | 0.0 | |
| | 3/4/2009 | 10:54 | 11:36 | 23.35 | 10.45 | 6.86 | 0.331 | 41.50 | 6.32 | 0.0 | |
| | 3/26/2009 | 15:13 | 15:30 | 23.48 | 9.52 | 7.17 | 0.228 | 143.20 | 8.29 | 0.0 | |
| | 4/14/2009 | 9:40 | 9:45 | 23.62 | 8.83 | 7.68 | 0.393 | 70.90 | 8.74 | 0.0 | |
| | 5/18/2009 | 11:04 | 11:09 | 24.14 | 9.16 | 7.42 | 0.194 | 208.50 | 11.38 | 0.0 | |

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

| Monitoring Well | Date | Start Time | End Time | DTW | Temp | pH | Conductivity | ORP (mV) | DO | PID (ppm) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6/24/2009 | 7:52 | 7:57 | 24.13 | 9.93 | 6.36 | 2.212 | 35.60 | 0.78 | 4.7 | |
| | 7/29/2009 | 13:13 | 13:18 | 24.81 | 10.46 | 7.75 | 1.189 | 43.90 | 1.23 | 0.0 | |
| | 8/28/2009 | 10:41 | 10:46 | 25.38 | 9.39 | 6.45 | 3.460 | -34.40 | 1.02 | 0.0 | |
| | 9/15/2009 | 11:16 | 11:21 | 25.76 | 9.68 | 6.75 | 0.793 | -39.40 | 11.26 | 0.0 | |
| | 10/12/2009 | 9:29 | 9:34 | 26.21 | 9.43 | 6.54 | 1.505 | 24.80 | 1.72 | 0.0 | |
| | 11/12/2009 | 9:53 | 9:58 | 26.58 | 10.02 | 6.63 | 0.521 | -32.00 | 2.59 | 0.3 | |
| | 12/15/2009 | 9:56 | 10:01 | 26.31 | 10.24 | 6.99 | 0.954 | -66.40 | 1.29 | 0.0 | |
| | 1/12/2010 | 14:54 | 14:59 | 26.85 | 10.09 | 6.69 | 1.027 | -47.80 | 1.62 | 0.7 | |
| | 2/9/2010 | 10:06 | 10:11 | 26.52 | 9.95 | 6.80 | 0.530 | 78.90 | 1.59 | 0.0 | |
| | 3/9/2010 | 8:00 | 8:05 | 27.12 | 9.83 | 6.75 | 0.520 | -57.50 | 1.25 | 0.0 | |
| | 4/13/2010 | 8:47 | 8:52 | 26.67 | 10.18 | 6.70 | 0.560 | -0.10 | 1.44 | 0.0 | |
| | 5/11/2010 | 8:08 | 8:13 | 27.21 | 9.41 | 6.77 | 0.609 | -48.50 | 0.74 | 0.00 | |
| | 6/15/2010 | 8:38 | 8:43 | 27.69 | 9.91 | 6.42 | 1.126 | -52.00 | 1.03 | 0.0 | |
| | 7/13/2010 | 7:35 | 7:40 | 27.97 | 10.11 | 6.70 | 1.468 | -77.00 | 11.83 | 0.0 | |
| | 8/11/2010 | 10:22 | 10:27 | 28.17 | 10.13 | 6.53 | 1.892 | -84.00 | 2.32 | 0.0 | |
| | 9/15/2010 | 8:42 | 8:47 | 28.21 | 9.71 | 6.53 | 2.063 | 65.10 | 1.58 | 0.0 | |
| | 10/12/2010 | 9:41 | 9:46 | 27.28 | 10.61 | 6.77 | 1.162 | -59.50 | 1.93 | 0.0 | |
| | 11/16/2010 | 11:51 | 11:56 | 26.61 | 11.17 | 6.73 | 0.539 | -45.80 | 2.37 | 0.0 | |
| | 12/14/2010 | 10:03 | 10:08 | 26.29 | 10.69 | 6.70 | 0.715 | -151.90 | 0.11 | 0.0 | System off |
| | 1/17/2011 | 8:51 | 8:56 | 25.92 | 10.13 | 7.07 | 0.491 | -55.80 | 5.28 | 0.0 | |
| | | | | | | | | | | | |
| 3805-MWS11 | 12/18/2008 | NR | NR | NR | NR | NR | NR | 201.70 | 11.78 | 0.0 | |
| | 1/12/2009 | 10:10 | 10:38 | 26.90 | 11.61 | 6.63 | 1.603 | -58.80 | 0.17 | 0.0 | |
| | 1/19/2009 | 8:50 | 9:10 | 27.00 | 10.08 | 6.92 | 0.002 | 201.10 | 7.30 | 0.0 | |
| | 2/4/2009 | 10:50 | 11:12 | 27.39 | 11.44 | 6.48 | 1.373 | -34.50 | 0.34 | 16.2 | |
| | 3/4/2009 | 11:34 | 12:14 | 27.15 | 12.56 | 6.72 | 0.772 | -17.70 | 1.12 | 0.0 | |
| | 3/26/2009 | 14:58 | 15:27 | 27.34 | 8.48 | 6.86 | 0.006 | -6.20 | 10.41 | 0.0 | |
| | 4/13/2009 | 9:28 | 9:33 | 27.46 | 11.47 | 6.95 | 1.860 | -111.00 | 2.95 | 0.0 | |
| | 5/18/2009 | 10:25 | 10:30 | 27.66 | 12.65 | 6.69 | 1.130 | -15.60 | 3.89 | 0.0 | |
| | 6/24/2009 | 8:07 | 8:12 | 27.72 | 12.32 | 6.73 | 1.079 | -120.80 | 0.83 | 36.3 | |
| | 7/29/2009 | 13:02 | 13:07 | 28.30 | 13.27 | 7.94 | 1.326 | -89.80 | 1.27 | 130.2 | |
| | 8/27/2009 | 10:29 | 10:34 | 28.35 | 11.81 | 6.50 | 1.697 | -114.20 | 0.36 | 207.1 | |
| | 9/15/2009 | 10:55 | 11:00 | 28.59 | 11.88 | 6.43 | 1.674 | -78.10 | 9.41 | 0.1 | |
| | 10/12/2009 | 9:05 | 9:10 | 28.93 | 11.25 | 6.58 | 1.425 | -95.90 | 0.51 | 11.5 | |
| | 11/12/2009 | 9:32 | 9:37 | 29.12 | 10.95 | 6.82 | 1.441 | -111.50 | 13.40 | 48.9 | |
| | 12/15/2009 | 9:40 | 9:45 | 29.23 | 11.18 | 7.16 | 0.728 | -77.60 | 1.05 | 0.0 | |
| | 1/12/2010 | 14:47 | 14:52 | 29.28 | 10.93 | 7.09 | 0.687 | -62.60 | 0.99 | 1.1 | |
| | 2/9/2010 | 9:54 | 9:59 | 29.07 | 11.01 | 6.98 | 0.434 | 100.40 | 1.30 | 0.6 | |
| | 3/9/2010 | 7:47 | 7:52 | 29.39 | 11.00 | 6.77 | 0.305 | -84.30 | 1.08 | 0.0 | |
| | 4/13/2010 | 8:34 | 8:39 | 29.18 | 11.34 | 6.82 | 0.337 | -4.10 | 0.98 | 0.0 | |
| | 5/11/2010 | 7:56 | 8:01 | 29.46 | 10.86 | 6.68 | 0.278 | -46.50 | 0.89 | 0.20 | |
| | 6/15/2010 | 8:25 | 8:30 | 29.77 | 11.64 | 6.48 | 0.293 | -43.70 | 1.01 | 0.2 | |
| | 7/13/2010 | 7:23 | 7:28 | 29.99 | 11.27 | 6.77 | 0.432 | -112.20 | 1.76 | 0.4 | |
| | 8/11/2010 | 10:09 | 10:14 | 30.12 | 11.02 | 6.79 | 0.366 | -122.00 | 0.68 | 0.4 | |
| | 9/15/2010 | 8:30 | 8:35 | 30.14 | 10.39 | 6.55 | 0.359 | 63.40 | 1.34 | 0.0 | |
| | 10/12/2010 | 9:30 | 9:35 | 29.62 | 10.88 | 6.63 | 0.379 | -78.00 | 1.00 | 0.0 | |
| | 11/16/2010 | 13:31 | 13:36 | 29.18 | 11.14 | 6.55 | 0.396 | -82.60 | 0.82 | 0.6 | |
| | 12/14/2010 | 9:45 | 9:50 | 28.91 | 10.47 | 6.75 | 0.444 | -147.20 | 0.04 | 0.0 | System off |
| | 1/17/2011 | 8:;40 | 8:45 | 28.64 | 11.16 | 6.62 | 0.697 | -135.20 | 0.78 | 0.1 | |
| | | | | | | | | | | | |
| ***System D*** | | | | | | | | | | | |
| 1995-MW44 | 12/19/2008 | NR | NR | NR | NR | NR | NR | 167.3 | 12.45 | 0.0 | |
| | 12/31/2008 | NR | NR | NR | NR | NR | NR | 146.6 | 42.00 | 0.0 | |
| | 1/12/2009 | 8:00 | 8:15 | 23.56 | 11.50 | 7.25 | 0.285 | 146.1 | 8.00 | 0.0 | |
| | 1/19/2009 | 8:08 | 8:35 | 23.45 | 11.66 | 7.53 | 0.239 | 162.3 | 11.67 | 0.0 | |
| | 2/4/2009 | 9:30 | 9:45 | 24.00 | 11.53 | 6.74 | 0.256 | 141.2 | 0.06 | 0.0 | |
| | 3/4/2009 | 13:18 | 13:40 | 23.62 | 11.62 | 6.98 | 0.241 | 74.2 | 10.69 | 0.0 | |
| | 3/27/2009 | 10:50 | 11:23 | 23.95 | 11.21 | 7.33 | 0.306 | 166.9 | 9.11 | 0.0 | |
| | 4/14/2009 | 10:19 | 10:24 | 24.17 | 9.98 | 7.32 | 0.003 | 204.50 | 9.49 | 0.00 | |
| | 5/18/2009 | 11:53 | 11:58 | 24.03 | 10.56 | 7.38 | 0.295 | 153.40 | 12.17 | 0.00 | |
| | 6/24/2009 | 9:04 | 9:09 | 23.44 | 10.40 | 6.97 | 0.309 | 150.10 | 12.71 | 0.00 | |
| | 7/29/2009 | 13:30 | 13:35 | 24.19 | 10.68 | 8.62 | 0.265 | 69.80 | 10.87 | 0.00 | |
| | 8/27/2009 | 11:06 | 11:11 | 24.76 | 10.84 | 6.85 | 0.292 | 76.80 | 12.04 | 0.00 | |
| | 9/15/2009 | 11:36 | 11:41 | 25.14 | 11.08 | 7.08 | 0.339 | -18.30 | 12.67 | 0.00 | |
| | 10/12/2009 | 10:05 | 10:10 | 25.54 | 10.97 | 7.02 | 1.043 | 108.60 | 9.88 | 0.00 | |
| | 11/12/2009 | 10:08 | 10:13 | 26.02 | 11.26 | 7.00 | 0.432 | 9.20 | 10.95 | 0.00 | |
| | 12/15/2009 | 10:25 | 10:30 | 26.34 | 10.54 | 7.43 | 0.375 | -39.80 | 11.93 | 0.0 | |
| | 1/12/2010 | 14:11 | 14:16 | 26.69 | 10.40 | 7.11 | 0.629 | -18.40 | 10.58 | 0.00 | |
| | 2/9/2010 | 10:30 | 10:35 | 26.64 | 10.51 | 7.01 | 0.738 | 81.60 | 10.10 | 0.00 | |
| | 3/9/2010 | 10:00 | 10:05 | 27.26 | 10.62 | 6.96 | 0.308 | 47.20 | 10.34 | 0.00 | |
| | 4/13/2010 | 10:20 | 10:25 | 27.06 | 10.57 | 7.08 | 0.363 | 2.10 | 10.78 | 0.00 | |
| | 5/11/2010 | 9:45 | 9:50 | 27.31 | 10.30 | 7.02 | 0.336 | 39.90 | 11.03 | 0.00 | |
| | 6/15/2010 | 9:07 | 9:12 | 27.64 | 10.31 | 6.79 | 0.268 | 0.40 | 12.31 | 0.10 | |
| | 7/13/2010 | 8:00 | 8:05 | 27.78 | 10.30 | 6.96 | 0.455 | 92.20 | 11.92 | 0.00 | |
| | 8/11/2010 | 13:00 | 13:05 | 27.88 | 10.60 | 7.02 | 1.260 | 65.70 | 12.87 | 0.00 | |
| | 9/15/2010 | 9:03 | 9:08 | 27.94 | 10.33 | 6.92 | 0.997 | 66.50 | 10.61 | 0.00 | |
| | 10/12/2010 | 10:06 | 10:11 | 26.11 | 11.28 | 6.78 | 3.111 | 15.50 | 8.84 | 0.00 | |
| | 11/16/2010 | 11:19 | 11:24 | 26.42 | 11.78 | 7.24 | 0.391 | 93.70 | 12.83 | 0.00 | |
| | 12/14/2010 | 10:34 | 10:39 | 26.02 | 11.14 | 7.22 | 0.521 | -110.20 | 4.19 | 0.00 | System off |
| | 1/17/2011 | 11:50 | 11:55 | 26.24 | 10.95 | 7.53 | 0.649 | -181.40 | 10.13 | 0.00 | |
| | | | | | | | | | | | |
| 1995-MWS1 | 12/19/2008 | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| | 12/31/2008 | NR | NR | NR | NR | NR | NR | 117.7 | 10.66 | 0.0 | |
| | 1/12/2009 | 12:47 | 13:09 | 18.10 | 10.28 | 7.20 | 0.186 | 117.8 | 11.26 | 1.1 | |
| | 1/19/2009 | 10:15 | 10:30 | 18.35 | 9.30 | 7.79 | 0.269 | 187.7 | 13.33 | 1.8 | |
| | 2/4/2009 | 13:18 | 13:37 | 18.89 | 10.46 | 7.00 | 1.084 | 168.7 | 0.02 | 0.0 | |
| | 3/4/2009 | 14:53 | 15:26 | 18.73 | 9.41 | 7.84 | 0.090 | 6.6 | 10.57 | 0.0 | |
| | 3/27/2009 | 12:30 | 13:16 | 19.00 | 8.63 | 7.61 | 0.553 | 145.7 | 10.19 | 0.0 | |
| | 4/14/2009 | 11:29 | 11:34 | 19.07 | 8.24 | 7.41 | 0.813 | 159.6 | 9.54 | 0.0 | |
| | 5/18/2009 | 13:38 | 13:43 | 19.09 | 13.10 | 6.44 | 0.002 | 252.0 | 11.31 | 0.0 | |
| | 6/24/2009 | 9:51 | 9:56 | 18.48 | 10.07 | 7.41 | 0.808 | 87.6 | 12.64 | 0.9 | |
| | 7/29/2009 | 14:05 | 14:10 | 19.31 | 11.30 | 8.79 | 0.424 | 61.9 | 10.53 | 0.9 | |

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

| Monitoring Well | Date | Start Time | End Time | DTW | Temp | pH | Conductivity | ORP (mV) | DO | PID (ppm) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8/27/2009 | 13:08 | 13:14 | 19.81 | 11.54 | 6.56 | 0.787 | 88.7 | 12.91 | 1.4 | |
| | 9/15/2009 | 13:36 | 13:41 | 20.19 | 11.51 | 6.68 | 0.515 | -12.6 | 10.60 | 0.6 | |
| | 10/12/2009 | 11:21 | 11:26 | 20.84 | 11.41 | 6.77 | 1.046 | 109.10 | 9.56 | 0.4 | |
| | 11/12/2009 | 11:32 | 11:37 | 20.21 | 11.78 | 7.02 | 1.224 | 72.1 | 12.63 | 0.0 | |
| | 12/15/2009 | 11:47 | 11:52 | 21.59 | 11.05 | 7.44 | 0.685 | 75.00 | 10.78 | 7.4 | |
| | 1/12/2010 | 13:29 | 13:34 | 23.79 | 10.25 | 7.13 | 1.026 | 40.1 | 9.41 | 4.1 | |
| | 2/9/2010 | 13:02 | 13:07 | 21.73 | 9.64 | 8.03 | 0.407 | 99.7 | 9.84 | 2.4 | |
| | 3/9/2010 | 11:26 | 11:31 | 22.34 | 10.51 | 7.47 | 0.372 | 96.8 | 9.70 | 3.5 | |
| | 4/13/2010 | 13:24 | 13:29 | 22.16 | 10.12 | 7.56 | 0.240 | 77.5 | 12.61 | 1.9 | |
| | 5/11/2010 | 11:10 | 11:15 | 22.24 | 10.03 | 7.31 | 0.661 | 27.20 | 10.80 | 2.60 | |
| | 6/15/2010 | 13:16 | 13:21 | 22.96 | 10.65 | 6.75 | 1.834 | -2.4 | 12.42 | 2.3 | |
| | 7/13/2010 | 9:28 | 9:33 | 23.21 | 9.73 | 7.03 | 2.631 | 132.0 | 11.63 | 2.4 | |
| | 8/11/2010 | 11:14 | 11:19 | 23.05 | 11.33 | 7.24 | 1.550 | 79.2 | 10.21 | 0.5 | |
| | 9/15/2010 | 10:15 | 10:20 | 22.96 | 10.79 | 7.34 | 1.109 | 41.7 | 10.92 | 0.0 | |
| | 10/12/2010 | 10:48 | 10:53 | 21.60 | 12.61 | 6.89 | 0.253 | -3.3 | 9.71 | 0.3 | |
| | 11/16/2010 | 12:36 | 12:41 | 21.51 | 12.89 | 7.31 | 0.149 | 75.1 | 10.16 | 0.0 | |
| | 12/14/2010 | 13:36 | 13:41 | 21.14 | 11.83 | 7.14 | 0.158 | -129.8 | 8.01 | 0.2 | System off |
| | 1/17/2011 | 10:00 | 10:05 | 21.17 | 11.24 | 7.72 | 0.181 | 26.4 | 10.08 | 0.0 | |
| | | | | | | | | | | | |
| 1995-MWS10 | 12/19/2008 | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| | 12/31/2008 | NR | NR | NR | NR | NR | NR | 121.7 | 5.22 | 0.0 | |
| | 1/12/2009 | 13:14 | 13:46 | 20.55 | 11.71 | 6.79 | 0.380 | -84.1 | 0.41 | 0.0 | |
| | 1/19/2009 | 10:35 | 10:50 | 20.60 | 11.53 | 7.29 | -0.311 | -67.7 | 0.67 | 0.0 | |
| | 2/4/2009 | 13:38 | 13:52 | 21.21 | 10.88 | 6.73 | 0.312 | -41.1 | 0.21 | 102.6 | |
| | 3/4/2009 | 15:21 | 15:48 | 19.97 | 9.73 | 7.16 | 0.002 | -1.7 | 11.51 | 50.9 | |
| | 3/27/2009 | 13:24 | 13:49 | 21.17 | 10.49 | 7.03 | 0.262 | -143.7 | 0.21 | 1.9 | |
| | 4/14/2009 | 11:06 | 11:11 | 21.31 | 10.14 | 6.98 | 0.292 | -122.2 | 0.92 | 63.4 | |
| | 5/18/2009 | 13:00 | 13:05 | 22.08 | 10.16 | 7.41 | 0.311 | 13.6 | 14.41 | 27.7 | |
| | 6/24/2009 | 9:25 | 9:30 | 20.89 | 10.84 | 5.86 | 0.002 | 228.9 | 10.98 | 40.5 | |
| | 7/29/2009 | 14:28 | 14:33 | 21.63 | 10.51 | 8.18 | 0.314 | -72.4 | 1.69 | 21.4 | |
| | 8/27/2009 | 12:45 | 12:50 | 22.11 | 10.42 | 6.49 | 0.284 | -53.4 | 1.79 | 34.3 | |
| | 9/15/2009 | 13:12 | 13:17 | 22.49 | 11.16 | 6.26 | 0.152 | -15.1 | 12.83 | 80.1 | |
| | 10/12/2009 | 10:58 | 11:03 | 27.18 | 11.43 | 7.57 | 1.868 | 7.1 | 11.04 | 37.8 | |
| | 11/12/2009 | 10:42 | 10:47 | 22.98 | 12.61 | 8.27 | 0.756 | -17.2 | 11.61 | 7.8 | |
| | 12/15/2009 | 11:25 | 11:30 | 23.76 | 10.47 | 7.94 | 1.264 | 94.00 | 4.25 | 24.2 | |
| | 1/12/2010 | 13:02 | 13:07 | 23.49 | 11.50 | 6.96 | 0.440 | -17.0 | 1.37 | 161.3 | |
| | 2/9/2010 | 13:26 | 13:31 | 23.57 | 12.78 | 8.19 | 0.777 | 101.2 | 11.08 | 9.6 | |
| | 3/9/2010 | 11:47 | 11:52 | 23.96 | 11.15 | 7.55 | 1.805 | 125.0 | 11.23 | 53.6 | Heavy deep gurgling, possible direct pathway from 12-2A |
| | 4/13/2010 | 13:06 | 13:11 | 23.82 | 11.72 | 7.50 | 2.340 | 66.1 | 11.27 | 4.2 | Heavy deep gurgling |
| | 5/11/2010 | 10:38 | 10:43 | 24.11 | 11.56 | 7.42 | 2.600 | -12.60 | 10.14 | 38.70 | |
| | 6/15/2010 | 12:46 | 12:51 | 24.38 | 11.57 | 7.52 | 2.021 | -0.4 | 12.03 | 39.1 | Heavy deep gurgling |
| | 7/13/2010 | 9:07 | 9:12 | 26.82 | 11.34 | 7.76 | 1.187 | 56.9 | 10.54 | 11.4 | |
| | 8/11/2010 | 11:35 | 11:40 | 24.72 | 12.68 | 8.38 | 0.910 | 52.6 | 14.83 | 5.1 | Heavy deep gurgling |
| | 9/15/2010 | 9:53 | 9:58 | 24.60 | 12.97 | 8.49 | 0.951 | 71.3 | 12.50 | 10.3 | Heavy deep gurgling |
| | 10/12/2010 | 11:16 | 11:21 | 23.62 | 11.43 | 7.30 | 2.217 | -12.1 | 2.55 | 13.8 | Heavy deeep gurgling |
| | 11/16/2010 | 12:19 | 12:24 | 23.68 | 14.26 | 7.07 | 0.230 | 5.7 | 1.06 | 7.9 | |
| | 12/14/2010 | 14:07 | 14:12 | 23.38 | 13.43 | 6.57 | 0.172 | -172.8 | 0.81 | 3.5 | System off |
| | 1/17/2011 | 10:27 | 10:32 | 22.39 | 11.46 | 7.30 | 2.037 | -275.1 | 0.30 | 5.8 | Heavy deeep gurgling |
| | | | | | | | | | | | |
| 1995-MWS6 | 12/19/2008 | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| | 12/31/2008 | NR | NR | NR | NR | NR | NR | 110.1 | 6.10 | 0.0 | |
| | 1/12/2009 | 12:52 | 13:20 | 21.35 | 10.96 | 7.10 | 1.062 | -3.5 | 0.39 | 0.0 | |
| | 1/19/2009 | 9:55 | 10:10 | 21.30 | 9.52 | 7.74 | 0.465 | 195.7 | 10.77 | 0.0 | |
| | 2/4/2009 | 13:10 | 13:33 | 21.80 | 10.57 | 6.98 | 0.677 | 23.6 | 0.24 | 0.0 | |
| | 3/4/2009 | 14:50 | 15:16 | 21.47 | 10.56 | 6.63 | 1.507 | 89.6 | 1.26 | 0.0 | |
| | 3/27/2009 | 12:24 | 13:10 | 21.68 | 10.37 | 6.73 | 1.642 | -30.1 | 1.62 | 0.0 | |
| | 4/14/2009 | 11:18 | 11:23 | 21.84 | 10.24 | 7.27 | 0.644 | 73.40 | 4.16 | 0.00 | |
| | 5/18/2009 | 13:12 | 13:17 | 21.94 | 9.98 | 7.68 | 0.299 | 151.70 | 12.21 | 0.00 | |
| | 6/24/2009 | 9:37 | 9:42 | 21.46 | 10.68 | 7.03 | 0.551 | 148.50 | 8.81 | 0.10 | |
| | 7/29/2009 | 14:15 | 14:20 | 22.14 | 10.38 | 8.40 | 0.674 | 69.70 | 7.47 | 0.10 | |
| | 8/27/2009 | 12:56 | 13:02 | 22.65 | 11.08 | 6.81 | 1.240 | 0.60 | 8.06 | 0.00 | |
| | 9/15/2009 | 13:22 | 13:27 | 23.02 | 11.35 | 7.17 | 0.574 | -35.60 | 7.80 | 0.10 | |
| | 10/12/2009 | 11:11 | 11:16 | 23.53 | 10.77 | 7.53 | 0.325 | 73.80 | 9.62 | 0.00 | |
| | 11/12/2009 | 11:05 | 11:10 | 23.86 | 10.71 | 7.32 | 0.313 | 50.00 | 9.69 | 0.00 | |
| | 12/15/2009 | 11:36 | 11:41 | 24.33 | 10.41 | 7.94 | 0.261 | 59.70 | 10.58 | 0.0 | |
| | 1/12/2010 | 13:16 | 13:21 | 24.47 | 10.41 | 7.15 | 0.562 | 18.00 | 8.80 | 0.40 | Temperature not a copy of above |
| | 2/9/2010 | 13:15 | 13:20 | 24.26 | 10.60 | 7.19 | 0.942 | 106.10 | 7.54 | 0.00 | |
| | 3/9/2010 | 11:37 | 11:42 | 24.76 | 10.55 | 6.71 | 1.321 | 136.90 | 6.34 | 0.00 | |
| | 4/13/2010 | 13:17 | 13:19 | 24.63 | 10.60 | 7.20 | 0.463 | 63.40 | 11.04 | 0.00 | |
| | 5/11/2010 | 10:54 | 10:59 | 25.00 | 10.31 | 7.20 | 0.441 | -1.60 | 10.01 | 0.00 | |
| | 6/15/2010 | 13:02 | 13:07 | 25.46 | 10.43 | 6.93 | 0.737 | -5.70 | 8.32 | 0.10 | |
| | 7/13/2010 | 9:16 | 9:21 | 25.74 | 10.72 | 7.00 | 0.847 | 102.60 | 10.74 | 0.00 | |
| | 8/11/2010 | 11:25 | 11:30 | 25.67 | 11.17 | 6.87 | 1.120 | 87.70 | 9.35 | 0.00 | |
| | 9/15/2010 | 10:05 | 10:10 | 25.60 | 10.52 | 7.44 | 1.665 | 52.60 | 9.25 | 0.00 | |
| | 10/12/2010 | 11:25 | 11:30 | 24.54 | 11.60 | 7.08 | 1.237 | 21.90 | 3.44 | 0.00 | |
| | 11/16/2010 | 12:27 | 12:32 | 24.26 | 12.18 | 7.15 | 1.692 | 50.10 | 2.90 | 0.00 | |
| | 12/14/2010 | 13:53 | 13:58 | 23.96 | 11.17 | 7.12 | 1.504 | -174.90 | 0.25 | 0.30 | System off |
| | 1/17/2011 | 10:12 | 10:17 | 23.77 | 11.13 | 6.91 | 2.070 | 4.10 | 2.03 | 0.00 | |
| | | | | | | | | | | | |
| 1995-MWS9 | 12/19/2008 | NR | NR | NR | NR | NR | NR | 194.0 | 12.95 | 0.0 | |
| | 12/31/2008 | NR | NR | NR | NR | NR | NR | 108.7 | 35.90 | 0.0 | |
| | 1/12/2009 | 11:15 | 11:32 | 20.50 | 11.51 | 6.15 | 1.995 | 6.1 | 0.06 | 0.4 | |
| | 1/19/2009 | 11:10 | 11:25 | 20.14 | 10.74 | 6.65 | 1.176 | 14.0 | 2.95 | 0.2 | |
| | 2/4/2009 | 11:23 | 11:54 | 29.50 | 11.56 | 6.05 | 3.711 | 29.5 | 0.97 | 0.0 | |
| | 3/4/2009 | 14:00 | 14:31 | 20.61 | 10.85 | 6.69 | 2.959 | -19.8 | 1.25 | 0.0 | |
| | 3/27/2009 | 11:45 | 12:09 | 20.88 | 10.25 | 6.79 | 3.889 | -94.3 | 3.52 | 0.0 | |
| | 4/14/2009 | 10:00 | 10:05 | 21.02 | 9.62 | 7.27 | 4.789 | -61.30 | 2.20 | 2.60 | |
| | 5/18/2009 | 11:34 | 11:39 | 21.08 | 9.17 | 6.75 | 6.215 | -54.80 | 1.80 | 2.20 | |
| | 6/24/2009 | 8:45 | 8:50 | 20.48 | 9.32 | 6.46 | 1.789 | 124.00 | 1.25 | 9.10 | |
| | 7/29/2009 | 13:50 | 13:55 | 21.21 | 9.75 | 8.00 | 3.491 | -86.90 | 1.34 | 4.10 | |
| | 8/27/2009 | 11:38 | 11:43 | 21.72 | 10.40 | 6.63 | 2.699 | -96.70 | 1.50 | 4.60 | |

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

| Monitoring Well | Date | Start Time | End Time | DTW | Temp | pH | Conductivity | ORP (mV) | DO | PID (ppm) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9/15/2009 | 12:56 | 13:01 | 22.09 | 11.10 | 6.61 | 2.689 | -56.60 | 2.05 | 7.10 | |
| | 10/12/2009 | 10:38 | 10:43 | 22.58 | 10.43 | 6.56 | 2.679 | -84.90 | 0.58 | 0.90 | |
| | 11/12/2009 | 10:22 | NR | NR | NR | NR | NR | NR | NR | NR | DTP 22.98, DTW 23.00, LNAPL confirmed with bailer, product removed with bailer. |
| | 12/15/2009 | 11:43 | 11:45 | 23.30 | NR | NR | NR | NR | NR | NR | DTP 23.29, DTW 23.30, LNAPL confirmed with bailer, product removed with bailer. |
| | 1/12/2010 | 13:47 | 13:52 | 23.59 | 10.85 | 6.87 | 2.293 | -64.80 | 1.61 | 106.30 | |
| | 2/9/2010 | 13:47 | 13:52 | 23.51 | 10.99 | 7.07 | 0.979 | 86.60 | 1.37 | 358.40 | |
| | 3/9/2010 | 12:03 | 12:08 | 24.08 | 11.14 | 6.71 | 2.039 | -67.40 | 1.28 | 238.40 | |
| | 4/13/2010 | 10:56 | 11:01 | 23.97 | 10.81 | 6.53 | 1.815 | -19.70 | 1.00 | 159.60 | |
| | 5/11/2010 | 10:21 | 10:26 | 24.27 | 10.17 | 6.43 | 3.161 | -46.90 | 0.21 | 102.00 | |
| | 6/15/2010 | 11:05 | 11:10 | 24.66 | 10.60 | 6.30 | 4.814 | -41.90 | 0.84 | 124.90 | |
| | 7/13/2010 | 9:42 | 9:47 | 24.84 | 10.50 | 6.47 | 3.890 | -60.80 | 10.25 | 174.30 | |
| | 8/11/2010 | 13:30 | 13:35 | 24.81 | 10.28 | 6.63 | 4.530 | 88.90 | 1.32 | 99.30 | |
| | 9/15/2010 | 11:10 | 11:15 | 24.87 | 10.50 | 6.80 | 3.448 | 54.20 | 1.68 | 41.40 | |
| | 10/12/2010 | 10:31 | 10:36 | 23.24 | 10.69 | 6.63 | 1.986 | -62.30 | 0.35 | 110.80 | |
| | 11/16/2010 | 13:16 | 13:21 | 23.33 | 12.28 | 6.63 | 1.067 | -108.30 | 6.76 | 10.80 | |
| | 12/14/2010 | 14:20 | 14:25 | 22.98 | 11.72 | 6.63 | 1.226 | -212.50 | 0.01 | 9.40 | System off |
| | 1/17/2011 | 12:19 | 12:24 | 23.06 | 11.41 | 6.77 | 0.940 | -221.30 | 1.25 | 22.70 | |

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

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

| Monitoring Date | Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb) | Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal) | LNAPL Recovery (gal) |
|---|---|---|---|
| **November** | 0.43 | 0.07 | 0 |
| **December** | 0.04 | 0.01 | 0 |
| **January** | 0.00 | 0.00 | 0 |
| **Quarter Total** | 0.47 | 0.07 | 0 |
| **Total to Date[(a)]** | 15,070.20 | 2,399.71 | 0 |

[(a)] = Total includes contaminant removed during operation of the duel-phase extraction system only. An additional 1,426 gallons of gasoline equivalent was removed during operation of the pumpand treat system (March 1996-December 2001).

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

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

| Description | November | December | January | Total/Average |
|---|---|---|---|---|
| **Gallons** | 0 | 0 | 0 | 0 |
| **Hours Operated** | 193 | 29 | 0 | 222 |
| **Days Operated** | 8 | 1 | 0 | 9 |
| **Average (gal/min)** | 0.00 | 0.00 | 0.00 | 0.00 |

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

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

| Monitoring Well | Date | Start Time | End Time | DTW | Temp | pH | Conductivity | ORP (mV) | DO | PID (ppm) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2140-MW01 | 12/16/2008 | NR | NR | NR | NR | NR | NR | 275.20 | 10.23 | 0.00 | |
| | 1/12/2009 | 17:09 | 17:31 | 20.67 | 11.71 | 6.90 | 0.164 | 66.60 | 10.98 | 0.00 | |
| | 1/19/2009 | 14:40 | 14:50 | 21.34 | 11.36 | 7.22 | 0.389 | 63.17 | 11.08 | 0.00 | |
| | 2/2/2009 | 14:57 | 15:17 | 21.42 | 12.00 | 6.82 | 0.211 | 128.70 | 0.38 | 0.70 | detectable fumes present before opening well |
| | 3/5/2009 | 8:35 | 9:02 | 21.61 | 11.53 | 7.02 | 0.613 | 134.90 | 9.02 | 0.00 | |
| | 3/26/2009 | 11:07 | 11:20 | 21.71 | 10.20 | 7.32 | 0.452 | 25.60 | 10.75 | 0.00 | |
| | 4/13/2009 | 13:25 | 13:30 | 21.74 | 10.82 | 6.51 | 2.229 | 227.90 | 11.37 | 0.00 | |
| | 5/19/2009 | 13:04 | 13:09 | 21.66 | 10.00 | 6.29 | 7.754 | 220.80 | 12.80 | 0.00 | |
| | 6/24/2009 | 14:54 | 14:59 | 21.98 | 11.42 | 6.33 | 4.081 | 115.90 | 13.11 | 0.00 | |
| | 7/29/2009 | 15:30 | 15:35 | 22.36 | 11.00 | 7.89 | 3.080 | 93.60 | 10.97 | 0.00 | |
| | 8/27/2009 | 9:52 | 9:57 | 22.90 | 10.77 | 6.45 | 8.377 | 195.30 | 12.04 | 0.00 | |
| | 9/15/2009 | 15:32 | 15:37 | 23.34 | 11.19 | 6.63 | 6.470 | 10.10 | 10.67 | 0.00 | |
| | 10/12/2009 | 14:48 | 14:53 | 23.62 | 11.09 | 6.41 | 8.926 | 79.30 | 9.10 | 0.00 | |
| | 11/11/2009 | 10:57 | 11:02 | 24.02 | 11.51 | 6.32 | 6.367 | 82.00 | 10.91 | 0.00 | |
| | 12/14/2009 | 15:12 | 15:17 | 24.48 | 11.55 | 6.61 | 6.159 | -14.50 | 9.16 | 0.70 | |
| | 1/14/2010 | 13:13 | 13:18 | 24.79 | 10.90 | 6.78 | 7.041 | -13.80 | 7.20 | 2.20 | |
| | 2/8/2010 | 10:26 | 10:31 | 24.48 | 10.59 | 6.44 | 4.104 | 11.90 | 14.16 | 0.00 | |
| | 3/8/2010 | 11:46 | 11:51 | 24.72 | 11.11 | 6.66 | 2.523 | 18.20 | 9.84 | 0.00 | |
| | 4/12/2010 | 11:12 | 11:17 | 24.03 | 11.09 | 6.65 | 2.088 | 23.80 | 12.51 | 0.00 | |
| | 5/10/2010 | 11:10 | 11:15 | 24.18 | 10.26 | 6.65 | 2.480 | 13.80 | 10.19 | 0.00 | |
| | 6/14/2010 | 11:20 | 11:25 | 24.57 | 11.04 | 6.53 | 3.353 | 38.80 | 11.51 | 0.00 | |
| | 7/13/2010 | 11:18 | 11:23 | 24.42 | 10.55 | 6.58 | 3.545 | 158.40 | 13.29 | 0.00 | |
| | 8/10/2010 | 9:46 | 9:51 | 24.39 | 11.50 | 7.34 | 1.690 | 150.20 | 10.40 | 0.00 | |
| | 9/14/2010 | 14:02 | 14:07 | 24.37 | 11.47 | 7.22 | 1.968 | 32.60 | 10.52 | 0.00 | |
| | 10/11/2010 | 10:55 | 11:00 | 23.28 | 13.29 | 6.73 | 0.329 | 140.90 | 10.32 | 0.00 | AS/SVE turned off Ozone on |
| | 11/15/2010 | 10:40 | 10:45 | 24.58 | 12.48 | 7.32 | 0.901 | 131.60 | 9.74 | 0.00 | |
| | 12/13/2010 | 13:04 | 13:09 | 23.24 | 12.46 | 7.40 | 0.667 | -114.00 | 1.35 | 0.00 | |
| | 1/17/2011 | 13:24 | 13:29 | 23.54 | 11.99 | 7.68 | 0.535 | -121.20 | 10.36 | 0.00 | |
| | | | | | | | | | | | |
| 2140-MW05D | 12/16/2008 | NR | NR | NR | NR | NR | NR | NR | NR | NR | Well damaged: frost heave, can not put probe down |
| | 1/12/2009 | 16:10 | 16:32 | 24.48 | 11.40 | 6.86 | 0.434 | 75.00 | 0.42 | 0.00 | |
| | 1/19/2009 | 14:15 | 14:20 | 25.56 | 11.40 | 8.00 | 2.249 | 47.80 | 12.19 | 28.30 | |
| | 2/2/2009 | 14:00 | 14:17 | 26.46 | 11.86 | 7.57 | 1.916 | 167.30 | 1.04 | 6.70 | |
| | 3/5/2009 | 7:55 | 8:22 | 26.16 | 11.77 | 7.87 | 1.293 | 26.00 | 12.05 | 0.00 | |
| | 3/26/2009 | 10:26 | 10:59 | 26.32 | 11.21 | 7.82 | 1.513 | -9.70 | 11.20 | 0.00 | |
| | 4/13/2009 | 12:52 | 12:57 | 26.42 | 11.49 | 8.40 | 0.945 | 277.10 | 11.05 | 0.00 | |
| | 5/19/2009 | 14:01 | 14:05 | 26.62 | 11.12 | 8.06 | 1.628 | 206.00 | 11.08 | 0.00 | |
| | 6/24/2009 | 15:12 | 15:17 | 26.61 | 12.31 | 7.76 | 1.720 | 258.50 | 12.54 | 0.40 | |
| | 7/29/2009 | 15:23 | 15:28 | 27.17 | 11.03 | 8.77 | 1.566 | -41.80 | 1.46 | 0.60 | |
| | 8/27/2009 | 9:30 | 9:35 | 27.82 | 11.75 | 7.55 | 1.657 | 148.40 | 3.82 | 4.90 | |
| | 9/16/2009 | 15:03 | 15:08 | 28.08 | 11.31 | 7.63 | 1.517 | -99.80 | 1.07 | 0.10 | |
| | 10/13/2009 | 14:20 | 14:25 | 28.08 | 11.08 | 7.67 | 1.071 | -148.50 | 1.19 | 0.00 | |
| | 11/11/2009 | 11:20 | 11:25 | 28.21 | 11.74 | 7.55 | 0.876 | -86.10 | 4.47 | 0.10 | |
| | 12/14/2009 | 14:36 | 14:41 | 28.42 | 11.47 | 8.15 | 0.798 | -96.70 | 2.16 | 0.30 | |
| | 1/14/2010 | 10:06 | 10:11 | 28.84 | 11.10 | 8.61 | 1.161 | 80.60 | 4.81 | 1.10 | |
| | 2/8/2010 | 9:16 | 9:21 | 28.54 | 11.24 | 7.59 | 0.870 | 115.70 | 6.38 | 0.00 | |
| | 3/8/2010 | 10:33 | 10:38 | 28.93 | 11.25 | 7.83 | 0.968 | 154.10 | 8.40 | 0.00 | |
| | 4/12/2010 | 10:46 | 10:51 | 28.43 | 11.46 | 7.77 | 0.966 | 18.80 | 9.45 | 0.20 | |
| | 5/10/2010 | 10:44 | 10:49 | 28.77 | 10.87 | 7.85 | 1.173 | 118.00 | 8.25 | 0.00 | |
| | 6/14/2010 | 10:47 | 10:52 | 28.61 | 11.98 | 7.30 | 3.552 | 33.60 | 12.29 | 0.20 | |
| | 7/13/2010 | 10:56 | 11:01 | 28.83 | 12.40 | 7.26 | 3.071 | 127.60 | 9.46 | 1.10 | |
| | 8/10/2010 | 9:09 | 9:14 | 28.69 | 12.12 | 7.41 | 3.090 | 38.60 | 5.28 | 0.00 | |
| | 9/14/2010 | 13:41 | 13:46 | 27.16 | 11.58 | 7.22 | 3.125 | 53.60 | 5.92 | 0.00 | |
| | 10/11/2010 | 10:33 | 10:38 | 28.21 | 12.27 | 7.59 | 2.011 | 89.70 | 9.96 | 0.10 | AS/SVE turned off Ozone on |
| | 11/15/2010 | 10:24 | 10:29 | 27.97 | 12.31 | 7.51 | 2.198 | 132.70 | 8.63 | 0.00 | |
| | 12/13/2010 | 10:41 | 10:46 | 27.83 | 12.02 | 7.69 | 2.312 | -78.70 | 0.19 | 0.00 | |
| | 1/17/2011 | 12:48 | 12:53 | 27.88 | 12.13 | 7.73 | 1.690 | -169.60 | 3.88 | 0.00 | |
| | | | | | | | | | | | |
| 2140-MW07 | 12/16/2008 | NR | NR | NR | NR | NR | NR | 160.10 | 4.66 | 12.10 | |
| | 1/12/2009 | 16:05 | 16:28 | 25.68 | 11.61 | 7.04 | 0.555 | 3.40 | 1.48 | 0.00 | |
| | 1/19/2009 | 14:00 | 14:10 | 24.65 | 10.95 | 7.20 | 0.916 | 51.00 | 6.92 | 6.51 | |
| | 2/2/2009 | 14:05 | 14:20 | 25.82 | 11.84 | 6.36 | 0.464 | 143.60 | 0.10 | 521.00 | |
| | 3/5/2009 | 9:03 | 9:36 | 26.33 | 11.92 | 6.65 | 0.543 | 41.60 | 0.67 | 58.70 | |
| | 3/26/2009 | 8:40 | 9:05 | 26.32 | 11.19 | 6.77 | 0.747 | 195.40 | 2.22 | 203.00 | |
| | 4/13/2009 | 12:50 | 13:04 | 26.61 | 10.98 | 7.09 | 0.736 | 204.90 | 1.74 | 135.00 | |
| | 5/19/2009 | 13:35 | 13:40 | 26.62 | 11.37 | 6.80 | 2.123 | 188.30 | 3.40 | 106.10 | |
| | 6/24/2009 | 15:38 | 15:42 | 26.47 | 11.64 | 6.83 | 1.197 | 82.00 | 1.07 | 50.30 | |
| | 7/29/2009 | 14:57 | 15:02 | 27.18 | 12.31 | 8.13 | 0.931 | 71.70 | 6.45 | 39.10 | |
| | 8/27/2009 | 9:38 | 9:44 | 28.04 | 10.71 | 6.74 | 6.642 | 11.50 | 2.37 | 2.90 | |
| | 9/15/2009 | 14:55 | 15:00 | 28.42 | 11.09 | 6.69 | 6.100 | 10.30 | 0.46 | 0.60 | |
| | 10/12/2009 | 14:33 | 14:38 | 28.77 | 10.81 | 7.04 | 5.431 | -110.60 | 0.91 | 0.80 | |
| | 11/11/2009 | 11:09 | 11:14 | 28.53 | 11.20 | 6.67 | 4.961 | -71.40 | 3.60 | 1,876.00 | |
| | 12/14/2009 | 14:44 | 14:49 | 29.04 | 11.09 | 7.32 | 4.036 | -114.70 | 1.30 | 8.60 | |
| | 1/14/2010 | 12:36 | 12:41 | 20.59 | 11.01 | 7.27 | 5.966 | -77.3 | 0.59 | 13.60 | |
| | 2/8/2010 | 9:42 | 9:47 | 29.41 | 10.93 | 6.66 | 5.1 | 79.8 | 3.82 | 3.60 | |
| | 3/8/2010 | 11:20 | 11:25 | 29.74 | 11.33 | 6.8 | 5.028 | -102.5 | 1.19 | 2.50 | |
| | 4/12/2010 | 10:56 | 11:01 | 29.06 | 11.55 | 6.78 | 4.286 | 3.2 | 5.51 | 1.30 | |
| | 5/10/2010 | 10:56 | 11:01 | 29.46 | 10.98 | 6.84 | 4.626 | -75.50 | 0.88 | 2.20 | |
| | 6/14/2010 | 11:02 | 11:07 | 29.62 | 11.92 | 7.14 | 3.230 | -27.9 | 10.47 | 756.40 | |

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

| Monitoring Well | Date | Start Time | End Time | DTW | Temp | pH | Conductivity | ORP (mV) | DO | PID (ppm) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7/13/2010 | 11:07 | 11:12 | 29.97 | 11.41 | 7.18 | 2.551 | 83.7 | 9.06 | 1.50 | |
| | 8/10/2010 | 8:56 | 9:01 | 29.41 | 12.67 | 7.3 | 2.590 | 86.1 | 1.59 | 0.00 | |
| | 9/14/2010 | 13:52 | 13:57 | 27.96 | 11.73 | 7.81 | 2.692 | 40.4 | 10.38 | 159.3 | |
| | 10/11/2010 | 11:42 | 11:47 | 28.74 | 12.74 | 6.73 | 1.904 | -126.6 | 0.44 | 1.6 | AS/SVE turned off Ozone on |
| | 11/15/2010 | 10:31 | 10:36 | 28.46 | 11.68 | 7.34 | 2.091 | 76.6 | 8.01 | 0 | |
| | 12/13/2010 | 12:51 | 12:56 | 28.36 | 11.07 | 6.76 | 0.545 | -111.3 | 1.21 | 7.1 | Tubing down well |
| | 1/17/2011 | 13:12 | 13:17 | 28.44 | 11.97 | 6.9 | 0.474 | -138.3 | 1.25 | 0 | |
| | | | | | | | | | | | |
| 2140-MW08 | 12/16/2008 | NR | NR | NR | NR | NR | NR | 246.90 | 12.72 | 0.00 | |
| | 1/12/2009 | 16:40 | 16:55 | 24.98 | 11.81 | 7.70 | 3.612 | 96.10 | 0.82 | 0.00 | |
| | 1/19/2009 | 14:22 | 14:32 | 27.50 | 11.90 | 8.74 | 0.616 | 52.70 | 12.02 | 0.00 | |
| | 2/2/2009 | 14:25 | 14:50 | 27.49 | 11.86 | 7.94 | 0.407 | 175.90 | 1.28 | 0.11 | |
| | 3/5/2009 | 7:50 | 8:31 | 26.71 | 11.70 | 8.05 | 0.646 | 136.10 | 11.10 | 0.00 | Well bubbling |
| | 3/26/2009 | 9:33 | 9:55 | 26.22 | 11.10 | 7.80 | 2.901 | 5.30 | 12.76 | 0.00 | |
| | 4/13/2009 | 12:43 | 12:48 | 26.34 | 11.62 | 8.17 | 2.018 | 193.80 | 14.14 | 0.00 | |
| | 5/19/2009 | 13:40 | 13:45 | 26.40 | 11.45 | 7.76 | 3.504 | 213.40 | 12.99 | 0.00 | |
| | 6/24/2009 | 16:02 | 16:07 | 27.01 | 11.40 | 7.55 | 3.453 | 137.20 | 12.72 | 0.00 | |
| | 7/29/2009 | 15:15 | 15:20 | 27.54 | 11.26 | 8.37 | 2.902 | 85.90 | 11.25 | 0.00 | |
| | 8/27/2009 | 9:09 | 9:14 | 28.05 | 11.44 | 7.34 | 3.220 | 215.90 | 12.35 | 0.00 | |
| | 9/16/2009 | 15:24 | 15:29 | 28.28 | 11.18 | 7.29 | 2.830 | 20.50 | 11.52 | 0.00 | |
| | 10/12/2009 | 13:58 | 14:03 | 28.03 | 11.10 | 7.79 | 3.873 | 112.70 | 11.81 | 0.00 | |
| | 11/11/2009 | 11:37 | 11:42 | 29.08 | 11.26 | 8.26 | 1.400 | -18.50 | 11.15 | 0.00 | |
| | 12/14/2009 | 14:26 | 14:31 | 28.11 | 10.98 | 8.28 | 2.116 | -108.60 | 12.14 | 0.00 | |
| | 1/14/2010 | 9:53 | 9:58 | 28.26 | 10.78 | 8.38 | 3.901 | 100.20 | 5.02 | 0.80 | |
| | 2/8/2010 | 9:06 | 9:11 | 27.83 | 10.28 | 7.14 | 3.616 | 145.80 | 11.27 | 0.20 | |
| | 3/8/2010 | 10:23 | 10:28 | 28.18 | 10.68 | 7.48 | 4.185 | 153.70 | 11.46 | 0.00 | |
| | 4/12/2010 | 10:18 | 10:23 | 27.62 | 11.31 | 7.37 | 4.590 | -4.90 | 11.55 | 0.10 | |
| | 5/10/2010 | 10:20 | 10:25 | 27.97 | 11.02 | 7.37 | 5.563 | 168.50 | 10.78 | 0.00 | |
| | 6/14/2010 | 10:24 | 10:29 | 28.31 | 12.14 | 6.12 | 0.021 | 47.50 | 11.78 | 0.00 | |
| | 7/13/2010 | 10:31 | 10:36 | 28.53 | 11.18 | 7.99 | 3.803 | 91.30 | 12.61 | 0.00 | |
| | 8/10/2010 | 9:33 | 9:38 | 28.28 | 11.19 | 7.87 | 3.750 | 158.00 | 11.80 | 0.00 | |
| | 9/14/2010 | 13:17 | 13:22 | 28.08 | 10.86 | 7.84 | 2.140 | 53.30 | 10.21 | 0.00 | |
| | 10/11/2010 | 11:07 | 11:12 | 27.54 | 11.71 | 7.26 | 3.404 | 177.50 | 11.56 | 0.00 | AS/SVE turned off Ozone on |
| | 11/15/2010 | 10:05 | 10:10 | 25.63 | 11.38 | 7.20 | 2.523 | 67.60 | 10.18 | 0.00 | |
| | 12/13/2010 | 10:28 | 10:33 | 27.28 | 10.98 | 7.53 | 4.973 | -45.10 | 0.09 | 0.00 | |
| | 1/17/2011 | 12:40 | 12:45 | 27.56 | 11.17 | 7.41 | 4.501 | -142.90 | 9.86 | 0.00 | |
| | | | | | | | | | | | |
| 2140-MW10 | 12/16/2008 | NR | NR | NR | NR | NR | NR | 297.20 | 10.32 | 0.00 | |
| | 1/12/2009 | 16:30 | 16:50 | 21.69 | 11.34 | 6.86 | 2.069 | 46.70 | 4.88 | 0.00 | |
| | 1/19/2009 | 14:36 | 14:42 | 21.75 | 11.29 | 8.11 | 2.071 | 62.30 | 11.69 | 14.20 | |
| | 2/2/2009 | 14:29 | 14:45 | 22.14 | 11.05 | 6.89 | 0.351 | 133.10 | 0.36 | 2.60 | |
| | 3/5/2009 | 9:39 | 10:06 | 21.93 | 10.70 | 6.64 | 0.183 | 150.20 | 8.74 | 3.20 | |
| | 3/26/2009 | 9:58 | 10:14 | 22.09 | 10.48 | 6.99 | 0.301 | 49.90 | 9.79 | 0.00 | |
| | 4/13/2009 | 13:08 | 13:13 | 22.33 | 10.92 | 7.16 | 0.190 | 209.40 | 6.26 | 0.00 | |
| | 5/19/2009 | 13:47 | 13:52 | 22.54 | 11.07 | 7.10 | 0.303 | 182.00 | 9.56 | 0.00 | |
| | 6/24/2009 | 15:50 | 15:55 | 22.71 | 10.94 | 6.51 | 1.431 | 111.30 | 4.26 | 0.00 | |
| | 7/29/2009 | 15:05 | 15:07 | 23.04 | 11.82 | 7.98 | 0.561 | 88.60 | 5.57 | 0.00 | |
| | 8/27/2009 | 9:20 | 9:25 | 23.40 | 11.76 | 7.79 | 0.001 | 194.40 | 11.54 | 0.00 | |
| | 9/15/2009 | 15:15 | 15:20 | 23.46 | 11.19 | 7.01 | 0.245 | 53.40 | 6.30 | 0.00 | |
| | 10/12/2009 | 14:08 | 14:13 | 23.55 | 11.18 | 7.23 | 0.281 | 121.30 | 7.59 | 0.00 | |
| | 11/11/2009 | 11:29 | 11:34 | 23.27 | 11.50 | 7.54 | 0.230 | -28.20 | 9.92 | 0.00 | |
| | 12/14/2009 | 15:02 | 15:07 | 23.37 | 11.18 | 7.69 | 0.469 | -99.60 | 11.30 | 1.20 | |
| | 1/14/2010 | 10:22 | 10:27 | 24.16 | 10.75 | 6.93 | 4.780 | 110.10 | 6.34 | 0.60 | |
| | 2/8/2010 | 9:27 | 9:32 | 23.76 | 11.08 | 6.58 | 6.415 | 158.90 | 9.26 | 0.00 | |
| | 3/8/2010 | 10:46 | 10:51 | 24.21 | 11.00 | 6.67 | 8.381 | 218.30 | 8.76 | 0.00 | |
| | 4/12/2010 | 10:34 | 10:39 | 23.66 | 10.99 | 6.71 | 8.108 | -0.70 | 11.86 | 0.00 | |
| | 5/10/2010 | 10:33 | 10:38 | 24.15 | 10.55 | 7.26 | 4.239 | 150.10 | 8.36 | 0.00 | |
| | 6/14/2010 | 10:36 | 10:41 | 24.18 | 11.26 | 7.40 | 2.591 | 17.20 | 11.53 | 0.00 | |
| | 7/13/2010 | 10:46 | 10:51 | 24.33 | 12.02 | 7.68 | 0.694 | 100.00 | 12.33 | 0.30 | |
| | 8/10/2010 | 10:40 | 10:45 | 24.18 | 11.81 | 7.42 | 0.900 | 118.40 | 8.40 | 0.00 | |
| | 9/14/2010 | 13:29 | 13:34 | 23.71 | 11.02 | 7.30 | 2.466 | 54.50 | 8.23 | 16.60 | |
| | 10/11/2010 | 11:20 | 11:25 | 23.62 | 12.13 | 7.30 | 1.778 | 83.90 | 7.85 | 0.00 | AS/SVE turned off Ozone on |
| | 11/15/2010 | 10:14 | 10:19 | 23.58 | 11.67 | 7.41 | 1.736 | 84.80 | 6.86 | 0.00 | |
| | 12/13/2010 | 10:50 | 10:55 | 23.32 | 10.79 | 7.41 | 1.621 | -134.30 | 0.24 | 0.00 | |
| | 1/17/2011 | 13:01 | 13:06 | 23.42 | 11.48 | 7.89 | 0.619 | -164.90 | 5.62 | 0.00 | |
| | | | | | | | | | | | |
| 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 | |

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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 | |
| | | | | | | | | | | | |
| 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 | |

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

# APPENDIX A

## Summary of Operation and Maintenance Data

## Area 1295

Table A-1
Area 1295 Ozone Injection System
November 2010 - January 2011 O&M Data
Fort Drum, NY

| Date | Time | System Condition | Injecting at Point | Air Flow Rate (scfm) | Air Flow Pressure (psi) | Notes |
|---|---|---|---|---|---|---|
| 11/01/10 | 1006 | On | 2.0 | 4.0 | 4.0 | |
| 11/02/10 | 1230 | On | 5.0 | 3.6 | 5.5 | |
| 11/03/10 | 1236 | On | 3.0 | 3.2 | 3.5 | |
| 11/04/10 | 1120 | On | 5.0 | 3.4 | 5.0 | |
| 11/05/10 | 936 | On | 4.0 | 2.8 | 3.0 | |
| 11/08/10 | 1133 | On | 4.0 | 2.8 | 3.0 | |
| 11/09/10 | 1048 | On | 3.0 | 3.2 | 3.5 | |
| 11/10/10 | 1030 | On | 1.0 | 2.2 | 3.0 | |
| 11/11/10 | 1007 | On | 3.0 | 2.8 | 3.5 | |
| 11/12/10 | 1115 | On | 2.0 | 3.0 | 4.0 | |
| 11/15/10 | 742 | On | 1.0 | 2.8 | 3.0 | |
| 11/16/10 | 1245 | On | 4.0 | 2.8 | 4.0 | |
| 11/17/10 | 1245 | On | 7.0 | 2.6 | 3.5 | |
| 11/18/10 | 1036 | On | 3.0 | 2.6 | 3.5 | |
| 11/19/10 | 1043 | On | 5.0 | 3.2 | 5.0 | |
| 11/22/10 | 1348 | On | 7.0 | 2.6 | 3.5 | |
| 11/23/10 | 901 | On | 1.0 | 2.8 | 4.0 | |
| 11/24/10 | 829 | On | 1.0 | 2.0 | 3.0 | |
| 11/29/10 | 930 | On | 1.0 | 2.6 | 3.5 | |
| 11/30/10 | 1107 | On | 3.0 | 2.8 | 4.0 | |
| 12/01/10 | 1316 | On | 6.0 | 1.8 | 3.0 | |
| 12/02/10 | 1137 | On | 1.0 | 2.0 | 3.0 | |
| 12/03/10 | 1140 | On | 3.0 | 2.6 | 3.0 | |
| 12/06/10 | 1316 | On | 5.0 | 2.8 | 4.0 | Pressure switch frozen open, compressor will not shut off automatically |
| 12/07/10 | NR | NR | NR | NR | NR | Off due to weather |
| 12/08/10 | NR | NR | NR | NR | NR | Off due to weather |
| 12/09/10 | NR | NR | NR | NR | NR | Off due to weather |
| 12/10/10 | NR | NR | NR | NR | NR | Off due to weather |
| 12/13/10 | NR | NR | NR | NR | NR | System moved to area 2140 |
| 12/14/10 | NR | NR | NR | NR | NR | Off for maintence |
| 12/15/10 | NR | NR | NR | NR | NR | Off for maintence |
| 12/16/10 | NR | NR | NR | NR | NR | Off for maintence |
| 12/17/10 | NR | NR | NR | NR | NR | Off for maintence |
| 12/20/10 | NR | NR | NR | NR | NR | Off for maintence |
| 12/21/10 | NR | NR | NR | NR | NR | System reassembled and pressure tested |
| 12/27/10 | NR | NR | NR | NR | NR | Off, waiting for well hookup |
| 12/28/10 | NR | NR | NR | NR | NR | Off, waiting for well hookup |
| 12/29/10 | NR | NR | NR | NR | NR | Off, waiting for well hookup |
| 12/30/10 | NR | NR | NR | NR | NR | Off, waiting for well hookup |
| 01/03/11 | NR | NR | NR | NR | NR | Off, waiting for well hookup |
| 01/04/11 | NR | NR | NR | NR | NR | Off, waiting for well hookup |

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

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

| Site | Well ID | Date | Depth to Product (feet) | Depth to Water (feet) | Apparent Product Thickness (ft) | Depth to Bottom (ft) | Comments |
|---|---|---|---|---|---|---|---|
| 1595 | 4-4S | 11/4/2010 | - | 10.65 | 0.00 | 13.25 | |
| | | 11/11/2010 | - | 10.59 | 0.00 | 13.25 | |
| | | 11/16/2010 | - | 10.87 | 0.00 | 13.25 | |
| | | 12/16/2010 | - | 9.75 | 0.00 | 13.25 | |
| | | 1/5/2011 | - | 10.08 | 0.00 | 13.25 | |
| | | 1/13/2011 | - | 10.31 | 0.00 | 13.25 | |
| | | 1/19/2011 | - | 10.37 | 0.00 | 13.25 | |
| | | 1/28/2011 | - | 10.36 | 0.00 | 13.25 | |
| 1595 | 4-5S | 11/4/2010 | - | 9.94 | 0.00 | 14.14 | |
| | | 11/11/2010 | - | 9.93 | 0.00 | 14.14 | |
| | | 11/16/2010 | - | 10.15 | 0.00 | 14.14 | |
| | | 12/16/2010 | - | 9.12 | 0.00 | 14.14 | |
| | | 1/5/2011 | - | 9.43 | 0.00 | 14.14 | |
| | | 1/13/2011 | - | 9.68 | 0.00 | 14.14 | |
| | | 1/19/2011 | - | 9.63 | 0.00 | 14.14 | |
| | | 1/28/2011 | - | 9.59 | 0.00 | 14.14 | |
| 1595 | MWS8 | 11/4/2010 | 9.42 | 9.73 | 0.31 | 18.80 | LNAPL confirmed with bailer, product removed with bailer. |
| | | 11/11/2010 | 9.40 | 9.51 | 0.11 | 18.80 | LNAPL confirmed with bailer, product removed with bailer. |
| | | 11/16/2010 | 8.57 | 8.82 | 0.25 | 18.80 | LNAPL confirmed with bailer, product removed with bailer. |
| | | 12/16/2010 | 7.68 | 8.41 | 0.73 | 18.80 | LNAPL confirmed with bailer, product removed with bailer. |
| | | 1/5/2011 | 8.09 | 8.50 | 0.41 | 18.80 | LNAPL confirmed with bailer, product removed with bailer. |
| | | 1/13/2011 | 8.24 | 8.31 | 0.07 | 18.80 | LNAPL confirmed with bailer, product removed with bailer. |
| | | 1/19/2011 | 8.25 | 8.29 | 0.04 | 18.80 | LNAPL confirmed with bailer, product removed with bailer. |
| | | 1/28/2011 | 8.31 | 8.37 | 0.06 | 18.80 | LNAPL confirmed with bailer, product removed with bailer. |
| 1795 | PZ-17 | 11/4/2010 | - | 12.45 | 0.00 | NR | |
| | | 11/11/2010 | - | 12.41 | 0.00 | NR | |
| | | 11/16/2010 | - | 12.64 | 0.00 | NR | |
| | | 12/16/2010 | - | 11.86 | 0.00 | NR | |
| | | 1/5/2011 | - | 11.94 | 0.00 | NR | |
| | | 1/13/2011 | - | 12.09 | 0.00 | NR | |
| | | 1/19/2011 | - | 12.39 | 0.00 | NR | |
| | | 1/28/2011 | - | 12.38 | 0.00 | NR | |
| 1795 | 5-4m | 11/4/2010 | - | 9.43 | 0.10 | 12.20 | |
| | | 11/11/2010 | - | 9.41 | 0.10 | 12.20 | |
| | | 11/16/2010 | - | 10.16 | 0.10 | 12.20 | |
| | | 12/16/2010 | - | 9.19 | 0.10 | 12.20 | |
| | | 1/5/2011 | - | 7.47 | 0.10 | 12.20 | |
| | | 1/13/2011 | - | 8.82 | 0.10 | 12.20 | |
| | | 1/19/2011 | - | 8.13 | 0.10 | 12.20 | |
| | | 1/28/2011 | - | 7.99 | 0.10 | 12.20 | |
| 1795 | 5-5m | 11/4/2010 | - | 12.20 | 0.00 | 16.89 | |
| | | 11/11/2010 | - | 12.17 | 0.00 | 16.89 | |
| | | 11/16/2010 | - | 12.74 | 0.00 | 16.89 | |
| | | 12/16/2010 | - | 12.06 | 0.00 | 16.89 | |
| | | 1/5/2011 | - | 12.42 | 0.00 | 16.89 | |
| | | 1/13/2011 | - | 13.89 | 0.00 | 16.89 | |
| | | 1/19/2011 | - | 13.37 | 0.00 | 16.89 | |
| | | 1/28/2011 | - | 13.34 | 0.00 | 16.89 | |
| 3805B | 5-5M | 11/4/2010 | - | 14.15 | 0.00 | 21.76 | |
| | | 11/11/2010 | - | 14.11 | 0.00 | 21.76 | |
| | | 11/16/2010 | - | 14.21 | 0.00 | 21.76 | |
| | | 12/16/2010 | - | 14.03 | 0.00 | 21.76 | |
| | | 1/5/2011 | - | 13.86 | 0.00 | 21.76 | |
| | | 1/13/2011 | - | 13.31 | 0.00 | 21.76 | |
| | | 1/19/2011 | - | 13.87 | 0.00 | 21.76 | |
| | | 1/28/2011 | - | 13.91 | 0.00 | 21.76 | |
| 3805B | 5-8M | 11/4/2010 | - | 14.89 | 0.00 | 22.35 | |
| | | 11/11/2010 | - | 14.87 | 0.00 | 22.35 | |
| | | 11/16/2010 | - | 15.02 | 0.00 | 22.35 | |
| | | 12/16/2010 | - | 14.49 | 0.00 | 22.35 | |
| | | 1/5/2011 | - | 14.16 | 0.00 | 22.35 | |
| | | 1/13/2011 | - | 14.17 | 0.00 | 22.35 | |
| | | 1/19/2011 | - | 14.18 | 0.00 | 22.35 | |
| | | 1/28/2011 | - | 14.20 | 0.00 | 22.35 | |
| 3805B | 6-2M | 11/4/2010 | - | 13.18 | 0.00 | 20.30 | |
| | | 11/11/2010 | - | 13.15 | 0.00 | 20.30 | |
| | | 11/16/2010 | - | 13.32 | 0.00 | 20.30 | |
| | | 12/16/2010 | - | 12.72 | 0.00 | 20.30 | |
| | | 1/5/2011 | - | 12.84 | 0.00 | 20.30 | |
| | | 1/13/2011 | - | 12.81 | 0.00 | 20.30 | |
| | | 1/19/2011 | - | 13.05 | 0.00 | 20.30 | |
| | | 1/28/2011 | - | 13.07 | 0.00 | 20.30 | |
| 3805B | 6-10M | 11/4/2010 | - | 14.73 | 0.00 | 21.74 | |
| | | 11/11/2010 | - | 14.70 | 0.00 | 21.74 | |
| | | 11/16/2010 | - | 14.87 | 0.00 | 21.74 | |
| | | 12/16/2010 | - | 15.68 | 0.00 | 21.74 | |
| | | 1/5/2011 | - | 13.97 | 0.00 | 21.74 | |
| | | 1/13/2011 | - | 14.21 | 0.00 | 21.74 | |
| | | 1/19/2011 | - | 14.49 | 0.00 | 21.74 | |
| | | 1/28/2011 | - | 14.44 | 0.00 | 21.74 | |
| 3805B | 9-1M | 11/4/2010 | 11.41 | 11.45 | 0.04 | 18.90 | confirmed with bailer and removed |
| | | 11/11/2010 | 11.40 | 11.43 | 0.03 | 18.90 | confirmed with bailer and removed |
| | | 11/16/2010 | 11.65 | 11.71 | 0.06 | 18.90 | confirmed with bailer and removed |
| | | 12/16/2010 | 10.79 | 10.80 | 0.01 | 18.90 | confirmed with bailer and removed |
| | | 1/5/2011 | 11.16 | 11.17 | 0.01 | 18.90 | confirmed with bailer and removed |
| | | 1/13/2011 | NA | 11.48 | NA | 18.90 | |
| | | 1/19/2011 | NA | 11.55 | NA | 18.90 | |
| | | 1/28/2011 | NA | 11.51 | NA | 18.90 | |
| 3805B | PZ-10-2 | 11/4/2010 | 14.14 | 14.59 | 0.45 | 21.60 | LNAPL confirmed with bailer and removed |
| | | 11/11/2010 | 14.11 | 14.39 | 0.28 | 21.60 | LNAPL confirmed with bailer and removed |
| | | 11/16/2010 | 14.42 | 14.82 | 0.40 | 21.60 | LNAPL confirmed with bailer and removed |
| | | 12/16/2010 | 13.69 | 13.97 | 0.28 | 21.60 | LNAPL confirmed with bailer and removed |
| | | 1/5/2011 | 13.92 | 14.24 | 0.32 | 21.60 | LNAPL confirmed with bailer and removed |
| | | 1/13/2011 | 14.01 | 15.23 | 1.22 | 21.60 | LNAPL confirmed with bailer and removed |
| | | 1/19/2011 | 14.27 | 14.71 | 0.44 | 21.60 | LNAPL confirmed with bailer and removed |
| | | 1/28/2011 | 14.26 | 14.62 | 0.36 | 21.60 | LNAPL confirmed with bailer and removed |

Notes:
NR = Not Recorded
ft = feet

# 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 | - | - |
| | 01/13/2010 | 623.15 | NR | - | NR | - | - |
| 1595-1-2S | 11/30/2005 | 625.48 | 7.06 | 618.42 | - | - | 618.42 |
| | 01/26/2006 | 625.48 | 6.92 | 618.56 | - | - | 618.56 |
| | 03/29/2006 | 625.48 | NR | - | NR | - | - |
| | 03/30/2006 | 625.48 | NR | - | NR | - | - |
| | 04/10/2006 | 625.48 | 7.13 | 618.35 | - | - | 618.35 |
| | 05/11/2006 | 625.48 | 7.33 | 618.15 | - | - | 618.15 |
| | 07/01/2008 | 625.48 | 7.05 | 618.43 | - | - | 618.43 |
| | 09/18/2008 | 625.48 | 7.46 | 618.02 | 7.40 | 0.06 | 618.07 |
| | 10/23/2008 | 625.48 | 7.87 | 617.61 | 7.86 | 0.01 | 617.62 |
| | 12/30/2008 | 625.48 | 5.40 | 620.08 | SHEEN | - | 620.08 |
| | 01/29/2009 | 625.48 | 6.23 | 619.25 | - | - | 619.25 |
| | 02/24/2009 | 625.48 | 6.15 | 619.33 | - | - | 619.33 |
| | 03/27/2009 | 625.48 | 6.12 | 619.36 | - | - | 619.36 |
| | 04/28/2009 | 625.48 | 7.08 | 618.40 | - | - | 618.40 |

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

**Area 1595**
**Fort Drum**

| Monitoring Well | Date | Top of Casing (ft) | Depth to Water (ft) | GW Elevation (ft) | Depth to Product (ft) | Product Thickness (ft) | Prod Adj GW Elevation (ft) |
|---|---|---|---|---|---|---|---|
| | 05/20/2009 | 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 | - | - |
| | 01/13/2010 | 625.48 | NR | - | NR | - | - |
| 1595-1-3S | 11/30/2005 | 632.55 | 10.76 | 621.79 | - | - | 621.79 |
| | 01/26/2006 | 632.55 | 10.28 | 622.27 | - | - | 622.27 |
| | 03/29/2006 | 632.55 | NR | - | NR | - | - |
| | 03/30/2006 | 632.55 | NR | - | NR | - | - |
| | 04/10/2006 | 632.55 | 10.47 | 622.08 | - | - | 622.08 |
| | 05/11/2006 | 632.55 | 10.71 | 621.84 | - | - | 621.84 |
| | 07/01/2008 | 632.55 | 11.05 | 621.50 | - | - | 621.50 |
| 1595-1-4S | 11/30/2005 | 634.07 | 13.63 | 620.44 | - | - | 620.44 |
| | 01/26/2006 | 634.07 | 13.09 | 620.98 | - | - | 620.98 |
| | 03/29/2006 | 634.07 | NR | - | NR | - | - |
| | 03/30/2006 | 634.07 | NR | - | NR | - | - |
| | 04/10/2006 | 634.07 | 13.26 | 620.81 | - | - | 620.81 |
| | 05/11/2006 | 634.07 | 13.48 | 620.59 | - | - | 620.59 |
| | 07/01/2008 | 634.07 | 13.80 | 620.27 | - | - | 620.27 |
| | 09/18/2008 | 634.07 | 13.10 | 620.97 | - | - | 620.97 |
| | 10/23/2008 | 634.07 | 13.50 | 620.57 | - | - | 620.57 |
| | 12/30/2008 | 634.07 | 11.64 | 622.43 | - | - | 622.43 |
| | 01/29/2009 | 634.07 | 12.35 | 621.72 | - | - | 621.72 |
| | 02/24/2009 | 634.07 | 12.28 | 621.79 | - | - | 621.79 |
| | 03/27/2009 | 634.07 | 12.34 | 621.73 | - | - | 621.73 |
| | 04/28/2009 | 634.07 | 12.91 | 621.16 | - | - | 621.16 |
| | 05/20/2009 | 634.07 | 12.26 | 621.81 | - | - | 621.81 |
| | 06/25/2009 | 634.07 | 13.16 | 620.91 | - | - | 620.91 |
| | 07/21/2009 | 634.07 | 12.92 | 621.15 | - | - | 621.15 |
| | 08/25/2009 | 634.07 | 13.52 | 620.55 | - | - | 620.55 |
| | 09/15/2009 | 634.07 | 13.83 | 620.24 | - | - | 620.24 |
| | 10/14/2009 | 634.07 | 14.73 | 619.34 | - | - | 619.34 |

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

**Area 1595**
**Fort Drum**

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

**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) |
|---|---|---|---|---|---|---|---|
| | 05/12/2010 | 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 | - | - |
| | 01/13/2010 | 629.84 | NR | - | NR | - | - |
| 1595-2-3S | 11/30/2005 | 631.58 | 7.28 | 624.30 | - | - | 624.30 |
| | 01/26/2006 | 631.58 | 6.81 | 624.77 | - | - | 624.77 |
| | 03/29/2006 | 631.58 | NR | - | NR | - | - |
| | 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 | - | - |
| | 01/13/2010 | 631.58 | NR | - | NR | - | - |
| 1595-2-4S | 11/30/2005 | 630.37 | 6.74 | 623.63 | - | - | 623.63 |
| | 01/26/2006 | 630.37 | 6.37 | 624.00 | - | - | 624.00 |
| | 03/29/2006 | 630.37 | NR | - | NR | - | - |
| | 03/30/2006 | 630.37 | NR | - | NR | - | - |

**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) |
|---|---|---|---|---|---|---|---|
| | 04/10/2006 | 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 | - | - |
| | 01/13/2010 | 632.99 | NR | - | NR | - | - |
| 1595-3-2S | 11/30/2005 | 633.68 | 7.53 | 626.15 | - | - | 626.15 |
| | 01/26/2006 | 633.68 | 6.81 | 626.87 | - | - | 626.87 |
| | 03/29/2006 | 633.68 | NR | - | NR | - | - |
| | 03/30/2006 | 633.68 | NR | - | NR | - | - |
| | 04/10/2006 | 633.68 | 7.22 | 626.46 | - | - | 626.46 |
| | 05/11/2006 | 633.68 | 7.52 | 626.16 | - | - | 626.16 |
| | 07/01/2008 | 633.68 | 8.00 | 625.68 | - | - | 625.68 |
| 1595-3-3S | 11/30/2005 | 637.45 | 11.43 | 626.02 | - | - | 626.02 |
| | 01/26/2006 | 637.45 | 10.64 | 626.81 | - | - | 626.81 |
| | 03/29/2006 | 637.45 | NR | - | NR | - | - |
| | 03/30/2006 | 637.45 | NR | - | NR | - | - |
| | 04/10/2006 | 637.45 | 11.21 | 626.24 | 11.01 | 0.20 | 626.39 |
| | 05/11/2006 | 637.45 | 11.38 | 626.07 | 11.32 | 0.06 | 626.12 |
| | 07/01/2008 | 637.45 | 10.95 | 626.50 | - | - | 626.50 |
| 1595-4-1S | 11/30/2005 | 634.24 | 6.94 | 627.30 | 6.62 | 0.32 | 627.54 |
| | 01/26/2006 | 634.24 | 5.11 | 629.13 | 5.03 | 0.08 | 629.19 |
| | 03/29/2006 | 634.24 | 5.01 | 629.23 | - | - | 629.23 |
| | 03/30/2006 | 634.24 | NR | - | NR | - | - |
| | 04/10/2006 | 634.24 | 5.44 | 628.80 | - | - | 628.80 |
| | 05/11/2006 | 634.24 | 5.78 | 628.46 | - | - | 628.46 |
| | 07/01/2008 | 634.24 | 6.30 | 627.94 | - | - | 627.94 |
| | 09/18/2008 | 634.24 | 6.89 | 627.35 | - | - | 627.35 |
| | 10/23/2008 | 634.24 | 7.22 | 627.02 | - | - | 627.02 |
| | 12/30/2008 | 634.24 | 5.11 | 629.13 | - | - | 629.13 |
| | 01/29/2009 | 634.24 | 5.18 | 629.06 | - | - | 629.06 |
| | 02/24/2009 | 634.24 | 5.25 | 628.99 | - | - | 628.99 |
| | 03/27/2009 | 634.24 | 4.82 | 629.42 | - | - | 629.42 |
| | 04/28/2009 | 634.24 | 5.88 | 628.36 | - | - | 628.36 |
| | 05/20/2009 | 634.24 | 4.68 | 629.56 | - | - | 629.56 |
| | 06/25/2009 | 634.24 | 5.23 | 629.01 | - | - | 629.01 |
| | 07/21/2009 | 634.24 | 6.55 | 627.69 | - | - | 627.69 |
| | 08/25/2009 | 634.24 | 6.82 | 627.42 | - | - | 627.42 |
| | 09/15/2009 | 634.24 | 7.27 | 626.97 | - | - | 626.97 |
| | 10/14/2009 | 634.24 | 8.56 | 625.68 | - | - | 625.68 |
| | 11/10/2009 | 634.24 | 7.35 | 626.89 | - | - | 626.89 |
| | 12/14/2009 | 634.24 | 8.51 | 625.73 | - | - | 625.73 |
| | 01/11/2010 | 634.24 | 8.82 | 625.42 | - | - | 625.42 |
| | 02/10/2010 | 634.24 | 8.39 | 625.85 | - | - | 625.85 |
| | 03/10/2010 | 634.24 | 7.39 | 626.85 | - | - | 626.85 |
| | 04/14/2010 | 634.24 | 8.35 | 625.89 | - | - | 625.89 |
| | 05/12/2010 | 634.24 | 8.79 | 625.45 | - | - | 625.45 |
| | 06/17/2010 | 634.24 | 9.11 | 625.13 | - | - | 625.13 |

**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) |
|---|---|---|---|---|---|---|---|
| | 07/14/2010 | 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 | - | - |
| | 01/13/2010 | 634.24 | NR | - | NR | - | - |
| 1595-4-2S | 11/30/2005 | 635.37 | 7.87 | 627.50 | 7.74 | 0.13 | 627.60 |
| | 01/26/2006 | 635.37 | 6.18 | 629.19 | 6.12 | 0.06 | 629.24 |
| | 03/29/2006 | 635.37 | 5.99 | 629.38 | - | - | 629.38 |
| | 03/30/2006 | 635.37 | NR | - | NR | - | - |
| | 04/10/2006 | 635.37 | 6.56 | 628.81 | - | - | 628.81 |
| | 05/11/2006 | 635.37 | 6.87 | 628.50 | - | - | 628.50 |
| | 07/01/2008 | 635.37 | 7.45 | 627.92 | - | - | 627.92 |
| 1595-4-3S | 11/30/2005 | 634.73 | 8.91 | 625.82 | 7.66 | 1.25 | 626.77 |
| | 01/26/2006 | 634.73 | 6.93 | 627.80 | 5.99 | 0.94 | 628.51 |
| | 03/29/2006 | 634.73 | 6.76 | 627.97 | - | - | 627.97 |
| | 03/30/2006 | 634.73 | 6.52 | 628.21 | 6.27 | 0.25 | 628.40 |
| | 04/10/2006 | 634.73 | 6.91 | 627.82 | 6.46 | 0.45 | 628.16 |
| | 05/11/2006 | 634.73 | 7.24 | 627.49 | 6.77 | 0.47 | 627.85 |
| | 07/01/2008 | 634.73 | 7.43 | 627.30 | 7.35 | 0.08 | 627.36 |
| | 09/18/2008 | 634.73 | 8.73 | 626.00 | - | - | 626.00 |
| | 10/23/2008 | 634.73 | 8.71 | 626.02 | SHEEN | - | 626.02 |
| | 12/30/2008 | 634.73 | 4.92 | 629.81 | - | - | 629.81 |
| | 01/29/2009 | 634.73 | 6.13 | 628.60 | - | - | 628.60 |
| | 02/24/2009 | 634.73 | 5.91 | 628.82 | - | - | 628.82 |
| | 03/27/2009 | 634.73 | 5.77 | 628.96 | - | - | 628.96 |
| | 04/28/2009 | 634.73 | 6.94 | 627.79 | - | - | 627.79 |
| | 05/20/2009 | 634.73 | 6.81 | 627.92 | - | - | 627.92 |
| | 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 | - | - |

**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) |
|---|---|---|---|---|---|---|---|
| | 01/13/2010 | 634.73 | NR | - | NR | - | - |
| 1595-4-4S | 11/30/2005 | 637.64 | 10.70 | 626.94 | 10.03 | 0.67 | 627.45 |
| | 01/26/2006 | 637.64 | 9.86 | 627.78 | 8.20 | 1.66 | 629.04 |
| | 03/29/2006 | 637.64 | 10.14 | 627.50 | - | - | 627.50 |
| | 03/30/2006 | 637.64 | 8.86 | 628.78 | 8.51 | 0.35 | 629.05 |
| | 04/10/2006 | 637.64 | 9.58 | 628.06 | 8.67 | 0.91 | 628.75 |
| | 05/11/2006 | 637.64 | 9.89 | 627.75 | 9.00 | 0.89 | 628.43 |
| | 07/01/2008 | 637.64 | 9.75 | 627.89 | 9.65 | 0.10 | 627.97 |
| | 09/18/2008 | 637.64 | 10.30 | 627.34 | - | - | 627.34 |
| | 10/23/2008 | 637.64 | 10.43 | 627.21 | - | - | 627.21 |
| | 12/30/2008 | 637.64 | 8.33 | 629.31 | - | - | 629.31 |
| | 01/29/2009 | 637.64 | 7.91 | 629.73 | - | - | 629.73 |
| | 02/24/2009 | 637.64 | 7.91 | 629.73 | - | - | 629.73 |
| | 03/27/2009 | 637.64 | 7.52 | 630.12 | - | - | 630.12 |
| | 04/28/2009 | 637.64 | 9.08 | 628.56 | 9.02 | 0.06 | 628.61 |
| | 05/20/2009 | 637.64 | 7.28 | 630.36 | - | - | 630.36 |
| | 06/25/2009 | 637.64 | 7.80 | 629.84 | 7.30 | 0.50 | 630.22 |
| | 07/21/2009 | 637.64 | 9.17 | 628.47 | - | - | 628.47 |
| | 08/25/2009 | 637.64 | 10.10 | 627.54 | - | - | 627.54 |
| | 09/15/2009 | 637.64 | 10.67 | 626.97 | 10.65 | 0.02 | 626.99 |
| | 10/14/2009 | 637.64 | 11.99 | 625.65 | 11.86 | 0.13 | 625.75 |
| | 11/10/2009 | 637.64 | 11.09 | 626.55 | 10.61 | 0.48 | 626.91 |
| | 12/14/2009 | 637.64 | 11.21 | 626.43 | - | - | 626.43 |
| | 01/11/2010 | 637.64 | 11.63 | 626.01 | 11.61 | 0.02 | 626.03 |
| | 02/10/2010 | 637.64 | 11.16 | 626.48 | - | - | 626.48 |
| | 03/10/2010 | 637.64 | 12.03 | 625.61 | - | - | 625.61 |
| | 04/14/2010 | 637.64 | 11.39 | 626.25 | - | - | 626.25 |
| | 05/12/2010 | 637.64 | 11.90 | 625.74 | - | - | 625.74 |
| | 06/17/2010 | 637.64 | 12.23 | 625.41 | - | - | 625.41 |
| | 07/14/2010 | 637.64 | 12.11 | 625.53 | - | - | 625.53 |
| | 08/09/2010 | 637.64 | 11.74 | 625.90 | - | - | 625.90 |
| | 09/16/2010 | 637.64 | 12.24 | 625.40 | - | - | 625.40 |
| | 10/13/2010 | 637.64 | 10.14 | 627.50 | - | - | 627.50 |
| | 11/16/2010 | 637.64 | 10.87 | 626.77 | - | - | 626.77 |
| | 12/16/2010 | 637.64 | NR | - | NR | - | - |
| | 01/13/2010 | 637.64 | NR | - | NR | - | - |
| 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 |

**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 | 636.66 | 7.92 | 628.74 | 7.52 | 0.40 | 629.04 |
| | 04/28/2009 | 636.66 | 8.99 | 627.67 | - | - | 627.67 |
| | 05/20/2009 | 636.66 | 8.82 | 627.84 | - | - | 627.84 |
| | 06/25/2009 | 636.66 | 8.32 | 628.34 | - | - | 628.34 |
| | 07/21/2009 | 636.66 | 9.26 | 627.40 | - | - | 627.40 |
| | 08/25/2009 | 636.66 | 10.05 | 626.61 | - | - | 626.61 |
| | 09/15/2009 | 636.66 | 10.66 | 626.00 | 10.65 | 0.01 | 626.01 |
| | 10/14/2009 | 636.66 | 11.69 | 624.97 | 11.61 | 0.08 | 625.03 |
| | 11/10/2009 | 636.66 | 10.82 | 625.84 | - | - | 625.84 |
| | 12/14/2009 | 636.66 | 10.96 | 625.70 | - | - | 625.70 |
| | 01/11/2010 | 636.66 | 11.13 | 625.53 | 11.10 | 0.03 | 625.55 |
| | 02/10/2010 | 636.66 | 10.68 | 625.98 | - | - | 625.98 |
| | 03/10/2010 | 636.66 | 11.02 | 625.64 | - | - | 625.64 |
| | 04/14/2010 | 636.66 | 10.61 | 626.05 | - | - | 626.05 |
| | 05/12/2010 | 636.66 | 11.05 | 625.61 | - | - | 625.61 |
| | 06/17/2010 | 636.66 | 11.39 | 625.27 | - | - | 625.27 |
| | 07/14/2010 | 636.66 | 11.29 | 625.37 | - | - | 625.37 |
| | 08/09/2010 | 636.66 | 10.97 | 625.69 | - | - | 625.69 |
| | 09/16/2010 | 636.66 | 11.42 | 625.24 | - | - | 625.24 |
| | 10/13/2010 | 636.66 | 9.63 | 627.03 | - | - | 627.03 |
| | 11/16/2010 | 636.66 | 10.15 | 626.51 | - | - | 626.51 |
| | 12/16/2010 | 636.66 | NR | - | NR | - | - |
| | 01/13/2010 | 636.66 | NR | - | NR | - | - |
| 1595-4-6S | 11/30/2005 | 637.66 | 10.09 | 627.57 | - | - | 627.57 |
| | 01/26/2006 | 637.66 | 9.02 | 628.64 | - | - | 628.64 |
| | 03/29/2006 | 637.66 | NR | - | NR | - | - |
| | 03/30/2006 | 637.66 | NR | - | NR | - | - |
| | 04/10/2006 | 637.66 | 9.44 | 628.22 | - | - | 628.22 |
| | 05/11/2006 | 637.66 | 9.76 | 627.90 | - | - | 627.90 |
| | 07/01/2008 | 637.66 | 10.25 | 627.41 | - | - | 627.41 |
| | 09/18/2008 | 637.66 | 9.89 | 627.77 | - | - | 627.77 |
| | 10/23/2008 | 637.66 | 10.40 | 627.26 | - | - | 627.26 |
| | 12/30/2008 | 637.66 | 6.72 | 630.94 | - | - | 630.94 |
| | 01/29/2009 | 637.66 | 8.60 | 629.06 | - | - | 629.06 |
| | 02/24/2009 | 637.66 | 8.76 | 628.90 | - | - | 628.90 |
| | 03/27/2009 | 637.66 | 7.82 | 629.84 | - | - | 629.84 |
| | 04/28/2009 | 637.66 | 8.79 | 628.87 | - | - | 628.87 |
| | 05/20/2009 | 637.66 | 8.19 | 629.47 | - | - | 629.47 |
| | 06/25/2009 | 637.66 | 8.91 | 628.75 | - | - | 628.75 |
| | 07/21/2009 | 637.66 | 9.41 | 628.25 | - | - | 628.25 |
| | 08/25/2009 | 637.66 | 10.30 | 627.36 | - | - | 627.36 |
| | 09/15/2009 | 637.66 | 10.68 | 626.98 | - | - | 626.98 |
| | 10/14/2009 | 637.66 | 11.65 | 626.01 | - | - | 626.01 |
| | 11/10/2009 | 637.66 | 11.16 | 626.50 | - | - | 626.50 |
| | 12/14/2009 | 637.66 | 10.87 | 626.79 | - | - | 626.79 |
| | 01/11/2010 | 637.66 | 12.06 | 625.60 | - | - | 625.60 |
| | 02/10/2010 | 637.66 | 11.66 | 626.00 | - | - | 626.00 |
| | 03/10/2010 | 637.66 | 11.69 | 625.97 | - | - | 625.97 |
| | 04/14/2010 | 637.66 | 11.48 | 626.18 | - | - | 626.18 |

**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) |
|---|---|---|---|---|---|---|---|
| | 05/12/2010 | 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 | - | - |
| | 01/13/2010 | 637.66 | NR | - | NR | - | - |
| 1595-5-1S | 11/30/2005 | 638.53 | 9.72 | 628.81 | - | - | 628.81 |
| | 01/26/2006 | 638.53 | 8.89 | 629.64 | - | - | 629.64 |
| | 03/29/2006 | 638.53 | NR | - | NR | - | - |
| | 03/30/2006 | 638.53 | NR | - | NR | - | - |
| | 04/10/2006 | 638.53 | 9.32 | 629.21 | - | - | 629.21 |
| | 05/11/2006 | 638.53 | 9.69 | 628.84 | - | - | 628.84 |
| | 07/01/2008 | 638.53 | 10.15 | 628.38 | - | - | 628.38 |
| 1595-5-2S | 11/30/2005 | 639.28 | 10.62 | 628.66 | - | - | 628.66 |
| | 01/26/2006 | 639.28 | 9.66 | 629.62 | - | - | 629.62 |
| | 03/29/2006 | 639.28 | NR | - | NR | - | - |
| | 03/30/2006 | 639.28 | NR | - | NR | - | - |
| | 04/10/2006 | 639.28 | 10.05 | 629.23 | - | - | 629.23 |
| | 05/11/2006 | 639.28 | 10.39 | 628.89 | - | - | 628.89 |
| | 07/01/2008 | 639.28 | 10.90 | 628.38 | - | - | 628.38 |
| 1595-5-3S | 11/30/2005 | 639.57 | 11.04 | 628.53 | - | - | 628.53 |
| | 01/26/2006 | 639.57 | 10.09 | 629.48 | - | - | 629.48 |
| | 03/29/2006 | 639.57 | NR | - | NR | - | - |
| | 03/30/2006 | 639.57 | NR | - | NR | - | - |
| | 04/10/2006 | 639.57 | 10.46 | 629.11 | - | - | 629.11 |
| | 05/11/2006 | 639.57 | 10.81 | 628.76 | - | - | 628.76 |
| | 07/01/2008 | 639.57 | 11.25 | 628.32 | - | - | 628.32 |
| 1595-5-4S | 11/30/2005 | 639.73 | 11.09 | 628.64 | - | - | 628.64 |
| | 01/26/2006 | 639.73 | 10.05 | 629.68 | - | - | 629.68 |
| | 03/29/2006 | 639.73 | NR | - | NR | - | - |
| | 03/30/2006 | 639.73 | NR | - | NR | - | - |
| | 04/10/2006 | 639.73 | 10.45 | 629.28 | - | - | 629.28 |
| | 05/11/2006 | 639.73 | 10.78 | 628.95 | - | - | 628.95 |
| | 07/01/2008 | 639.73 | 11.20 | 628.53 | - | - | 628.53 |
| 1595-5-5S | 11/30/2005 | 639.84 | 11.27 | 628.57 | - | - | 628.57 |
| | 01/26/2006 | 639.84 | 10.10 | 629.74 | - | - | 629.74 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| 1595-6-1S | 11/30/2005 | 639.23 | 9.63 | 629.60 | - | - | 629.60 |
| | 01/26/2006 | 639.23 | 8.89 | 630.34 | - | - | 630.34 |
| | 03/29/2006 | 639.23 | NR | - | NR | - | - |
| | 03/30/2006 | 639.23 | NR | - | NR | - | - |
| | 04/10/2006 | 639.23 | 9.28 | 629.95 | - | - | 629.95 |
| | 05/11/2006 | 639.23 | 9.90 | 629.33 | 9.62 | 0.28 | 629.54 |
| | 07/01/2008 | 639.23 | 9.05 | 630.18 | - | - | 630.18 |
| 1595-6-2S | 11/30/2005 | 639.51 | 9.90 | 629.61 | - | - | 629.61 |
| | 01/26/2006 | 639.51 | 9.06 | 630.45 | - | - | 630.45 |
| | 03/29/2006 | 639.51 | NR | - | NR | - | - |
| | 03/30/2006 | 639.51 | NR | - | NR | - | - |
| | 04/10/2006 | 639.51 | 9.40 | 630.11 | - | - | 630.11 |
| | 05/11/2006 | 639.51 | 9.75 | 629.76 | - | - | 629.76 |
| | 07/01/2008 | 639.51 | 10.10 | 629.41 | - | - | 629.41 |
| 1595-6-3S | 11/30/2005 | 640.36 | 10.30 | 630.06 | - | - | 630.06 |
| | 01/26/2006 | 640.36 | 9.35 | 631.01 | - | - | 631.01 |
| | 03/29/2006 | 640.36 | NR | - | NR | - | - |
| | 03/30/2006 | 640.36 | NR | - | NR | - | - |
| | 04/10/2006 | 640.36 | 9.61 | 630.75 | - | - | 630.75 |
| | 05/11/2006 | 640.36 | 9.97 | 630.39 | - | - | 630.39 |
| | 07/01/2008 | 640.36 | 10.35 | 630.01 | - | - | 630.01 |
| 1595-6-4S | 11/30/2005 | 639.74 | 9.94 | 629.80 | - | - | 629.80 |
| | 01/26/2006 | 639.74 | 9.12 | 630.62 | - | - | 630.62 |
| | 03/29/2006 | 639.74 | NR | - | NR | - | - |
| | 03/30/2006 | 639.74 | NR | - | NR | - | - |
| | 04/10/2006 | 639.74 | 9.44 | 630.30 | - | - | 630.30 |
| | 05/11/2006 | 639.74 | 9.79 | 629.95 | - | - | 629.95 |
| | 07/01/2008 | 639.74 | 10.05 | 629.69 | - | - | 629.69 |
| 1595-6-5S | 11/30/2005 | 640.45 | 10.19 | 630.26 | - | - | 630.26 |
| | 01/26/2006 | 640.45 | 9.72 | 630.73 | - | - | 630.73 |
| | 03/29/2006 | 640.45 | NR | - | NR | - | - |
| | 03/30/2006 | 640.45 | NR | - | NR | - | - |
| | 04/10/2006 | 640.45 | 9.43 | 631.02 | - | - | 631.02 |
| | 05/11/2006 | 640.45 | 9.80 | 630.65 | - | - | 630.65 |
| | 07/01/2008 | 640.45 | 10.05 | 630.40 | - | - | 630.40 |
| 1595-6-6S | 11/30/2005 | 640.02 | 10.38 | 629.64 | - | - | 629.64 |
| | 01/26/2006 | 640.02 | 9.34 | 630.68 | - | - | 630.68 |
| | 03/29/2006 | 640.02 | NR | - | NR | - | - |
| | 03/30/2006 | 640.02 | NR | - | NR | - | - |
| | 04/10/2006 | 640.02 | 9.66 | 630.36 | - | - | 630.36 |
| | 05/11/2006 | 640.02 | 10.03 | 629.99 | - | - | 629.99 |
| | 07/01/2008 | 640.02 | 10.30 | 629.72 | - | - | 629.72 |
| 1595-MW1A | 09/15/2004 | NR | 13.21 | - | - | - | - |
| | 04/19/2005 | NR | 11.93 | - | - | - | - |

**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) |
|---|---|---|---|---|---|---|---|
| | | 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 | | | | | |

**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-MWS1 | 09/15/2004 | NR | 10.09 | - | - | - | - |
| | 04/19/2005 | NR | 9.21 | - | - | - | - |
| | 04/24/2006 | NR | 8.67 | - | - | - | - |
| | 10/03/2006 | NR | 9.96 | - | - | - | - |
| | 05/22/2007 | NR | 8.58 | - | - | - | - |
| 1595-MWS2 | 09/07/2004 | 642.18 | 16.18 | 626.00 | - | - | 626.00 |
| | 09/15/2004 | 642.18 | 15.66 | 626.52 | - | - | 626.52 |
| | 10/04/2004 | 642.18 | 16.19 | 625.99 | - | - | 625.99 |
| | 11/08/2004 | 642.18 | 16.63 | 625.55 | - | - | 625.55 |
| | 12/01/2004 | 642.18 | 16.89 | 625.29 | - | - | 625.29 |
| | 01/04/2005 | 642.18 | 15.36 | 626.82 | - | - | 626.82 |
| | 02/01/2005 | 642.18 | 15.30 | 626.88 | - | - | 626.88 |
| | 03/03/2005 | 642.18 | 15.78 | 626.40 | - | - | 626.40 |
| | 04/08/2005 | 642.18 | 14.85 | 627.33 | - | - | 627.33 |
| | 04/19/2005 | 642.18 | 14.53 | 627.65 | - | - | 627.65 |
| | 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 |

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

**Area 1595**
**Fort Drum**

| Monitoring Well | Date | Top of Casing (ft) | Depth to Water (ft) | GW Elevation (ft) | Depth to Product (ft) | Product Thickness (ft) | Prod Adj GW Elevation (ft) |
|---|---|---|---|---|---|---|---|
| | 04/19/2005 | 629.00 | 9.40 | 619.60 | - | - | 619.60 |
| | 04/21/2005 | 629.00 | 9.50 | 619.50 | - | - | 619.50 |
| | 05/02/2005 | 629.00 | 8.36 | 620.64 | - | - | 620.64 |
| | 05/19/2005 | 629.00 | 9.54 | 619.46 | - | - | 619.46 |
| | 06/08/2005 | 629.00 | 9.63 | 619.37 | - | - | 619.37 |
| | 06/17/2005 | 629.00 | 9.66 | 619.34 | - | - | 619.34 |
| | 04/24/2006 | 629.00 | 7.39 | 621.61 | - | - | 621.61 |
| | 10/03/2006 | 629.00 | 8.80 | 620.20 | - | - | 620.20 |
| | 05/22/2007 | 629.00 | 7.49 | 621.51 | - | - | 621.51 |
| 1595-MWS8 | 12/05/2002 | 630.80 | 11.42 | 619.38 | - | - | 619.38 |
| | 12/13/2002 | 630.80 | 11.22 | 619.58 | - | - | 619.58 |
| | 12/17/2002 | 630.80 | 10.67 | 620.13 | - | - | 620.13 |
| | 12/23/2002 | 630.80 | 11.38 | 619.42 | - | - | 619.42 |
| | 12/27/2002 | 630.80 | NR | - | NR | - | - |
| | 01/09/2003 | 630.80 | 10.79 | 620.01 | - | - | 620.01 |
| | 01/22/2003 | 630.80 | 11.76 | 619.04 | - | - | 619.04 |
| | 01/28/2003 | 630.80 | 11.83 | 618.97 | - | - | 618.97 |
| | 02/07/2003 | 630.80 | 11.75 | 619.05 | - | - | 619.05 |
| | 02/12/2003 | 630.80 | 11.73 | 619.07 | - | - | 619.07 |
| | 02/18/2003 | 630.80 | 11.63 | 619.17 | - | - | 619.17 |
| | 09/07/2004 | 630.80 | 11.29 | 619.51 | - | - | 619.51 |
| | 09/15/2004 | 630.80 | 10.61 | 620.19 | - | - | 620.19 |
| | 09/21/2004 | 630.80 | 11.08 | 619.72 | - | - | 619.72 |
| | 10/04/2004 | 630.80 | 11.39 | 619.41 | - | - | 619.41 |
| | 10/19/2004 | 630.80 | 10.32 | 620.48 | - | - | 620.48 |
| | 10/29/2004 | 630.80 | 10.87 | 619.93 | - | - | 619.93 |
| | 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 |

**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-MWS9 | 12/05/2002 | 623.20 | 6.10 | 617.10 | - | - | 617.10 |
| | 12/13/2002 | 623.20 | 6.12 | 617.08 | - | - | 617.08 |
| | 12/17/2002 | 623.20 | 5.55 | 617.65 | - | - | 617.65 |
| | 12/23/2002 | 623.20 | 6.00 | 617.20 | - | - | 617.20 |
| | 12/27/2002 | 623.20 | 5.99 | 617.21 | - | - | 617.21 |
| | 01/09/2003 | 623.20 | 5.73 | 617.47 | - | - | 617.47 |
| | 01/22/2003 | 623.20 | 6.42 | 616.78 | - | - | 616.78 |
| | 01/28/2003 | 623.20 | 6.49 | 616.71 | - | - | 616.71 |
| | 02/07/2003 | 623.20 | 6.34 | 616.86 | - | - | 616.86 |
| | 02/12/2003 | 623.20 | 6.29 | 616.91 | - | - | 616.91 |
| | 02/18/2003 | 623.20 | 6.29 | 616.91 | - | - | 616.91 |
| | 09/07/2004 | 623.20 | 6.13 | 617.07 | - | - | 617.07 |
| | 09/15/2004 | 623.20 | 5.69 | 617.51 | - | - | 617.51 |
| | 09/21/2004 | 623.20 | 5.94 | 617.26 | - | - | 617.26 |
| | 10/04/2004 | 623.20 | 6.19 | 617.01 | - | - | 617.01 |
| | 10/19/2004 | 623.20 | 5.32 | 617.88 | - | - | 617.88 |
| | 10/29/2004 | 623.20 | 5.79 | 617.41 | - | - | 617.41 |
| | 11/08/2004 | 623.20 | 6.32 | 616.88 | - | - | 616.88 |
| | 12/01/2004 | 623.20 | 6.06 | 617.14 | - | - | 617.14 |
| | 12/16/2004 | 623.20 | 5.59 | 617.61 | - | - | 617.61 |
| | 12/23/2004 | 623.20 | 5.26 | 617.94 | - | - | 617.94 |
| | 01/04/2005 | 623.20 | 5.09 | 618.11 | - | - | 618.11 |
| | 01/13/2005 | 623.20 | 5.31 | 617.89 | - | - | 617.89 |
| | 02/01/2005 | 623.20 | 5.66 | 617.54 | - | - | 617.54 |
| | 02/23/2005 | 623.20 | 5.47 | 617.73 | - | - | 617.73 |
| | 03/03/2005 | 623.20 | 5.58 | 617.62 | - | - | 617.62 |
| | 03/15/2005 | 623.20 | 5.46 | 617.74 | - | - | 617.74 |
| | 04/08/2005 | 623.20 | 4.75 | 618.45 | - | - | 618.45 |
| | 04/19/2005 | 623.20 | 4.96 | 618.24 | - | - | 618.24 |
| | 04/21/2005 | 623.20 | 5.01 | 618.19 | - | - | 618.19 |
| | 05/02/2005 | 623.20 | 4.45 | 618.75 | - | - | 618.75 |
| | 05/19/2005 | 623.20 | 5.04 | 618.16 | - | - | 618.16 |
| | 06/08/2005 | 623.20 | 5.11 | 618.09 | - | - | 618.09 |
| | 06/17/2005 | 623.20 | 5.13 | 618.07 | - | - | 618.07 |
| | 04/24/2006 | 623.20 | 3.86 | 619.34 | - | - | 619.34 |
| | 10/03/2006 | 623.20 | 4.80 | 618.40 | - | - | 618.40 |
| | 05/22/2007 | 623.20 | 4.02 | 619.18 | - | - | 619.18 |
| 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 | - | - | - | - |

**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-MW35 | 09/15/2004 | NR | 14.66 | - | - | - | - |
| | 04/19/2005 | NR | 14.79 | - | - | - | - |
| | 04/24/2006 | NR | 12.25 | - | - | - | - |
| | 10/03/2006 | NR | 15.22 | - | - | - | - |
| | 05/22/2007 | NR | 11.92 | - | - | - | - |
| 1595-OBG1 | 09/15/2004 | NR | 18.91 | - | - | - | - |
| | 04/19/2005 | NR | 17.63 | - | - | - | - |
| | 04/24/2006 | NR | 16.06 | - | - | - | - |
| | 10/03/2006 | NR | 18.13 | - | - | - | - |
| | 05/22/2007 | NR | 15.47 | - | - | - | - |
| 1595-OBG2 | 12/05/2002 | 637.98 | 14.70 | 623.28 | - | - | 623.28 |
| | 12/13/2002 | 637.98 | 14.57 | 623.41 | - | - | 623.41 |
| | 12/17/2002 | 637.98 | 14.83 | 623.15 | - | - | 623.15 |
| | 12/23/2002 | 637.98 | 14.30 | 623.68 | - | - | 623.68 |
| | 12/27/2002 | 637.98 | 16.88 | 621.10 | - | - | 621.10 |
| | 01/09/2003 | 637.98 | 14.08 | 623.90 | - | - | 623.90 |
| | 01/22/2003 | 637.98 | NR | - | NR | - | - |
| | 01/28/2003 | 637.98 | NR | - | NR | - | - |
| | 02/07/2003 | 637.98 | NR | - | NR | - | - |
| | 02/12/2003 | 637.98 | NR | - | NR | - | - |
| | 09/07/2004 | 637.98 | 13.82 | 624.16 | - | - | 624.16 |
| | 09/15/2004 | 637.98 | 13.28 | 624.70 | - | - | 624.70 |
| | 09/21/2004 | 637.98 | 13.44 | 624.54 | - | - | 624.54 |
| | 10/04/2004 | 637.98 | 13.79 | 624.19 | - | - | 624.19 |
| | 10/19/2004 | 637.98 | 13.82 | 624.16 | - | - | 624.16 |
| | 10/29/2004 | 637.98 | 14.08 | 623.90 | - | - | 623.90 |
| | 11/08/2004 | 637.98 | 14.40 | 623.58 | - | - | 623.58 |
| | 12/01/2004 | 637.98 | 14.47 | 623.51 | - | - | 623.51 |
| | 12/16/2004 | 637.98 | 13.59 | 624.39 | 13.25 | 0.34 | 624.65 |
| | 12/23/2004 | 637.98 | 13.50 | 624.48 | 13.06 | 0.44 | 624.81 |
| | 01/04/2005 | 637.98 | 12.80 | 625.18 | 12.78 | 0.02 | 625.20 |
| | 01/13/2005 | 637.98 | 12.94 | 625.04 | 12.75 | 0.19 | 625.18 |
| | 02/01/2005 | 637.98 | 12.84 | 625.14 | 12.70 | 0.14 | 625.25 |
| | 02/23/2005 | 637.98 | 13.05 | 624.93 | - | - | 624.93 |
| | 03/03/2005 | 637.98 | 13.23 | 624.75 | - | - | 624.75 |
| | 03/15/2005 | 637.98 | 13.26 | 624.72 | - | - | 624.72 |
| | 04/08/2005 | 637.98 | 12.06 | 625.92 | 11.88 | 0.18 | 626.06 |
| | 04/19/2005 | 637.98 | 12.26 | 625.72 | 11.80 | 0.46 | 626.07 |
| | 04/21/2005 | 637.98 | 12.45 | 625.53 | 11.90 | 0.55 | 625.95 |
| | 05/02/2005 | 637.98 | 11.98 | 626.00 | 11.92 | 0.06 | 626.05 |
| | 05/19/2005 | 637.98 | 12.18 | 625.80 | 12.07 | 0.11 | 625.88 |
| | 06/08/2005 | 637.98 | 12.47 | 625.51 | - | - | 625.51 |
| | 06/17/2005 | 637.98 | 12.73 | 625.25 | - | - | 625.25 |
| | 04/24/2006 | 637.98 | 10.86 | 627.12 | 10.67 | 0.19 | 627.26 |
| | 10/03/2006 | 637.98 | 12.32 | 625.66 | - | - | 625.66 |
| | 05/22/2007 | 637.98 | 10.63 | 627.35 | 10.44 | 0.19 | 627.49 |
| | 04/28/2009 | 637.98 | 10.00 | 627.98 | 9.99 | 0.01 | 627.99 |

**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) |
|---|---|---|---|---|---|---|---|
| | 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 | - | - |
| | 01/13/2010 | 637.98 | NR | - | NR | - | - |
| 1595-OBG3 | 12/05/2002 | 636.87 | 15.92 | 620.95 | - | - | 620.95 |
| | 12/13/2002 | 636.87 | 15.70 | 621.17 | - | - | 621.17 |
| | 12/17/2002 | 636.87 | 15.23 | 621.64 | - | - | 621.64 |
| | 12/23/2002 | 636.87 | 15.48 | 621.39 | - | - | 621.39 |
| | 12/27/2002 | 636.87 | 15.27 | 621.60 | - | - | 621.60 |
| | 01/09/2003 | 636.87 | 14.95 | 621.92 | - | - | 621.92 |
| | 01/22/2003 | 636.87 | 15.66 | 621.21 | - | - | 621.21 |
| | 01/28/2003 | 636.87 | 15.76 | 621.11 | - | - | 621.11 |
| | 02/07/2003 | 636.87 | 15.90 | 620.97 | - | - | 620.97 |
| | 02/12/2003 | 636.87 | 15.83 | 621.04 | - | - | 621.04 |
| | 02/18/2003 | 636.87 | 15.78 | 621.09 | - | - | 621.09 |
| | 09/07/2004 | 636.87 | 15.29 | 621.58 | - | - | 621.58 |
| | 09/15/2004 | 636.87 | 14.68 | 622.19 | - | - | 622.19 |
| | 09/21/2004 | 636.87 | 14.97 | 621.90 | - | - | 621.90 |
| | 10/04/2004 | 636.87 | 15.32 | 621.55 | - | - | 621.55 |
| | 10/19/2004 | 636.87 | 14.85 | 622.02 | - | - | 622.02 |
| | 10/29/2004 | 636.87 | 15.23 | 621.64 | - | - | 621.64 |
| | 11/08/2004 | 636.87 | 15.78 | 621.09 | - | - | 621.09 |
| | 12/01/2004 | 636.87 | 15.75 | 621.12 | - | - | 621.12 |
| | 12/16/2004 | 636.87 | 14.57 | 622.30 | - | - | 622.30 |
| | 12/23/2004 | 636.87 | 14.41 | 622.46 | - | - | 622.46 |
| | 01/04/2005 | 636.87 | 14.00 | 622.87 | - | - | 622.87 |
| | 01/13/2005 | 636.87 | 14.19 | 622.68 | - | - | 622.68 |
| | 02/01/2005 | 636.87 | 14.29 | 622.58 | - | - | 622.58 |
| | 02/23/2005 | 636.87 | 14.46 | 622.41 | - | - | 622.41 |
| | 03/03/2005 | 636.87 | 14.65 | 622.22 | - | - | 622.22 |
| | 03/15/2005 | 636.87 | 14.60 | 622.27 | - | - | 622.27 |
| | 04/08/2005 | 636.87 | 13.11 | 623.76 | - | - | 623.76 |

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

**Area 1595**
**Fort Drum**

| Monitoring Well | Date | Top of Casing (ft) | Depth to Water (ft) | GW Elevation (ft) | Depth to Product (ft) | Product Thickness (ft) | Prod Adj GW Elevation (ft) |
|---|---|---|---|---|---|---|---|
| | 04/19/2005 | 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 | - | - | - | - |
| 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 12/27/2002 | 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 |

**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 | 630.29 | 13.51 | 616.78 | - | - | 616.78 |
| | 11/08/2004 | 630.29 | 14.50 | 615.79 | - | - | 615.79 |
| | 12/01/2004 | 630.29 | 14.41 | 615.88 | - | - | 615.88 |
| | 12/16/2004 | 630.29 | 14.06 | 616.23 | - | - | 616.23 |
| | 12/23/2004 | 630.29 | 12.86 | 617.43 | - | - | 617.43 |
| | 01/04/2005 | 630.29 | 13.15 | 617.14 | - | - | 617.14 |
| | 01/13/2005 | 630.29 | 13.26 | 617.03 | - | - | 617.03 |
| | 02/01/2005 | 630.29 | 13.52 | 616.77 | - | - | 616.77 |
| | 02/23/2005 | 630.29 | 13.52 | 616.77 | - | - | 616.77 |
| | 03/03/2005 | 630.29 | 13.60 | 616.69 | - | - | 616.69 |
| | 03/15/2005 | 630.29 | 13.33 | 616.96 | - | - | 616.96 |
| | 04/08/2005 | 630.29 | 12.65 | 617.64 | - | - | 617.64 |
| | 04/19/2005 | 630.29 | 12.80 | 617.49 | - | - | 617.49 |
| | 04/21/2005 | 630.29 | 12.85 | 617.44 | - | - | 617.44 |
| | 05/02/2005 | 630.29 | 11.55 | 618.74 | - | - | 618.74 |
| | 05/19/2005 | 630.29 | 12.10 | 618.19 | - | - | 618.19 |
| | 06/08/2005 | 630.29 | 12.12 | 618.17 | - | - | 618.17 |
| | 06/17/2005 | 630.29 | 12.30 | 617.99 | - | - | 617.99 |
| | 04/24/2006 | 630.29 | 7.57 | 622.72 | - | - | 622.72 |
| | 10/03/2006 | 630.29 | 12.01 | 618.28 | - | - | 618.28 |
| | 05/22/2007 | 630.29 | 10.45 | 619.84 | - | - | 619.84 |
| 1595-PZ9 | 09/07/2004 | 630.77 | 10.67 | 620.10 | - | - | 620.10 |
| | 09/15/2005 | 630.77 | 9.50 | 621.27 | - | - | 621.27 |
| | 10/04/2004 | 630.77 | 10.84 | 619.93 | - | - | 619.93 |
| | 11/08/2004 | 630.77 | 11.43 | 619.34 | - | - | 619.34 |
| | 12/01/2004 | 630.77 | 10.88 | 619.89 | - | - | 619.89 |
| | 01/04/2005 | 630.77 | 9.32 | 621.45 | - | - | 621.45 |
| | 02/01/2005 | 630.77 | 9.91 | 620.86 | - | - | 620.86 |
| | 03/03/2005 | 630.77 | 9.97 | 620.80 | - | - | 620.80 |
| | 04/08/2005 | 630.77 | 8.54 | 622.23 | - | - | 622.23 |
| | 04/19/2005 | 630.77 | 8.89 | 621.88 | - | - | 621.88 |
| | 05/02/2005 | 630.77 | 8.38 | 622.39 | - | - | 622.39 |
| | 06/08/2005 | 630.77 | 9.31 | 621.46 | - | - | 621.46 |
| | 04/24/2006 | 630.77 | 7.78 | 622.99 | - | - | 622.99 |
| | 10/03/2006 | 630.77 | 9.08 | 621.69 | - | - | 621.69 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 04/24/2006 | 640.33 | 13.29 | 627.04 | - | - | 627.04 |
| | 10/03/2006 | 640.33 | 15.87 | 624.46 | - | - | 624.46 |
| | 05/22/2007 | 640.33 | 13.03 | 627.30 | - | - | 627.30 |
| 1595-PZ11 | 12/05/2002 | 639.63 | 17.60 | 622.03 | - | - | 622.03 |
| | 12/13/2002 | 639.63 | 17.40 | 622.23 | - | - | 622.23 |
| | 12/17/2002 | 639.63 | 16.95 | 622.68 | - | - | 622.68 |
| | 12/23/2002 | 639.63 | 17.06 | 622.57 | - | - | 622.57 |
| | 12/27/2002 | 639.63 | 16.78 | 622.85 | - | - | 622.85 |
| | 01/09/2003 | 639.63 | 16.48 | 623.15 | - | - | 623.15 |
| | 01/22/2003 | 639.63 | 16.99 | 622.64 | - | - | 622.64 |
| | 01/28/2003 | 639.63 | 17.09 | 622.54 | - | - | 622.54 |
| | 02/07/2003 | 639.63 | 17.40 | 622.23 | - | - | 622.23 |
| | 02/12/2003 | 639.63 | 17.06 | 622.57 | - | - | 622.57 |
| | 02/18/2003 | 639.63 | 17.30 | 622.33 | - | - | 622.33 |
| | 09/07/2004 | 639.63 | 16.64 | 622.99 | - | - | 622.99 |
| | 09/15/2004 | 639.63 | 16.21 | 623.42 | - | - | 623.42 |
| | 09/21/2004 | 639.63 | 16.35 | 623.28 | - | - | 623.28 |
| | 10/04/2004 | 639.63 | 16.59 | 623.04 | - | - | 623.04 |
| | 10/19/2004 | 639.63 | 16.48 | 623.15 | - | - | 623.15 |
| | 10/29/2004 | 639.63 | 16.79 | 622.84 | - | - | 622.84 |
| | 11/08/2004 | 639.63 | 17.22 | 622.41 | - | - | 622.41 |
| | 12/01/2004 | 639.63 | 17.27 | 622.36 | - | - | 622.36 |
| | 12/16/2004 | 639.63 | 16.07 | 623.56 | - | - | 623.56 |
| | 12/23/2004 | 639.63 | 15.89 | 623.74 | - | - | 623.74 |
| | 01/04/2005 | 639.63 | 15.55 | 624.08 | - | - | 624.08 |
| | 01/13/2005 | 639.63 | 15.59 | 624.04 | - | - | 624.04 |
| | 02/01/2005 | 639.63 | 15.52 | 624.11 | - | - | 624.11 |
| | 02/23/2005 | 639.63 | 15.89 | 623.74 | - | - | 623.74 |
| | 03/03/2005 | 639.63 | 16.08 | 623.55 | - | - | 623.55 |
| | 03/15/2005 | 639.63 | 16.08 | 623.55 | - | - | 623.55 |
| | 04/08/2005 | 639.63 | 14.57 | 625.06 | - | - | 625.06 |
| | 04/19/2005 | 639.63 | 14.63 | 625.00 | - | - | 625.00 |
| | 04/21/2005 | 639.63 | 14.72 | 624.91 | - | - | 624.91 |
| | 05/02/2005 | 639.63 | 14.62 | 625.01 | - | - | 625.01 |
| | 05/19/2005 | 639.63 | 14.84 | 624.79 | - | - | 624.79 |
| | 06/08/2005 | 639.63 | 15.18 | 624.45 | - | - | 624.45 |
| | 06/17/2005 | 639.63 | 15.45 | 624.18 | - | - | 624.18 |
| | 04/24/2006 | 639.63 | 13.22 | 626.41 | - | - | 626.41 |
| | 10/03/2006 | 639.63 | 15.65 | 623.98 | - | - | 623.98 |
| | 05/22/2007 | 639.63 | 13.04 | 626.59 | - | - | 626.59 |
| 1595-PZ12 | 09/07/2004 | 637.87 | 15.52 | 622.35 | - | - | 622.35 |
| | 09/15/2005 | 637.87 | 15.01 | 622.86 | - | - | 622.86 |
| | 10/04/2004 | 637.87 | 15.52 | 622.35 | - | - | 622.35 |
| | 11/08/2004 | 637.87 | 16.03 | 621.84 | - | - | 621.84 |
| | 12/01/2004 | 637.87 | 16.27 | 621.60 | - | - | 621.60 |
| | 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 |

**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 | 637.87 | 14.18 | 623.69 | - | - | 623.69 |
| | 04/19/2005 | 637.87 | 5.87 | 632.00 | - | - | 632.00 |
| | 05/02/2005 | 637.87 | 13.92 | 623.95 | - | - | 623.95 |
| | 06/08/2005 | 637.87 | 14.44 | 623.43 | - | - | 623.43 |
| | 04/24/2006 | 637.87 | 12.41 | 625.46 | - | - | 625.46 |
| | 10/03/2006 | 637.87 | 15.16 | 622.71 | - | - | 622.71 |
| | 05/22/2007 | 637.87 | 12.08 | 625.79 | - | - | 625.79 |
| 1595-PZ13 | 09/07/2004 | 654.40 | 11.82 | 642.58 | - | - | 642.58 |
| | 09/15/2005 | 654.40 | 11.99 | 642.41 | - | - | 642.41 |
| | 10/04/2004 | 654.40 | 11.83 | 642.57 | - | - | 642.57 |
| | 11/08/2004 | 654.40 | 12.34 | 642.06 | - | - | 642.06 |
| | 01/04/2005 | 654.40 | 11.16 | 643.24 | - | - | 643.24 |
| | 02/01/2005 | 654.40 | 10.96 | 643.44 | - | - | 643.44 |
| | 04/08/2005 | 654.40 | 10.64 | 643.76 | - | - | 643.76 |
| | 04/19/2005 | 654.40 | 10.20 | 644.20 | - | - | 644.20 |
| | 05/02/2005 | 654.40 | 10.21 | 644.19 | - | - | 644.19 |
| | 06/08/2005 | 654.40 | 10.81 | 643.59 | - | - | 643.59 |
| | 04/24/2006 | 654.40 | 8.70 | 645.70 | - | - | 645.70 |
| | 10/03/2006 | 654.40 | 11.60 | 642.80 | - | - | 642.80 |
| | 05/22/2007 | 654.40 | 8.35 | 646.05 | - | - | 646.05 |
| 1595-RW1 | 12/05/2002 | 631.30 | 16.33 | 614.97 | - | - | 614.97 |
| | 12/13/2002 | 631.30 | 15.21 | 616.09 | - | - | 616.09 |
| | 12/17/2002 | 631.30 | 12.42 | 618.88 | - | - | 618.88 |
| | 12/23/2002 | 631.30 | 27.82 | 603.48 | - | - | 603.48 |
| | 12/27/2002 | 631.30 | 25.97 | 605.33 | - | - | 605.33 |
| | 01/09/2003 | 631.30 | 15.47 | 615.83 | - | - | 615.83 |
| | 01/22/2003 | 631.30 | 19.31 | 611.99 | - | - | 611.99 |
| | 01/28/2003 | 631.30 | 19.51 | 611.79 | - | - | 611.79 |
| | 02/07/2003 | 631.30 | 17.11 | 614.19 | - | - | 614.19 |
| | 02/12/2003 | 631.30 | 15.59 | 615.71 | 15.57 | 0.02 | 615.73 |
| | 02/18/2003 | 631.30 | 18.69 | 612.61 | 18.54 | 0.15 | 612.72 |
| | 09/07/2004 | 631.30 | 22.06 | 609.24 | - | - | 609.24 |
| | 09/14/2004 | 631.30 | 22.02 | 609.28 | - | - | 609.28 |
| | 09/21/2004 | 631.30 | 21.29 | 610.01 | - | - | 610.01 |
| | 10/04/2004 | 631.30 | 18.56 | 612.74 | - | - | 612.74 |
| | 10/19/2004 | 631.30 | 12.12 | 619.18 | - | - | 619.18 |
| | 10/29/2004 | 631.30 | 20.78 | 610.52 | - | - | 610.52 |
| | 11/08/2004 | 631.30 | 19.79 | 611.51 | - | - | 611.51 |
| | 12/01/2004 | 631.30 | 21.86 | 609.44 | - | - | 609.44 |
| | 12/16/2004 | 631.30 | 20.68 | 610.62 | - | - | 610.62 |
| | 12/23/2004 | 631.30 | 12.18 | 619.12 | - | - | 619.12 |
| | 01/04/2005 | 631.30 | 19.53 | 611.77 | - | - | 611.77 |
| | 01/13/2005 | 631.30 | 18.83 | 612.47 | - | - | 612.47 |
| | 02/01/2005 | 631.30 | 19.57 | 611.73 | - | - | 611.73 |
| | 02/23/2005 | 631.30 | 17.21 | 614.09 | - | - | 614.09 |
| | 03/03/2005 | 631.30 | 16.33 | 614.97 | - | - | 614.97 |
| | 03/15/2005 | 631.30 | 15.36 | 615.94 | - | - | 615.94 |
| | 04/08/2005 | 631.30 | 18.06 | 613.24 | - | - | 613.24 |

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

**Area 1595**
**Fort Drum**

| Monitoring Well | Date | Top of Casing (ft) | Depth to Water (ft) | GW Elevation (ft) | Depth to Product (ft) | Product Thickness (ft) | Prod Adj GW Elevation (ft) |
|---|---|---|---|---|---|---|---|
| | 04/19/2005 | 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 |
| | 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 |

**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-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 |

**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 | 630.45 | 13.19 | 617.26 | - | - | 617.26 |
| | 09/16/2004 | 630.45 | 13.00 | 617.45 | - | - | 617.45 |
| | 09/21/2004 | 630.45 | 13.15 | 617.30 | - | - | 617.30 |
| | 10/04/2004 | 630.45 | 14.25 | 616.20 | - | - | 616.20 |
| | 10/19/2004 | 630.45 | 10.35 | 620.10 | - | - | 620.10 |
| | 10/29/2004 | 630.45 | 13.13 | 617.32 | - | - | 617.32 |
| | 11/08/2004 | 630.45 | 13.34 | 617.11 | - | - | 617.11 |
| | 12/01/2004 | 630.45 | 13.39 | 617.06 | - | - | 617.06 |
| | 12/16/2004 | 630.45 | 13.28 | 617.17 | - | - | 617.17 |
| | 12/23/2004 | 630.45 | 10.17 | 620.28 | - | - | 620.28 |
| | 01/04/2005 | 630.45 | 12.09 | 618.36 | - | - | 618.36 |
| | 01/13/2005 | 630.45 | 11.71 | 618.74 | - | - | 618.74 |
| | 02/01/2005 | 630.45 | 13.93 | 616.52 | - | - | 616.52 |
| | 02/23/2005 | 630.45 | 12.38 | 618.07 | - | - | 618.07 |
| | 03/03/2005 | 630.45 | 12.73 | 617.72 | - | - | 617.72 |
| | 03/15/2005 | 630.45 | 13.18 | 617.27 | - | - | 617.27 |
| | 04/08/2005 | 630.45 | 11.33 | 619.12 | - | - | 619.12 |
| | 04/19/2005 | 630.45 | 12.18 | 618.27 | - | - | 618.27 |
| | 04/21/2005 | 630.45 | 12.32 | 618.13 | - | - | 618.13 |
| | 05/02/2005 | 630.45 | 8.90 | 621.55 | - | - | 621.55 |
| | 05/19/2005 | 630.45 | 12.15 | 618.30 | - | - | 618.30 |
| | 06/08/2005 | 630.45 | 12.75 | 617.70 | - | - | 617.70 |
| | 06/17/2005 | 630.45 | 11.72 | 618.73 | - | - | 618.73 |
| | 04/24/2006 | 630.45 | 7.83 | 622.62 | - | - | 622.62 |
| | 10/03/2006 | 630.45 | 9.46 | 620.99 | - | - | 620.99 |
| | 05/22/2007 | 630.45 | 7.86 | 622.59 | - | - | 622.59 |
| 1595-RW6 | 12/05/2002 | 620.40 | 4.87 | 615.53 | - | - | 615.53 |
| | 12/13/2002 | 620.40 | 4.80 | 615.60 | - | - | 615.60 |
| | 12/17/2002 | 620.40 | 4.58 | 615.82 | - | - | 615.82 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 02/01/2005 | 620.40 | 4.58 | 615.82 | - | - | 615.82 |
| | 02/23/2005 | 620.40 | 4.49 | 615.91 | - | - | 615.91 |
| | 03/03/2005 | 620.40 | 4.58 | 615.82 | - | - | 615.82 |
| | 03/15/2005 | 620.40 | 4.48 | 615.92 | - | - | 615.92 |
| | 04/08/2005 | 620.40 | 4.02 | 616.38 | - | - | 616.38 |
| | 04/19/2005 | 620.40 | 4.15 | 616.25 | - | - | 616.25 |
| | 04/21/2005 | 620.40 | 4.17 | 616.23 | - | - | 616.23 |
| | 05/02/2005 | 620.40 | 3.91 | 616.49 | - | - | 616.49 |
| | 05/19/2005 | 620.40 | 4.23 | 616.17 | - | - | 616.17 |
| | 06/08/2005 | 620.40 | 4.26 | 616.14 | - | - | 616.14 |
| | 06/17/2005 | 620.40 | 4.23 | 616.17 | - | - | 616.17 |
| | 04/24/2006 | 620.40 | 3.45 | 616.95 | - | - | 616.95 |
| | 10/03/2006 | 620.40 | 3.90 | 616.50 | - | - | 616.50 |
| | 05/22/2007 | 620.40 | 3.55 | 616.85 | - | - | 616.85 |
| 1595-RW7 | 12/05/2002 | 623.30 | 9.33 | 613.97 | - | - | 613.97 |
| | 12/13/2002 | 623.30 | 9.31 | 613.99 | - | - | 613.99 |
| | 12/17/2002 | 623.30 | 9.13 | 614.17 | - | - | 614.17 |
| | 12/23/2002 | 623.30 | 9.30 | 614.00 | - | - | 614.00 |
| | 12/27/2002 | 623.30 | 9.35 | 613.95 | - | - | 613.95 |
| | 01/09/2003 | 623.30 | 9.26 | 614.04 | - | - | 614.04 |
| | 01/22/2003 | 623.30 | 9.42 | 613.88 | - | - | 613.88 |
| | 01/28/2003 | 623.30 | 9.48 | 613.82 | - | - | 613.82 |
| | 02/07/2003 | 623.30 | 9.46 | 613.84 | - | - | 613.84 |
| | 02/12/2003 | 623.30 | 9.45 | 613.85 | - | - | 613.85 |
| | 02/18/2003 | 623.30 | 9.43 | 613.87 | - | - | 613.87 |
| | 09/07/2004 | 623.30 | 9.20 | 614.10 | - | - | 614.10 |
| | 09/15/2004 | 623.30 | 8.98 | 614.32 | - | - | 614.32 |
| | 09/21/2004 | 623.30 | 9.14 | 614.16 | - | - | 614.16 |
| | 10/04/2004 | 623.30 | 9.25 | 614.05 | - | - | 614.05 |
| | 10/19/2004 | 623.30 | 8.93 | 614.37 | - | - | 614.37 |
| | 10/29/2004 | 623.30 | 9.15 | 614.15 | - | - | 614.15 |
| | 11/08/2004 | 623.30 | 9.38 | 613.92 | - | - | 613.92 |
| | 12/01/2004 | 623.30 | 9.35 | 613.95 | - | - | 613.95 |
| | 12/16/2004 | 623.30 | 9.05 | 614.25 | - | - | 614.25 |
| | 12/23/2004 | 623.30 | 8.98 | 614.32 | - | - | 614.32 |
| | 01/04/2005 | 623.30 | 8.73 | 614.57 | - | - | 614.57 |
| | 01/13/2005 | 623.30 | 8.86 | 614.44 | - | - | 614.44 |
| | 02/01/2005 | 623.30 | 8.88 | 614.42 | - | - | 614.42 |
| | 02/23/2005 | 623.30 | 8.84 | 614.46 | - | - | 614.46 |
| | 03/03/2005 | 623.30 | 8.92 | 614.38 | - | - | 614.38 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 10/03/2006 | 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
November 2010 - January 2011 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 $H_2O$) | Sparge Influent Pressure (psi) | Sparge Influent Temperature (F) | Sparge Effluent Pressure (in $H_2O$) | Sparge Effluent Temperature (F) | Sparge Differential Pressure (in $H_2O$) | Oil Water Separator Flow (gallons) | Air Flow (cfm) | System Effluent (ppm) | Total Mass Recovered (lbs) | Total Recovery Rate (lbs/hr) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/01/10 | 0711 | On | NR | NR | 29408.0 | 69.0 | NR | NR | 30.39 | NR | NR | NR | 7.5 | 120 | 1.0 | 78 | 0.30 | 633491.6 | NR | NR | NR | NR | |
| 11/02/10 | 0707 | On | NR | NR | 29431.9 | 23.9 | NR | NR | 30.46 | NR | NR | NR | 7.5 | 120 | 1.0 | 76 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 11/03/10 | 0700 | On | NR | NR | 29455.8 | 23.9 | NR | NR | 30.10 | NR | NR | NR | 7.5 | 118 | 1.0 | 76 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 11/04/10 | 0707 | On | NR | NR | 29479.9 | 24.1 | NR | NR | 29.68 | NR | NR | NR | 7.5 | 134 | 1.0 | 84 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 11/05/10 | 0708 | On | NR | NR | 29503.9 | 24.0 | NR | NR | 29.56 | NR | NR | NR | 7.5 | 128 | 1.0 | 82 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 11/08/10 | 0950 | On | NR | NR | 29579.6 | 75.7 | NR | NR | 29.98 | NR | NR | NR | 7.5 | 120 | 1.0 | 78 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 11/09/10 | 1127 | On | NR | NR | 29605.2 | 25.6 | NR | NR | 30.11 | NR | NR | NR | 7.0 | 132 | 1.0 | 84 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 11/10/10 | 1047 | On | NR | NR | 29628.6 | 23.4 | NR | NR | 30.24 | NR | NR | NR | 7.5 | 126 | 1.0 | 84 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 11/11/10 | 0955 | On | NR | NR | 29651.7 | 23.1 | NR | NR | 30.47 | NR | NR | NR | 7.0 | 122 | 1.0 | 80 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 11/12/10 | 1151 | On | NR | NR | 29677.6 | 25.9 | NR | NR | 30.42 | NR | NR | NR | 7.0 | 138 | 1.0 | 92 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 11/15/10 | 0737 | On | NR | NR | 29745.5 | 67.9 | NR | NR | 30.00 | NR | NR | NR | 7.5 | 130 | 1.0 | 86 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 11/16/10 | 1253 | On | NR | NR | 29774.8 | 29.3 | NR | NR | 29.88 | NR | NR | NR | 7.0 | 142 | 1.0 | 90 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 11/17/10 | 0707 | On | NR | NR | 29793.0 | 18.2 | NR | NR | 29.43 | NR | NR | NR | 7.5 | 136 | 1.0 | 82 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 11/18/10 | 0738 | On | NR | NR | 29817.5 | 24.5 | NR | NR | 30.02 | NR | NR | NR | 8.5 | 134 | 1.0 | 86 | 0.60 | 633491.6 | NR | NR | NR | NR | |
| 11/19/10 | 0712 | On | NR | NR | 29841.0 | 23.5 | NR | NR | 30.23 | NR | NR | NR | 8.5 | 128 | 1.0 | 84 | 0.60 | 633491.6 | NR | NR | NR | NR | |
| 11/22/10 | 1409 | On | NR | NR | 29919.4 | 78.4 | NR | NR | 30.02 | NR | NR | NR | 8.0 | 150 | 1.0 | 100 | 0.60 | 633491.6 | NR | NR | NR | NR | |
| 11/23/10 | 1156 | On | NR | NR | 29941.2 | 21.8 | NR | NR | 29.79 | NR | NR | NR | 8.0 | 158 | 1.0 | 108 | 0.60 | 633491.6 | NR | NR | NR | NR | |
| 11/24/10 | 0900 | On | NR | NR | 29962.1 | 20.9 | NR | NR | 30.23 | NR | NR | NR | 6.0 | 102 | 1.0 | 70 | 0.30 | 633491.6 | NR | NR | NR | NR | |
| 11/29/10 | 1312 | On | NR | NR | 30086.4 | 124.3 | NR | NR | 30.42 | NR | NR | NR | 7.0 | 110 | 1.0 | 76 | 0.30 | 633491.6 | NR | NR | NR | NR | |
| 11/30/10 | 1018 | On | NR | NR | 30107.5 | 21.1 | NR | NR | 30.01 | NR | NR | NR | 7.0 | 126 | 1.0 | 78 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 12/01/10 | 1407 | On | NR | NR | 30135.3 | 27.8 | NR | NR | 29.68 | NR | NR | NR | 7.0 | 120 | 1.0 | 76 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 12/02/10 | 1226 | On | NR | NR | 30157.5 | 22.2 | NR | NR | 29.99 | NR | NR | NR | 7.0 | 118 | 1.0 | 78 | 0.30 | 633491.6 | NR | NR | NR | NR | |
| 12/03/10 | 1203 | On | NR | NR | 30181.0 | 23.5 | NR | NR | 30.04 | NR | NR | NR | 7.0 | 126 | 1.0 | 76 | 0.30 | 633491.6 | NR | NR | NR | NR | |
| 12/06/10 | 1244 | On | NR | NR | 30254.0 | 73.0 | NR | NR | 29.54 | NR | NR | NR | 7.0 | 114 | 1.0 | 68 | 0.30 | 633491.6 | NR | NR | NR | NR | |
| 12/07/10 | 1218 | On | NR | NR | 30277.5 | 23.5 | NR | NR | 29.55 | NR | NR | NR | 7.0 | 112 | 1.0 | 80 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 12/08/10 | 1346 | On | NR | NR | 30302.6 | 25.1 | NR | NR | 29.91 | NR | NR | NR | 7.0 | 110 | 1.0 | 82 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 12/09/10 | 1506 | On | NR | NR | 30328.3 | 25.7 | NR | NR | 30.26 | NR | NR | NR | 7.0 | 104 | 1.0 | 76 | 0.30 | 633491.6 | NR | NR | NR | NR | |
| 12/10/10 | 1213 | On | NR | NR | 30349.4 | 21.1 | NR | NR | 30.17 | NR | NR | NR | 7.0 | 110 | 1.0 | 78 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 12/13/10 | 1446 | On | NR | NR | 30424.0 | 74.6 | NR | NR | 29.35 | NR | NR | NR | 7.0 | 108 | 1.0 | 82 | 0.30 | 633491.6 | NR | NR | NR | NR | |
| 12/14/10 | 1443 | On | NR | NR | 30447.9 | 23.9 | NR | NR | 29.56 | NR | NR | NR | 7.0 | 102 | 1.0 | 76 | 0.30 | 633491.6 | NR | NR | NR | NR | |
| 12/15/10 | 1032 | On | NR | NR | 30467.8 | 19.9 | NR | NR | 29.73 | NR | NR | NR | 7.0 | 106 | 1.0 | 74 | 0.30 | 633491.6 | NR | NR | NR | NR | |
| 12/16/10 | 1423 | On | NR | NR | 30495.6 | 27.8 | NR | NR | 29.69 | NR | NR | NR | 7.0 | 120 | 1.0 | 82 | 0.30 | 633491.6 | NR | NR | NR | NR | |
| 12/17/10 | 900 | On | NR | NR | 30514.2 | 18.6 | NR | NR | 29.90 | NR | NR | NR | 7.0 | 110 | 1.0 | 80 | 0.30 | 633491.6 | NR | NR | NR | NR | |
| 12/20/10 | 1034 | On | NR | NR | 30587.8 | 73.6 | NR | NR | 30.03 | NR | NR | NR | 7.0 | 114 | 1.0 | 84 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 12/21/10 | 905 | On | NR | NR | 30610.3 | 22.5 | NR | NR | 30.07 | NR | NR | NR | 7.0 | 110 | 1.0 | 82 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 12/27/10 | 0901 | On | NR | NR | 30754.3 | 144.0 | NR | NR | 29.76 | NR | NR | NR | 7.0 | 98 | 1.0 | 72 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 12/28/10 | 1100 | On | NR | NR | 30780.2 | 25.9 | NR | NR | 29.86 | NR | NR | NR | 7.0 | 118 | 1.0 | 82 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 12/29/10 | 1150 | On | NR | NR | 30805.0 | 24.8 | NR | NR | 30.01 | NR | NR | NR | 7.0 | 122 | 1.0 | 82 | 0.30 | 633491.6 | NR | NR | NR | NR | |
| 12/30/10 | 0820 | On | NR | NR | 30825.5 | 20.5 | NR | NR | 30.11 | NR | NR | NR | 7.0 | 108 | 1.0 | 82 | 0.40 | 633491.6 | NR | NR | NR | NR | |
| 01/03/11 | 0804 | On | NR | NR | 30921.3 | 95.8 | NR | NR | 30.08 | NR | NR | NR | 7.5 | 116 | 1.0 | 82 | 0.20 | 633491.6 | NR | NR | NR | NR | |
| 01/04/11 | 0920 | On | NR | NR | 30946.5 | 25.2 | NR | NR | 29.84 | NR | NR | NR | 7.5 | 120 | 1.0 | 80 | 0.20 | 633491.6 | NR | NR | NR | NR | |
| 01/05/11 | 0908 | On | NR | NR | 30970.3 | 23.8 | NR | NR | 29.81 | NR | NR | NR | 7.0 | 112 | 1.0 | 84 | 0.30 | 633491.6 | NR | NR | NR | NR | |
| 01/06/11 | 1050 | On | NR | NR | 30996.0 | 25.7 | NR | NR | 29.66 | NR | NR | NR | 7.5 | 110 | 1.0 | 78 | 0.20 | 633491.6 | NR | NR | NR | NR | |
| 01/07/11 | 0744 | On | NR | NR | 31016.9 | 20.9 | NR | NR | 29.40 | NR | NR | NR | 7.5 | 112 | 1.0 | 74 | 0.20 | 633491.6 | NR | NR | NR | NR | |
| 01/10/11 | 1131 | On | NR | NR | 31092.7 | 75.8 | NR | NR | 30.27 | NR | NR | NR | 7.5 | 104 | 1.0 | 78 | 0.30 | 633491.6 | NR | NR | NR | NR | |
| 01/11/11 | 0734 | On | NR | NR | 31112.0 | 19.3 | NR | NR | 30.29 | NR | NR | NR | 7.5 | 102 | 1.0 | 48 | 0.20 | 633491.6 | NR | NR | NR | NR | |
| 01/12/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.87 | NR | NR | NR | NR | NR | NR | NR | NR | 633491.6 | NR | NR | NR | NR | System off for YSI sampling |
| 01/13/11 | NR | Off | NR | NR | NR | NR | NR | NR | 30.24 | NR | NR | NR | NR | NR | NR | NR | NR | 633491.6 | NR | NR | NR | NR | System off for YSI sampling |
| 01/14/11 | 1518 | On | NR | NR | 31112.6 | 0.6 | NR | NR | 30.34 | NR | NR | NR | 7.5 | 108 | 1.0 | 48 | 0.10 | 633491.6 | NR | NR | NR | NR | System reactivated |
| 01/17/11 | 0658 | On | NR | NR | 31176.2 | 63.6 | NR | NR | 30.33 | NR | NR | NR | 7.0 | 74 | 0.0 | 46 | 0.20 | 633491.6 | NR | NR | NR | NR | |
| 01/18/11 | 0700 | On | NR | NR | 31200.2 | 24.0 | NR | NR | 29.83 | NR | NR | NR | 7.0 | 98 | 0.0 | 62 | 0.20 | 633491.6 | NR | NR | NR | NR | |
| 01/19/11 | 0747 | On | NR | NR | 31225.1 | 24.9 | NR | NR | 29.88 | NR | NR | NR | 7.0 | 106 | 0.0 | 56 | 0.20 | 633491.6 | NR | NR | NR | NR | |
| 01/20/11 | 0719 | On | NR | NR | 31248.6 | 23.5 | NR | NR | 29.99 | NR | NR | NR | 7.0 | 102 | 0.0 | 54 | 0.20 | 633491.6 | NR | NR | NR | NR | |
| 01/24/11 | 1300 | On | NR | NR | 31350.1 | 101.5 | NR | NR | 30.34 | NR | NR | NR | 7.0 | 92 | 0.0 | 48 | 0.20 | 633491.6 | NR | NR | NR | NR | |
| 01/25/11 | 0735 | On | NR | NR | 31368.8 | 18.7 | NR | NR | 30.07 | NR | NR | NR | 7.5 | 98 | 0.0 | 52 | 0.20 | 633491.6 | NR | NR | NR | NR | |
| 01/26/11 | 0935 | On | NR | NR | 31394.8 | 26.0 | NR | NR | 29.91 | NR | NR | NR | 7.0 | 106 | 0.0 | 58 | 0.30 | 633491.6 | NR | NR | NR | NR | |
| 01/27/11 | 1421 | Off | NR | NR | 31416.7 | 21.9 | NR | NR | 29.82 | NR | NR | NR | 7.0 | 110 | 0.0 | 52 | 0.30 | 633491.6 | NR | NR | NR | NR | Off due to a power outage |
| 01/28/11 | 1235 | On | NR | NR | 31438.9 | 22.2 | NR | NR | 29.79 | NR | NR | NR | 7.0 | 110 | 0.0 | 56 | 0.30 | 633491.6 | NR | NR | NR | NR | |
| 01/31/11 | 1218 | On | NR | NR | 31510.7 | 71.8 | NR | NR | 30.54 | NR | NR | NR | 7.0 | 88 | 0.0 | 52 | 0.30 | 633491.6 | NR | NR | NR | NR | |

Notes:
NR = Not Recorded.
in Hg = inches of Mercury
F = degrees Farenheit
psi = Pressure per Square Inch
in $H_2O$ = inches of Water
cfm = Cubic Feet per Minute
ppm = Parts Per Million
lbs = Pounds
lbs/hr = Pounds per Hour

# 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 |
| | 01/13/2010 | 652.54 | 9.15 | 643.39 | - | - | 643.39 |
| 1795-3-5M | 07/02/2009 | 649.47 | 5.47 | 644.00 | - | - | 644.00 |
| | 07/20/2009 | 649.47 | 5.61 | 643.86 | - | - | 643.86 |
| | 08/28/2009 | 649.47 | 7.30 | 642.17 | - | - | 642.17 |
| | 09/15/2009 | 649.47 | 9.06 | 640.41 | - | - | 640.41 |
| | 09/22/2009 | 649.47 | 9.02 | 640.45 | - | - | 640.45 |
| | 10/14/2009 | 649.47 | 9.18 | 640.29 | - | - | 640.29 |
| | 11/10/2009 | 649.47 | 9.09 | 640.38 | - | - | 640.38 |
| | 12/14/2009 | 649.47 | 9.76 | 639.71 | - | - | 639.71 |
| | 01/11/2010 | 649.47 | 10.11 | 639.36 | - | - | 639.36 |
| | 02/10/2010 | 649.47 | 9.59 | 639.88 | - | - | 639.88 |
| | 03/10/2010 | 649.47 | 9.52 | 639.95 | - | - | 639.95 |
| | 04/14/2010 | 649.47 | 9.57 | 639.90 | - | - | 639.90 |
| | 05/12/2010 | 654.56 | 10.33 | 644.23 | - | - | 644.23 |
| | 06/17/2010 | 654.56 | 10.59 | 643.97 | - | - | 643.97 |
| | 07/14/2010 | 654.56 | 10.81 | 643.75 | - | - | 643.75 |
| | 08/09/2010 | 654.56 | 10.37 | 644.19 | - | - | 644.19 |
| | 09/16/2010 | 654.56 | 10.22 | 644.34 | - | - | 644.34 |
| | 10/13/2010 | 654.56 | 9.05 | 645.51 | - | - | 645.51 |
| | 11/16/2010 | 654.56 | 10.10 | 644.46 | - | - | 644.46 |
| | 12/16/2010 | 654.56 | 9.96 | 644.60 | - | - | 644.60 |
| | 01/13/2010 | 654.56 | 9.61 | 644.95 | - | - | 644.95 |
| 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 11/10/2009 | 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 |
| | 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 |
| | 01/13/2010 | 651.50 | 9.59 | 641.91 | - | - | 641.91 |
| 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 |
| | 01/13/2010 | 652.91 | 15.61 | 637.30 | - | - | 637.30 |
| 1795-4-4M | 07/02/2009 | 648.53 | 6.63 | 641.90 | - | - | 641.90 |
| | 07/20/2009 | 648.53 | 6.84 | 641.69 | - | - | 641.69 |
| | 08/28/2009 | 648.53 | 8.20 | 640.33 | - | - | 640.33 |
| | 09/22/2009 | 648.53 | 9.45 | 639.08 | - | - | 639.08 |
| | 10/14/2009 | 648.53 | 9.97 | 638.56 | - | - | 638.56 |
| | 11/10/2009 | 648.53 | 9.90 | 638.63 | - | - | 638.63 |
| | 12/14/2009 | 648.53 | 16.21 | 632.32 | - | - | 632.32 |
| | 01/11/2010 | 648.53 | 16.41 | 632.12 | - | - | 632.12 |
| | 05/12/2010 | 652.96 | 10.94 | 642.02 | - | - | 642.02 |
| | 06/17/2010 | 652.96 | 11.51 | 641.45 | - | - | 641.45 |
| | 07/14/2010 | 652.96 | 16.59 | 636.37 | - | - | 636.37 |
| | 08/09/2010 | 652.96 | 16.44 | 636.52 | - | - | 636.52 |
| | 09/16/2010 | 652.96 | 17.31 | 635.65 | - | - | 635.65 |

**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) |
|---|---|---|---|---|---|---|---|
| | 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 |
| | 01/13/2010 | 652.96 | 15.48 | 637.48 | - | - | 637.48 |
| 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 |
| | 01/13/2010 | 653.68 | 10.54 | 643.14 | - | - | 643.14 |
| 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 |
| | 01/13/2010 | 653.93 | 8.82 | 645.11 | - | - | 645.11 |
| 1795-5-5M | 07/02/2009 | 651.54 | 10.56 | 640.98 | - | - | 640.98 |
| | 07/20/2009 | 651.54 | 10.09 | 641.45 | - | - | 641.45 |
| | 08/28/2009 | 651.54 | 11.52 | 640.02 | - | - | 640.02 |

**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) |
|---|---|---|---|---|---|---|---|
| | 09/22/2009 | 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 |
| | 01/13/2010 | 654.68 | 13.87 | 640.81 | - | - | 640.81 |
| 1795-5-10M | 07/02/2009 | 646.13 | 5.48 | 640.65 | - | - | 640.65 |
| | 07/20/2009 | 646.13 | 5.14 | 640.99 | - | - | 640.99 |
| | 08/28/2009 | 646.13 | 6.40 | 639.73 | - | - | 639.73 |
| | 09/22/2009 | 646.13 | 7.95 | 638.18 | - | - | 638.18 |
| | 10/14/2009 | 646.13 | 8.14 | 637.99 | - | - | 637.99 |
| | 11/10/2009 | 646.13 | 8.18 | 637.95 | - | - | 637.95 |
| | 12/14/2009 | 646.13 | 8.76 | 637.37 | - | - | 637.37 |
| | 01/11/2010 | 646.13 | 8.83 | 637.30 | - | - | 637.30 |
| | 02/10/2010 | 646.13 | 8.49 | 637.64 | - | - | 637.64 |
| | 03/10/2010 | 646.13 | 8.49 | 637.64 | - | - | 637.64 |
| | 04/14/2010 | 646.13 | 8.13 | 638.00 | - | - | 638.00 |
| | 05/12/2010 | 656.61 | 10.06 | 646.55 | - | - | 646.55 |
| | 06/17/2010 | 656.61 | 10.46 | 646.15 | - | - | 646.15 |
| | 07/14/2010 | 656.61 | 9.30 | 647.31 | - | - | 647.31 |
| | 08/09/2010 | 656.61 | 10.44 | 646.17 | - | - | 646.17 |
| | 09/16/2010 | 656.61 | 10.25 | 646.36 | - | - | 646.36 |
| | 10/13/2010 | 656.61 | 7.14 | 649.47 | - | - | 649.47 |
| | 11/16/2010 | 656.61 | 8.82 | 647.79 | - | - | 647.79 |
| | 12/16/2010 | 656.61 | 8.26 | 648.35 | - | - | 648.35 |
| | 01/13/2010 | 656.61 | 7.78 | 648.83 | - | - | 648.83 |
| 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 | - | - | - | - |

**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-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 | - | - | - | - |
| 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 |

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

**Area 1795**
**Fort Drum**

| Monitoring Well | Date | Top of Casing (ft) | Depth to Water (ft) | GW Elevation (ft) | Depth to Product (ft) | Product Thickness (ft) | Prod Adj GW Elevation (ft) |
|---|---|---|---|---|---|---|---|
| | 04/07/2005 | 644.96 | 12.64 | 632.32 | - | - | 632.32 |
| | 04/19/2005 | 644.96 | 12.07 | 632.89 | - | - | 632.89 |
| | 05/03/2005 | 644.96 | 12.35 | 632.61 | - | - | 632.61 |
| | 06/01/2005 | 644.96 | 12.78 | 632.18 | - | - | 632.18 |
| | 07/05/2005 | 644.96 | 13.73 | 631.23 | - | - | 631.23 |
| | 08/01/2005 | 644.96 | 14.32 | 630.64 | - | - | 630.64 |
| | 09/07/2005 | 644.96 | 15.05 | 629.91 | - | - | 629.91 |
| | 10/05/2005 | 644.96 | 14.77 | 630.19 | - | - | 630.19 |
| | 11/08/2005 | 644.96 | 13.23 | 631.73 | - | - | 631.73 |
| | 12/09/2005 | 644.96 | 11.66 | 633.30 | - | - | 633.30 |
| | 01/06/2006 | 644.96 | 12.18 | 632.78 | - | - | 632.78 |
| | 02/02/2006 | 644.96 | 10.88 | 634.08 | - | - | 634.08 |
| | 03/21/2006 | 644.96 | 10.25 | 634.71 | - | - | 634.71 |
| | 04/06/2006 | 644.96 | 10.72 | 634.24 | - | - | 634.24 |
| | 04/25/2006 | 644.96 | 11.20 | 633.76 | - | - | 633.76 |
| | 05/11/2006 | 644.96 | 11.33 | 633.63 | - | - | 633.63 |
| | 06/12/2006 | 644.96 | 12.16 | 632.80 | - | - | 632.80 |
| | 07/07/2006 | 644.96 | 12.59 | 632.37 | - | - | 632.37 |
| | 10/05/2006 | 644.96 | 14.94 | 630.02 | - | - | 630.02 |
| | 05/23/2007 | 644.96 | 10.75 | 634.21 | - | - | 634.21 |
| 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 10/05/2006 | 646.59 | 13.53 | 633.06 | - | - | 633.06 |
| | 05/23/2007 | 646.59 | 9.13 | 637.46 | - | - | 637.46 |
| 1795-MWS5 | 12/02/2002 | 654.78 | 19.18 | 635.60 | - | - | 635.60 |
| | 01/06/2003 | 654.78 | 18.56 | 636.22 | - | - | 636.22 |
| | 02/07/2003 | 654.78 | 18.82 | 635.96 | - | - | 635.96 |
| | 09/02/2004 | 654.78 | 17.55 | 637.23 | - | - | 637.23 |
| | 09/15/2004 | 654.78 | 17.15 | 637.63 | - | - | 637.63 |
| | 10/04/2004 | 654.78 | 17.62 | 637.16 | - | - | 637.16 |
| | 11/01/2004 | 654.78 | 18.03 | 636.75 | - | - | 636.75 |
| | 12/03/2004 | 654.78 | 17.97 | 636.81 | - | - | 636.81 |
| | 01/04/2005 | 654.78 | 16.28 | 638.50 | - | - | 638.50 |
| | 02/03/2005 | 654.78 | 15.92 | 638.86 | - | - | 638.86 |
| | 03/01/2005 | 654.78 | 16.31 | 638.47 | - | - | 638.47 |
| | 04/07/2005 | 654.78 | 15.04 | 639.74 | - | - | 639.74 |
| | 04/19/2005 | 654.78 | 15.14 | 639.64 | - | - | 639.64 |
| | 05/03/2005 | 654.78 | 15.46 | 639.32 | - | - | 639.32 |
| | 06/01/2005 | 654.78 | 16.04 | 638.74 | - | - | 638.74 |
| | 07/05/2005 | 654.78 | 17.05 | 637.73 | - | - | 637.73 |
| | 08/01/2005 | 654.78 | 17.50 | 637.28 | - | - | 637.28 |
| | 09/07/2005 | 654.78 | 17.90 | 636.88 | - | - | 636.88 |
| | 10/05/2005 | 654.78 | 17.22 | 637.56 | - | - | 637.56 |
| | 11/08/2005 | 654.78 | 15.61 | 639.17 | - | - | 639.17 |
| | 12/09/2005 | 654.78 | 14.05 | 640.73 | - | - | 640.73 |
| | 01/06/2006 | 654.78 | 14.91 | 639.87 | - | - | 639.87 |
| | 02/02/2006 | 654.78 | 13.28 | 641.50 | - | - | 641.50 |
| | 03/21/2006 | 654.78 | 13.11 | 641.67 | - | - | 641.67 |
| | 04/06/2006 | 654.78 | 13.84 | 640.94 | - | - | 640.94 |
| | 04/25/2006 | 654.78 | 14.02 | 640.76 | - | - | 640.76 |
| | 05/11/2006 | 654.78 | 14.44 | 640.34 | - | - | 640.34 |
| | 06/12/2006 | 654.78 | 15.13 | 639.65 | - | - | 639.65 |
| | 07/07/2006 | 654.78 | 15.33 | 639.45 | - | - | 639.45 |
| | 10/05/2006 | 654.78 | 17.54 | 637.24 | - | - | 637.24 |
| | 05/23/2007 | 654.78 | 14.04 | 640.74 | - | - | 640.74 |
| 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 02/03/2005 | 651.67 | 10.34 | 641.33 | - | - | 641.33 |
| | 03/01/2005 | 651.67 | 10.58 | 641.09 | - | - | 641.09 |
| | 04/07/2005 | 651.67 | 9.46 | 642.21 | - | - | 642.21 |
| | 04/19/2005 | 651.67 | 10.70 | 640.97 | - | - | 640.97 |
| | 05/03/2005 | 651.67 | 9.87 | 641.80 | - | - | 641.80 |
| | 06/01/2005 | 651.67 | 10.51 | 641.16 | - | - | 641.16 |
| | 07/05/2005 | 651.67 | 11.30 | 640.37 | - | - | 640.37 |
| | 08/01/2005 | 651.67 | 11.52 | 640.15 | - | - | 640.15 |
| | 09/07/2005 | 651.67 | 11.59 | 640.08 | - | - | 640.08 |
| | 10/05/2005 | 651.67 | 10.93 | 640.74 | - | - | 640.74 |
| | 11/08/2005 | 651.67 | 9.73 | 641.94 | - | - | 641.94 |
| | 12/09/2005 | 651.67 | 5.83 | 645.84 | - | - | 645.84 |
| | 01/06/2006 | 651.67 | 9.03 | 642.64 | - | - | 642.64 |
| | 02/02/2006 | 651.67 | 7.64 | 644.03 | - | - | 644.03 |
| | 03/21/2006 | 651.67 | 7.86 | 643.81 | - | - | 643.81 |
| | 04/06/2006 | 651.67 | 8.42 | 643.25 | - | - | 643.25 |
| | 04/25/2006 | 651.67 | 8.42 | 643.25 | - | - | 643.25 |
| | 05/11/2006 | 651.67 | 9.00 | 642.67 | - | - | 642.67 |
| | 06/12/2006 | 651.67 | 9.51 | 642.16 | - | - | 642.16 |
| | 07/07/2006 | 651.67 | 9.68 | 641.99 | - | - | 641.99 |
| | 10/05/2006 | 651.67 | 11.35 | 640.32 | - | - | 640.32 |
| | 05/23/2007 | 651.67 | 8.61 | 643.06 | - | - | 643.06 |
| 1795-MWS7 | 12/02/2002 | 653.24 | 11.65 | 641.59 | - | - | 641.59 |
| | 01/06/2003 | 653.24 | 10.98 | 642.26 | - | - | 642.26 |
| | 02/07/2003 | 653.24 | 11.56 | 641.68 | - | - | 641.68 |
| | 09/02/2004 | 653.24 | 9.99 | 643.25 | - | - | 643.25 |
| | 09/15/2004 | 653.24 | 9.43 | 643.81 | - | - | 643.81 |
| | 10/04/2004 | 653.24 | 10.38 | 642.86 | - | - | 642.86 |
| | 11/01/2004 | 653.24 | 10.89 | 642.35 | - | - | 642.35 |
| | 12/03/2004 | 653.24 | 9.93 | 643.31 | - | - | 643.31 |
| | 01/04/2005 | 653.24 | 8.73 | 644.51 | - | - | 644.51 |
| | 02/03/2005 | 653.24 | 9.28 | 643.96 | - | - | 643.96 |
| | 03/01/2005 | 653.24 | 9.05 | 644.19 | - | - | 644.19 |
| | 04/07/2005 | 653.24 | 8.45 | 644.79 | - | - | 644.79 |
| | 04/19/2005 | 653.24 | 8.81 | 644.43 | - | - | 644.43 |
| | 05/03/2005 | 653.24 | 8.77 | 644.47 | - | - | 644.47 |
| | 06/01/2005 | 653.24 | 9.50 | 643.74 | - | - | 643.74 |
| | 07/05/2005 | 653.24 | 10.27 | 642.97 | - | - | 642.97 |
| | 08/01/2005 | 653.24 | 10.32 | 642.92 | - | - | 642.92 |
| | 09/07/2005 | 653.24 | 10.14 | 643.10 | - | - | 643.10 |
| | 10/05/2005 | 653.24 | 9.50 | 643.74 | - | - | 643.74 |
| | 11/08/2005 | 653.24 | 8.57 | 644.67 | - | - | 644.67 |
| | 12/09/2005 | 653.24 | 7.58 | 645.66 | - | - | 645.66 |
| | 01/06/2006 | 653.24 | 7.84 | 645.40 | - | - | 645.40 |
| | 02/02/2006 | 653.24 | 6.63 | 646.61 | - | - | 646.61 |
| | 03/21/2006 | 653.24 | 6.99 | 646.25 | - | - | 646.25 |
| | 04/06/2006 | 653.24 | 7.35 | 645.89 | - | - | 645.89 |
| | 04/25/2006 | 653.24 | 7.31 | 645.93 | - | - | 645.93 |
| | 05/11/2006 | 653.24 | 8.01 | 645.23 | - | - | 645.23 |

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

**Area 1795**
**Fort Drum**

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

**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) |
|---|---|---|---|---|---|---|---|
| | 01/06/2003 | 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 |
| | 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 | - | - | - | - |

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

**Area 1795**
**Fort Drum**

| Monitoring Well | Date | Top of Casing (ft) | Depth to Water (ft) | GW Elevation (ft) | Depth to Product (ft) | Product Thickness (ft) | Prod Adj GW Elevation (ft) |
|---|---|---|---|---|---|---|---|
| | 05/23/2007 | NR | 15.32 | - | - | - | - |
| 1795-MWS17 | 09/15/2004 | NR | 25.04 | - | - | - | - |
| | 04/19/2005 | NR | 23.05 | - | - | - | - |
| | 04/25/2006 | NR | 22.30 | - | - | - | - |
| | 10/05/2006 | NR | 25.28 | - | - | - | - |
| | 05/23/2007 | NR | 21.57 | - | - | - | - |
| 1795-MWS18 | 09/15/2004 | NR | 18.01 | - | - | - | - |
| | 04/19/2005 | NR | 16.23 | - | - | - | - |
| | 04/25/2006 | NR | 16.11 | - | - | - | - |
| | 10/05/2006 | NR | 18.19 | - | - | - | - |
| | 05/23/2007 | NR | 15.56 | - | - | - | - |
| 1795-MWS19 | 09/15/2004 | NR | 13.75 | - | - | - | - |
| | 04/19/2005 | NR | 11.83 | - | - | - | - |
| | 04/25/2006 | NR | 10.72 | - | - | - | - |
| | 10/05/2006 | NR | 14.62 | - | - | - | - |
| | 05/23/2007 | NR | 10.55 | - | - | - | - |
| 1795-MWD20 | 09/15/2004 | NR | 20.90 | - | - | - | - |
| | 04/19/2005 | NR | 19.90 | - | - | - | - |
| | 04/25/2006 | NR | 17.78 | - | - | - | - |
| | 10/05/2006 | NR | 21.30 | - | - | - | - |
| | 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 |

**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 | 649.60 | 8.97 | 640.63 | - | - | 640.63 |
| | 12/03/2004 | 649.60 | 8.38 | 641.22 | - | - | 641.22 |
| | 01/04/2005 | 649.60 | 7.11 | 642.49 | - | - | 642.49 |
| | 02/03/2005 | 649.60 | 7.39 | 642.21 | - | - | 642.21 |
| | 03/01/2005 | 649.60 | 7.60 | 642.00 | - | - | 642.00 |
| | 04/07/2005 | 649.60 | 6.55 | 643.05 | - | - | 643.05 |
| | 04/19/2005 | 649.60 | 6.81 | 642.79 | - | - | 642.79 |
| | 05/03/2005 | 649.60 | 6.86 | 642.74 | - | - | 642.74 |
| | 06/01/2005 | 649.60 | 7.55 | 642.05 | - | - | 642.05 |
| | 07/05/2005 | 649.60 | 8.27 | 641.33 | - | - | 641.33 |
| | 08/01/2005 | 649.60 | 8.41 | 641.19 | - | - | 641.19 |
| | 09/07/2005 | 649.60 | 8.37 | 641.23 | - | - | 641.23 |
| | 10/05/2005 | 649.60 | 7.76 | 641.84 | - | - | 641.84 |
| | 11/08/2005 | 649.60 | 6.62 | 642.98 | - | - | 642.98 |
| | 12/09/2005 | 649.60 | 5.62 | 643.98 | - | - | 643.98 |
| | 01/06/2006 | 649.60 | 5.83 | 643.77 | - | - | 643.77 |
| | 02/02/2006 | 649.60 | 4.69 | 644.91 | - | - | 644.91 |
| | 03/21/2006 | 649.60 | 5.00 | 644.60 | - | - | 644.60 |
| | 04/06/2006 | 649.60 | 5.44 | 644.16 | - | - | 644.16 |
| | 04/25/2006 | 649.60 | 5.40 | 644.20 | - | - | 644.20 |
| | 05/11/2006 | 649.60 | 6.08 | 643.52 | - | - | 643.52 |
| | 06/12/2006 | 649.60 | 6.48 | 643.12 | - | - | 643.12 |
| | 07/07/2006 | 649.60 | 6.68 | 642.92 | - | - | 642.92 |
| | 10/05/2006 | 649.60 | 7.98 | 641.62 | - | - | 641.62 |
| | 05/23/2007 | 649.60 | 5.68 | 643.92 | - | - | 643.92 |
| 1795-PZ02 | 12/02/2002 | 648.88 | 10.77 | 638.11 | - | - | 638.11 |
| | 01/06/2003 | 648.88 | 10.20 | 638.68 | - | - | 638.68 |
| | 02/07/2003 | 648.88 | 10.61 | 638.27 | - | - | 638.27 |
| | 09/02/2004 | 648.88 | 9.35 | 639.53 | - | - | 639.53 |
| | 09/15/2004 | 648.88 | 9.88 | 639.00 | - | - | 639.00 |
| | 10/04/2004 | 648.88 | 9.68 | 639.20 | - | - | 639.20 |
| | 11/01/2004 | 648.88 | 10.13 | 638.75 | - | - | 638.75 |
| | 12/03/2004 | 648.88 | 9.70 | 639.18 | - | - | 639.18 |
| | 01/04/2005 | 648.88 | 8.50 | 640.38 | - | - | 640.38 |
| | 02/03/2005 | 648.88 | 8.57 | 640.31 | - | - | 640.31 |
| | 03/01/2005 | 648.88 | 8.81 | 640.07 | - | - | 640.07 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 04/06/2006 | 648.88 | 6.72 | 642.16 | - | - | 642.16 |
| | 04/25/2006 | 648.88 | 6.70 | 642.18 | - | - | 642.18 |
| | 05/11/2006 | 648.88 | 7.30 | 641.58 | - | - | 641.58 |
| | 06/12/2006 | 648.88 | 7.69 | 641.19 | - | - | 641.19 |
| | 07/07/2006 | 648.88 | 7.86 | 641.02 | - | - | 641.02 |
| | 10/05/2006 | 648.88 | 9.29 | 639.59 | - | - | 639.59 |
| | 05/23/2007 | 648.88 | 6.90 | 641.98 | - | - | 641.98 |
| 1795-PZ03 | 12/02/2002 | 653.33 | 17.68 | 635.65 | - | - | 635.65 |
| | 01/06/2003 | 653.33 | 16.86 | 636.47 | - | - | 636.47 |
| | 02/07/2003 | 653.33 | 17.17 | 636.16 | - | - | 636.16 |
| | 09/02/2004 | 653.33 | 15.92 | 637.41 | - | - | 637.41 |
| | 09/15/2004 | 653.33 | 15.49 | 637.84 | - | - | 637.84 |
| | 10/04/2004 | 653.33 | 16.03 | 637.30 | - | - | 637.30 |
| | 11/01/2004 | 653.33 | 16.44 | 636.89 | - | - | 636.89 |
| | 12/03/2004 | 653.33 | 16.30 | 637.03 | - | - | 637.03 |
| | 01/04/2005 | 653.33 | 14.72 | 638.61 | - | - | 638.61 |
| | 02/03/2005 | 653.33 | 14.45 | 638.88 | - | - | 638.88 |
| | 03/01/2005 | 653.33 | 14.81 | 638.52 | - | - | 638.52 |
| | 04/07/2005 | 653.33 | 13.56 | 639.77 | - | - | 639.77 |
| | 04/19/2005 | 653.33 | 13.71 | 639.62 | - | - | 639.62 |
| | 05/03/2005 | 653.33 | 14.01 | 639.32 | - | - | 639.32 |
| | 06/01/2005 | 653.33 | 14.58 | 638.75 | - | - | 638.75 |
| | 07/05/2005 | 653.33 | 15.52 | 637.81 | - | - | 637.81 |
| | 08/01/2005 | 653.33 | 15.89 | 637.44 | - | - | 637.44 |
| | 09/07/2005 | 653.33 | 16.21 | 637.12 | - | - | 637.12 |
| | 10/05/2005 | 653.33 | 15.55 | 637.78 | - | - | 637.78 |
| | 11/08/2005 | 653.33 | 14.03 | 639.30 | - | - | 639.30 |
| | 12/09/2005 | 653.33 | 12.58 | 640.75 | - | - | 640.75 |
| | 01/06/2006 | 653.33 | 13.38 | 639.95 | - | - | 639.95 |
| | 02/02/2006 | 653.33 | 11.81 | 641.52 | - | - | 641.52 |
| | 03/21/2006 | 653.33 | 11.74 | 641.59 | - | - | 641.59 |
| | 04/06/2006 | 653.33 | 12.46 | 640.87 | - | - | 640.87 |
| | 04/25/2006 | 653.33 | 12.59 | 640.74 | - | - | 640.74 |
| | 05/11/2006 | 653.33 | 13.03 | 640.30 | - | - | 640.30 |
| | 06/12/2006 | 653.33 | 13.66 | 639.67 | - | - | 639.67 |
| | 07/07/2006 | 653.33 | 13.82 | 639.51 | - | - | 639.51 |
| | 10/05/2006 | 653.33 | 15.87 | 637.46 | - | - | 637.46 |
| | 05/23/2007 | 653.33 | 12.64 | 640.69 | - | - | 640.69 |
| 1795-PZ04 | 12/02/2002 | 647.23 | 13.02 | 634.21 | - | - | 634.21 |
| | 01/06/2003 | 647.23 | 12.48 | 634.75 | - | - | 634.75 |
| | 02/07/2003 | 647.23 | 12.68 | 634.55 | - | - | 634.55 |
| | 09/02/2004 | 647.23 | 11.52 | 635.71 | - | - | 635.71 |
| | 09/15/2004 | 647.23 | 11.12 | 636.11 | - | - | 636.11 |
| | 10/04/2004 | 647.23 | 11.60 | 635.63 | - | - | 635.63 |
| | 11/01/2004 | 647.23 | 11.95 | 635.28 | - | - | 635.28 |
| | 12/03/2004 | 647.23 | 11.82 | 635.41 | - | - | 635.41 |
| | 01/04/2005 | 647.23 | 10.38 | 636.85 | - | - | 636.85 |
| | 02/03/2005 | 647.23 | 9.89 | 637.34 | - | - | 637.34 |

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

**Area 1795**
**Fort Drum**

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

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

**Area 1795**
**Fort Drum**

| Monitoring Well | Date | Top of Casing (ft) | Depth to Water (ft) | GW Elevation (ft) | Depth to Product (ft) | Product Thickness (ft) | Prod Adj GW Elevation (ft) |
|---|---|---|---|---|---|---|---|
| | 07/07/2006 | 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 |
| | 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 |

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

**Area 1795**
**Fort Drum**

| Monitoring Well | Date | Top of Casing (ft) | Depth to Water (ft) | GW Elevation (ft) | Depth to Product (ft) | Product Thickness (ft) | Prod Adj GW Elevation (ft) |
|---|---|---|---|---|---|---|---|
| | 06/01/2005 | 650.10 | 7.17 | 642.93 | - | - | 642.93 |
| | 07/05/2005 | 650.10 | 8.01 | 642.09 | - | - | 642.09 |
| | 08/01/2005 | 650.10 | 8.18 | 641.92 | - | - | 641.92 |
| | 09/07/2005 | 650.10 | 8.01 | 642.09 | - | - | 642.09 |
| | 10/05/2005 | 650.10 | 7.34 | 642.76 | - | - | 642.76 |
| | 11/08/2005 | 650.10 | 6.32 | 643.78 | - | - | 643.78 |
| | 12/09/2005 | 650.10 | 5.21 | 644.89 | - | - | 644.89 |
| | 01/06/2006 | 650.10 | 5.57 | 644.53 | - | - | 644.53 |
| | 02/02/2006 | 650.10 | 4.29 | 645.81 | - | - | 645.81 |
| | 03/21/2006 | 650.10 | 4.63 | 645.47 | - | - | 645.47 |
| | 04/06/2006 | 650.10 | 4.98 | 645.12 | - | - | 645.12 |
| | 04/25/2006 | 650.10 | 4.96 | 645.14 | - | - | 645.14 |
| | 05/11/2006 | 650.10 | 5.65 | 644.45 | - | - | 644.45 |
| | 06/12/2006 | 650.10 | 6.02 | 644.08 | - | - | 644.08 |
| | 07/07/2006 | 650.10 | 6.29 | 643.81 | - | - | 643.81 |
| | 10/05/2006 | 650.10 | 7.76 | 642.34 | - | - | 642.34 |
| | 05/23/2007 | 650.10 | 5.74 | 644.36 | - | - | 644.36 |
| 1795-PZ08 | 12/02/2002 | 648.51 | 11.65 | 636.86 | - | - | 636.86 |
| | 01/06/2003 | 648.51 | 11.08 | 637.43 | - | - | 637.43 |
| | 02/07/2003 | 648.51 | 11.38 | 637.13 | - | - | 637.13 |
| | 09/02/2004 | 648.51 | 9.98 | 638.53 | - | - | 638.53 |
| | 09/15/2004 | 648.51 | 9.52 | 638.99 | - | - | 638.99 |
| | 10/04/2004 | 648.51 | 10.08 | 638.43 | - | - | 638.43 |
| | 11/01/2004 | 648.51 | 10.50 | 638.01 | - | - | 638.01 |
| | 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 | - | - |

**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) |
|---|---|---|---|---|---|---|---|
| | 10/23/2008 | 648.51 | 8.45 | 640.06 | - | - | 640.06 |
| | 12/30/2008 | 648.51 | 4.58 | 643.93 | - | - | 643.93 |
| | 01/28/2009 | 648.51 | 6.12 | 642.39 | - | - | 642.39 |
| | 02/24/2009 | 648.51 | 6.05 | 642.46 | - | - | 642.46 |
| | 03/27/2009 | 648.51 | 5.61 | 642.90 | - | - | 642.90 |
| | 04/28/2009 | 648.51 | 5.64 | 642.87 | - | - | 642.87 |
| | 05/20/2009 | 648.51 | 5.58 | 642.93 | - | - | 642.93 |
| | 06/25/2009 | 648.51 | 6.28 | 642.23 | - | - | 642.23 |
| | 07/20/2009 | 648.51 | 7.08 | 641.43 | - | - | 641.43 |
| | 08/25/2009 | 648.51 | 8.27 | 640.24 | - | - | 640.24 |
| | 09/15/2009 | 648.51 | 9.45 | 639.06 | - | - | 639.06 |
| | 09/22/2009 | 648.51 | 9.85 | 638.66 | - | - | 638.66 |
| | 10/14/2009 | 648.51 | 10.28 | 638.23 | - | - | 638.23 |
| | 11/10/2009 | 648.51 | 10.31 | 638.20 | - | - | 638.20 |
| | 12/14/2009 | 648.51 | 10.98 | 637.53 | - | - | 637.53 |
| | 01/11/2010 | 648.51 | 11.13 | 637.38 | - | - | 637.38 |
| | 02/10/2010 | 648.51 | 10.69 | 637.82 | - | - | 637.82 |
| | 03/10/2010 | 648.51 | 10.58 | 637.93 | - | - | 637.93 |
| | 04/14/2010 | 648.51 | 10.42 | 638.09 | - | - | 638.09 |
| | 05/12/2010 | 648.51 | 11.36 | 637.15 | - | - | 637.15 |
| | 06/17/2010 | 648.51 | 11.94 | 636.57 | - | - | 636.57 |
| | 07/14/2010 | 648.51 | 11.78 | 636.73 | - | - | 636.73 |
| | 08/09/2010 | 648.51 | 12.02 | 636.49 | - | - | 636.49 |
| | 09/16/2010 | 648.51 | 11.50 | 637.01 | - | - | 637.01 |
| | 10/13/2010 | 648.51 | 10.18 | 638.33 | - | - | 638.33 |
| | 11/16/2010 | 648.51 | 11.03 | 637.48 | - | - | 637.48 |
| | 12/16/2010 | 648.51 | 10.07 | 638.44 | - | - | 638.44 |
| | 01/13/2010 | 648.51 | 10.03 | 638.48 | - | - | 638.48 |
| 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 |
| | 12/09/2005 | 652.82 | 12.22 | 640.60 | - | - | 640.60 |

**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 | 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 |
| | 01/13/2010 | 652.82 | 16.41 | 636.41 | - | - | 636.41 |
| 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 |

**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 | 648.25 | 7.08 | 641.17 | - | - | 641.17 |
| | 04/07/2005 | 648.25 | 6.02 | 642.23 | - | - | 642.23 |
| | 04/19/2005 | 648.25 | 6.25 | 642.00 | - | - | 642.00 |
| | 05/03/2005 | 648.25 | 6.35 | 641.90 | - | - | 641.90 |
| | 06/01/2005 | 648.25 | 7.01 | 641.24 | - | - | 641.24 |
| | 07/05/2005 | 648.25 | 8.03 | 640.22 | - | - | 640.22 |
| | 08/01/2005 | 648.25 | 8.37 | 639.88 | - | - | 639.88 |
| | 09/07/2005 | 648.25 | 8.43 | 639.82 | - | - | 639.82 |
| | 10/05/2005 | 648.25 | 7.70 | 640.55 | - | - | 640.55 |
| | 11/08/2005 | 648.25 | 6.39 | 641.86 | - | - | 641.86 |
| | 12/09/2005 | 648.25 | 5.05 | 643.20 | - | - | 643.20 |
| | 01/06/2006 | 648.25 | 5.65 | 642.60 | - | - | 642.60 |
| | 02/02/2006 | 648.25 | 4.09 | 644.16 | - | - | 644.16 |
| | 03/21/2006 | 648.25 | 4.27 | 643.98 | - | - | 643.98 |
| | 04/06/2006 | 648.25 | 4.77 | 643.48 | - | - | 643.48 |
| | 04/25/2006 | 648.25 | 4.78 | 643.47 | - | - | 643.47 |
| | 05/11/2006 | 648.25 | 5.44 | 642.81 | - | - | 642.81 |
| | 06/12/2006 | 648.25 | 5.96 | 642.29 | - | - | 642.29 |
| | 07/07/2006 | 648.25 | 6.23 | 642.02 | - | - | 642.02 |
| | 10/05/2006 | 648.25 | 8.12 | 640.13 | - | - | 640.13 |
| | 05/23/2007 | 648.25 | 5.17 | 643.08 | - | - | 643.08 |
| 1795-PZ11 | 12/02/2002 | 650.85 | NR | - | NR | - | - |
| | 01/06/2003 | 650.85 | NR | - | NR | - | - |
| | 02/07/2003 | 650.85 | NR | - | NR | - | - |
| 1795-PZ12 | 12/02/2002 | 648.64 | NR | - | NR | - | - |
| | 01/06/2003 | 648.64 | NR | - | NR | - | - |
| | 02/07/2003 | 648.64 | NR | - | NR | - | - |
| | 09/02/2004 | 648.64 | 4.33 | 644.31 | - | - | 644.31 |
| | 09/15/2004 | 648.64 | 4.92 | 643.72 | - | - | 643.72 |
| | 10/04/2004 | 648.64 | 4.46 | 644.18 | - | - | 644.18 |
| | 11/01/2004 | 648.64 | 5.27 | 643.37 | - | - | 643.37 |
| | 12/03/2004 | 648.64 | 4.35 | 644.29 | - | - | 644.29 |
| | 01/04/2005 | 648.64 | 3.46 | 645.18 | - | - | 645.18 |
| | 02/03/2005 | 648.64 | NR | - | NR | - | - |
| | 03/01/2005 | 648.64 | NR | - | NR | - | - |
| | 04/07/2005 | 648.64 | 3.02 | 645.62 | - | - | 645.62 |
| | 04/19/2005 | 648.64 | 4.36 | 644.28 | - | - | 644.28 |
| | 05/03/2005 | 648.64 | 3.34 | 645.30 | - | - | 645.30 |
| | 06/01/2005 | 648.64 | 4.02 | 644.62 | - | - | 644.62 |
| | 07/05/2005 | 648.64 | 5.67 | 642.97 | - | - | 642.97 |
| | 08/01/2005 | 648.64 | 4.67 | 643.97 | - | - | 643.97 |
| | 09/07/2005 | 648.64 | 4.57 | 644.07 | - | - | 644.07 |
| | 10/05/2005 | 648.64 | 3.95 | 644.69 | - | - | 644.69 |
| | 11/08/2005 | 648.64 | 3.05 | 645.59 | - | - | 645.59 |
| | 12/09/2005 | 648.64 | 2.22 | 646.42 | - | - | 646.42 |
| | 01/06/2006 | 648.64 | NR | - | NR | - | - |
| | 02/02/2006 | 648.64 | 1.04 | 647.60 | - | - | 647.60 |
| | 03/21/2006 | 648.64 | 1.56 | 647.08 | - | - | 647.08 |

**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) |
|---|---|---|---|---|---|---|---|
| | 04/06/2006 | 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 |
| | 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 |

**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 | 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 |
| | 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 |

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

**Area 1795**
**Fort Drum**

| Monitoring Well | Date | Top of Casing (ft) | Depth to Water (ft) | GW Elevation (ft) | Depth to Product (ft) | Product Thickness (ft) | Prod Adj GW Elevation (ft) |
|---|---|---|---|---|---|---|---|
| | 07/07/2006 | 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 |
| | 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 |

**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 | 648.42 | 9.16 | 639.26 | - | - | 639.26 |
| | 02/02/2006 | 648.42 | 7.49 | 640.93 | - | - | 640.93 |
| | 03/21/2006 | 648.42 | 7.28 | 641.14 | - | - | 641.14 |
| | 04/06/2006 | 648.42 | 7.97 | 640.45 | - | - | 640.45 |
| | 05/11/2006 | 648.42 | 8.62 | 639.80 | - | - | 639.80 |
| | 06/12/2006 | 648.42 | 9.27 | 639.15 | - | - | 639.15 |
| | 07/07/2006 | 648.42 | 9.51 | 638.91 | - | - | 638.91 |
| | 09/19/2008 | 648.42 | 9.78 | 638.64 | - | - | 638.64 |
| | 10/23/2008 | 648.42 | 10.21 | 638.21 | - | - | 638.21 |
| | 12/30/2008 | 648.42 | 6.46 | 641.96 | - | - | 641.96 |
| | 01/28/2009 | 648.42 | 7.87 | 640.55 | - | - | 640.55 |
| | 02/24/2009 | 648.42 | 7.92 | 640.50 | - | - | 640.50 |
| | 03/27/2009 | 648.42 | 7.45 | 640.97 | - | - | 640.97 |
| | 04/28/2009 | 648.42 | 7.38 | 641.04 | - | - | 641.04 |
| | 05/20/2009 | 648.42 | 7.39 | 641.03 | - | - | 641.03 |
| | 06/25/2009 | 648.42 | 7.97 | 640.45 | - | - | 640.45 |
| | 07/20/2009 | 648.42 | 8.77 | 639.65 | - | - | 639.65 |
| | 08/25/2009 | 648.42 | 9.98 | 638.44 | - | - | 638.44 |
| | 09/15/2009 | 648.42 | 11.00 | 637.42 | - | - | 637.42 |
| | 09/22/2009 | 648.42 | 11.40 | 637.02 | - | - | 637.02 |
| | 10/14/2009 | 648.42 | 11.81 | 636.61 | - | - | 636.61 |
| | 11/10/2009 | 648.42 | 11.88 | 636.54 | - | - | 636.54 |
| | 12/14/2009 | 648.42 | 12.54 | 635.88 | - | - | 635.88 |
| | 01/11/2010 | 648.42 | 12.72 | 635.70 | - | - | 635.70 |
| | 02/10/2010 | 648.42 | 12.38 | 636.04 | - | - | 636.04 |
| | 03/10/2010 | 648.42 | 12.26 | 636.16 | - | - | 636.16 |
| | 04/14/2010 | 648.42 | 12.03 | 636.39 | - | - | 636.39 |
| | 05/12/2010 | 648.42 | 12.92 | 635.50 | - | - | 635.50 |
| | 06/17/2010 | 648.42 | 13.71 | 634.71 | 13.42 | 0.29 | 635.00 |
| | 07/14/2010 | 648.42 | 14.79 | 633.63 | 13.42 | 1.37 | 635.00 |
| | 08/09/2010 | 648.42 | 14.28 | 634.14 | 13.62 | 0.66 | 634.80 |
| | 09/16/2010 | 648.42 | 14.44 | 633.98 | 13.62 | 0.82 | 634.80 |
| | 10/13/2010 | 648.42 | 12.13 | 636.29 | - | - | 636.29 |
| | 11/16/2010 | 648.42 | 12.64 | 635.78 | - | - | 635.78 |
| | 12/16/2010 | 648.42 | 11.86 | 636.56 | - | - | 636.56 |
| | 01/13/2010 | 648.42 | 12.09 | 636.33 | - | - | 636.33 |
| 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 07/05/2005 | 651.40 | 14.30 | 637.10 | - | - | 637.10 |
| | 08/01/2005 | 651.40 | 14.81 | 636.59 | - | - | 636.59 |
| | 09/07/2005 | 651.40 | 15.33 | 636.07 | - | - | 636.07 |
| | 10/05/2005 | 651.40 | 14.65 | 636.75 | - | - | 636.75 |
| | 11/08/2005 | 651.40 | 12.91 | 638.49 | - | - | 638.49 |
| | 12/09/2005 | 651.40 | 11.31 | 640.09 | - | - | 640.09 |
| | 01/06/2006 | 651.40 | 12.13 | 639.27 | - | - | 639.27 |
| | 02/02/2006 | 651.40 | 10.48 | 640.92 | - | - | 640.92 |
| | 03/21/2006 | 651.40 | 10.21 | 641.19 | - | - | 641.19 |
| | 04/06/2006 | 651.40 | 10.91 | 640.49 | - | - | 640.49 |
| | 05/11/2006 | 651.40 | 11.56 | 639.84 | - | - | 639.84 |
| | 06/12/2006 | 651.40 | 12.29 | 639.11 | - | - | 639.11 |
| | 07/07/2006 | 651.40 | 12.56 | 638.84 | - | - | 638.84 |
| 1795-RW1 | 12/02/2002 | 653.99 | 17.74 | 636.25 | - | - | 636.25 |
| | 01/06/2003 | 653.99 | 12.16 | 641.83 | 12.15 | 0.01 | 641.84 |
| | 02/07/2003 | 653.99 | 17.40 | 636.59 | 17.39 | 0.01 | 636.60 |
| | 09/02/2004 | 653.99 | 16.15 | 637.84 | - | - | 637.84 |
| | 09/15/2004 | 653.99 | 15.74 | 638.25 | - | - | 638.25 |
| | 10/04/2004 | 653.99 | 16.23 | 637.76 | - | - | 637.76 |
| | 11/01/2004 | 653.99 | 16.64 | 637.35 | - | - | 637.35 |
| | 12/03/2004 | 653.99 | 16.57 | 637.42 | - | - | 637.42 |
| | 01/04/2005 | 653.99 | 14.88 | 639.11 | - | - | 639.11 |
| | 02/03/2005 | 653.99 | 14.54 | 639.45 | - | - | 639.45 |
| | 03/01/2005 | 653.99 | 14.94 | 639.05 | - | - | 639.05 |
| | 04/07/2005 | 653.99 | 13.69 | 640.30 | - | - | 640.30 |
| | 04/19/2005 | 653.99 | 13.77 | 640.22 | - | - | 640.22 |
| | 05/03/2005 | 653.99 | 14.10 | 639.89 | - | - | 639.89 |
| | 06/01/2005 | 653.99 | 14.67 | 639.32 | - | - | 639.32 |
| | 07/05/2005 | 653.99 | 15.67 | 638.32 | - | - | 638.32 |
| | 08/01/2005 | 653.99 | 16.09 | 637.90 | - | - | 637.90 |
| | 09/07/2005 | 653.99 | 16.48 | 637.51 | - | - | 637.51 |
| | 10/05/2005 | 653.99 | 15.81 | 638.18 | - | - | 638.18 |
| | 11/08/2005 | 653.99 | 14.22 | 639.77 | - | - | 639.77 |
| | 12/09/2005 | 653.99 | 12.67 | 641.32 | - | - | 641.32 |
| | 01/06/2006 | 653.99 | 13.54 | 640.45 | - | - | 640.45 |
| | 02/02/2006 | 653.99 | 11.92 | 642.07 | - | - | 642.07 |
| | 03/21/2006 | 653.99 | 11.75 | 642.24 | - | - | 642.24 |
| | 04/06/2006 | 653.99 | 12.50 | 641.49 | - | - | 641.49 |
| | 04/25/2006 | 653.99 | 12.68 | 641.31 | - | - | 641.31 |
| | 05/11/2006 | 653.99 | 13.09 | 640.90 | - | - | 640.90 |
| | 06/12/2006 | 653.99 | 13.77 | 640.22 | - | - | 640.22 |
| | 07/07/2006 | 653.99 | 13.96 | 640.03 | - | - | 640.03 |
| | 10/05/2006 | 653.99 | 16.13 | 637.86 | - | - | 637.86 |
| | 05/23/2007 | 653.99 | 12.69 | 641.30 | - | - | 641.30 |
| | 09/19/2008 | 653.99 | 13.98 | 640.01 | - | - | 640.01 |
| | 10/23/2008 | 653.99 | 14.42 | 639.57 | - | - | 639.57 |
| | 12/30/2008 | 653.99 | 10.68 | 643.31 | - | - | 643.31 |
| | 01/28/2009 | 653.99 | 12.25 | 641.74 | - | - | 641.74 |
| | 02/24/2009 | 653.99 | 12.26 | 641.73 | - | - | 641.73 |

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

**Area 1795**
**Fort Drum**

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

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

**Area 1795**
**Fort Drum**

| Monitoring Well | Date | Top of Casing (ft) | Depth to Water (ft) | GW Elevation (ft) | Depth to Product (ft) | Product Thickness (ft) | Prod Adj GW Elevation (ft) |
|---|---|---|---|---|---|---|---|
| | 04/25/2006 | 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 |
| | 01/13/2010 | 647.68 | 11.07 | 636.61 | - | - | 636.61 |
| 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 |

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

**Area 1795**
**Fort Drum**

| Monitoring Well | Date | Top of Casing (ft) | Depth to Water (ft) | GW Elevation (ft) | Depth to Product (ft) | Product Thickness (ft) | Prod Adj GW Elevation (ft) |
|---|---|---|---|---|---|---|---|
| | 06/01/2005 | 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 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 01/06/2003 | 652.44 | 12.68 | 639.76 | - | - | 639.76 |
| | 02/07/2003 | 652.44 | 13.17 | 639.27 | - | - | 639.27 |
| | 09/02/2004 | 652.44 | 11.72 | 640.72 | - | - | 640.72 |
| | 10/04/2004 | 652.44 | 11.96 | 640.48 | - | - | 640.48 |
| | 11/01/2004 | 652.44 | 12.43 | 640.01 | - | - | 640.01 |
| | 12/03/2004 | 652.44 | 11.92 | 640.52 | - | - | 640.52 |
| | 01/04/2005 | 652.44 | 10.28 | 642.16 | - | - | 642.16 |
| | 02/03/2005 | 652.44 | 10.56 | 641.88 | - | - | 641.88 |
| | 03/01/2005 | 652.44 | 10.83 | 641.61 | - | - | 641.61 |
| | 04/07/2005 | 652.44 | 9.75 | 642.69 | - | - | 642.69 |
| | 05/03/2005 | 652.44 | 10.10 | 642.34 | - | - | 642.34 |
| | 06/01/2005 | 652.44 | 10.78 | 641.66 | - | - | 641.66 |
| | 07/05/2005 | 652.44 | 11.66 | 640.78 | - | - | 640.78 |
| | 08/01/2005 | 652.44 | 11.89 | 640.55 | - | - | 640.55 |
| | 09/07/2005 | 652.44 | 11.90 | 640.54 | - | - | 640.54 |
| | 10/05/2005 | 652.44 | 11.23 | 641.21 | - | - | 641.21 |
| | 11/08/2005 | 652.44 | 10.02 | 642.42 | - | - | 642.42 |
| | 12/09/2005 | 652.44 | 8.80 | 643.64 | - | - | 643.64 |
| | 01/06/2006 | 652.44 | 9.27 | 643.17 | - | - | 643.17 |
| | 02/02/2006 | 652.44 | 7.83 | 644.61 | - | - | 644.61 |
| | | Well damaged during tree removal activities conducted in March 2006. | | | | | |
| WWII003 | 09/15/2004 | NR | 13.17 | - | - | - | - |
| | 04/19/2005 | NR | 11.46 | - | - | - | - |
| | 04/25/2006 | NR | 11.05 | - | - | - | - |
| | 10/05/2006 | NR | 13.53 | - | - | - | - |
| | 05/23/2007 | NR | 10.61 | - | - | - | - |
| WWII004 | 09/15/2004 | NR | 19.09 | - | - | - | - |
| | 04/19/2005 | NR | 17.10 | - | - | - | - |
| | 04/25/2006 | NR | 15.95 | - | - | - | - |
| | 10/05/2006 | NR | 19.53 | - | - | - | - |
| | 05/23/2007 | NR | 16.28 | - | - | - | - |
| WWII005 | 09/15/2004 | NR | 29.90 | - | - | - | - |
| | 04/19/2005 | NR | 21.35 | - | - | - | - |
| | 04/25/2006 | NR | 19.46 | - | - | - | - |
| | 10/05/2006 | NR | 22.31 | - | - | - | - |
| | 05/23/2007 | NR | 18.87 | - | - | - | - |
| WWII006 | 09/15/2004 | NR | 24.53 | - | - | - | - |
| | 04/19/2005 | NR | 23.85 | - | - | - | - |
| | 04/25/2006 | NR | 21.94 | - | - | - | - |
| | 10/05/2006 | NR | 24.86 | - | - | - | - |
| | 05/23/2007 | NR | 21.31 | - | - | - | - |

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

Table C-2
Site 1795A
November 2010 - January 2011 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 $H_2O$) | Sparge Influent Pressure (psi) | Sparge Influent Temperature (F) | Sparge Effluent Pressure (psi) | Sparge Effluent Temperature (F) | Sparge Differential Pressure (in $H_2O$) | Oil Water Separator Flow (gallons) | Air Flow (cfm) | SVE Effluent (ppm) | Total Mass Recovered (lbs) | Total Recovery Rate (lbs/hr) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/01/10 | 0818 | On | 17829.0 | 69.2 | 18814.8 | 70.0 | 7.0 | 104 | 30.39 | 1.5 | 76 | 2.0 | 7.0 | 102 | 6.5 | 76 | 0.25 | 303012.4 | 453.3 | 119.8 | 22.546 | 0.326 | |
| 11/02/10 | 0753 | On | 17852.6 | 23.6 | 18837.6 | 22.8 | 6.5 | 106 | 30.46 | 1.0 | 70 | 2.0 | 7.5 | 110 | 7.0 | 68 | 0.25 | 303012.4 | 453.0 | 107.2 | 6.876 | 0.291 | |
| 11/03/10 | 0728 | On | 17876.2 | 23.6 | 18861.2 | 23.6 | 5.0 | 98 | 30.10 | 1.0 | 62 | 2.0 | 7.5 | 104 | 7.0 | 60 | 0.25 | 303012.4 | 453.5 | 102.6 | 6.589 | 0.279 | |
| 11/04/10 | 0737 | On | 17900.4 | 24.2 | 18885.3 | 24.1 | 6.0 | 104 | 29.68 | 0.0 | 72 | 2.0 | 7.0 | 120 | 6.5 | 70 | 0.25 | 303012.4 | 447.9 | 115.5 | 7.512 | 0.310 | |
| 11/05/10 | 0659 | On | 17922.2 | 21.8 | 18907.2 | 21.9 | 5.5 | 106 | 29.56 | 0.0 | 80 | 2.0 | 6.5 | 120 | 6.0 | 80 | 0.25 | 303012.4 | 446.2 | 117.8 | 6.876 | 0.315 | |
| 11/08/10 | 1049 | On | 17999.1 | 76.9 | 18984.1 | 76.9 | 7.0 | 118 | 29.98 | 0.0 | 78 | 2.0 | 6.0 | 112 | 6.0 | 78 | 0.25 | 303012.4 | 444.7 | 112.8 | 23.145 | 0.301 | |
| 11/09/10 | 1241 | On | 18025.0 | 25.9 | 19010.0 | 25.9 | 7.0 | 120 | 30.11 | 0.0 | 82 | 2.0 | 6.5 | 120 | 6.0 | 84 | 0.25 | 303012.4 | 444.9 | 116.2 | 8.034 | 0.310 | |
| 11/10/10 | 1015 | On | 18046.5 | 21.5 | 19031.5 | 21.5 | 7.5 | 118 | 30.24 | 0.0 | 78 | 1.8 | 7.0 | 110 | 6.5 | 76 | 0.25 | 303012.4 | 423.7 | 186.6 | 10.199 | 0.474 | |
| 11/11/10 | 0910 | On | 18069.4 | 22.9 | 19054.4 | 22.9 | 7.5 | 118 | 30.47 | 0.0 | 80 | 2.0 | 6.6 | 112 | 6.0 | 76 | 0.25 | 303012.4 | 448.3 | 179.2 | 11.039 | 0.482 | |
| 11/12/10 | 1142 | On | 18096.0 | 26.6 | 19080.9 | 26.5 | 7.0 | 122 | 30.42 | 0.0 | 90 | 2.0 | 6.0 | 132 | 5.5 | 88 | 0.25 | 303012.4 | 446.4 | 174.2 | 12.412 | 0.467 | |
| 11/15/10 | 0903 | On | 18165.3 | 69.3 | 19150.3 | 69.4 | 7.0 | 120 | 30.00 | 0.0 | 82 | 2.0 | 6.5 | 120 | 6.0 | 80 | 0.25 | 303012.4 | 444.1 | 172.7 | 31.890 | 0.460 | |
| 11/16/10 | 1231 | On | 18192.7 | 27.4 | 19177.7 | 27.4 | 7.0 | 122 | 29.88 | 0.0 | 90 | 2.0 | 5.5 | 128 | 5.0 | 90 | 0.25 | 303012.4 | 442.4 | 182.4 | 13.267 | 0.484 | |
| 11/17/10 | 0753 | On | 18212.2 | 19.5 | 19197.1 | 19.4 | 7.5 | 120 | 29.43 | 0.0 | 82 | 2.0 | 6.0 | 128 | 5.0 | 82 | 0.25 | 303012.4 | 439.9 | 186.4 | 9.593 | 0.492 | |
| 11/18/10 | 0842 | On | 18236.2 | 24.0 | 19221.1 | 24.0 | 7.5 | 112 | 30.02 | 0.0 | 74 | 2.0 | 7.0 | 112 | 6.5 | 70 | 0.25 | 303012.4 | 447.3 | 171.6 | 11.054 | 0.461 | |
| 11/19/10 | 0755 | On | 18259.4 | 23.2 | 19244.4 | 23.3 | 5.0 | 92 | 30.23 | 1.0 | 64 | 2.2 | 7.5 | 102 | 7.0 | 60 | 0.25 | 303012.4 | 479.3 | 126.6 | 8.446 | 0.364 | |
| 11/22/10 | 1450 | On | 18338.3 | 78.9 | 19323.2 | 78.8 | 7.0 | 112 | 30.02 | 0.0 | 80 | 2.0 | 6.0 | 122 | 6.0 | 78 | 0.25 | 303012.4 | 447.3 | 264.4 | 55.992 | 0.710 | |
| 11/23/10 | 1152 | On | 18359.4 | 21.1 | 19344.3 | 21.1 | 7.0 | 120 | 29.79 | 0.0 | 90 | 2.0 | 6.0 | 138 | 6.0 | 80 | 0.25 | 303012.4 | 442.5 | 240.9 | 13.496 | 0.640 | |
| 11/24/10 | 0851 | On | 18380.3 | 20.9 | 19365.3 | 21.0 | 7.0 | 110 | 30.23 | 0.0 | 78 | 2.0 | 7.0 | 108 | 7.0 | 66 | 0.25 | 303012.4 | 449.7 | 238.6 | 13.455 | 0.644 | |
| 11/29/10 | 1203 | On | 18503.5 | 123.2 | 19488.4 | 123.1 | 7.0 | 108 | 30.42 | 0.0 | 68 | 2.0 | 7.0 | 112 | 6.5 | 62 | 0.25 | 303012.4 | 451.9 | 162.4 | 54.248 | 0.440 | |
| 11/30/10 | 0907 | On | 18524.6 | 21.1 | 19509.5 | 21.1 | 7.0 | 108 | 30.01 | 0.0 | 76 | 2.0 | 7.0 | 112 | 6.5 | 72 | 0.25 | 303012.4 | 448.8 | 150.3 | 8.540 | 0.405 | |
| 12/01/10 | 1359 | On | 18553.4 | 28.8 | 19538.3 | 28.8 | 7.0 | 108 | 29.68 | 0.0 | 76 | 2.0 | 6.5 | 110 | 6.0 | 78 | 0.25 | 303012.4 | 446.4 | 140.5 | 10.837 | 0.376 | |
| 12/02/10 | 1211 | On | 18575.5 | 22.1 | 19560.5 | 22.2 | 6.5 | 100 | 29.99 | 0.0 | 74 | 2.0 | 7.0 | 110 | 6.5 | 76 | 0.25 | 303012.4 | 451.9 | 147.3 | 8.826 | 0.399 | |
| 12/03/10 | 1135 | On | 18599.1 | 23.6 | 19584.0 | 23.5 | 6.5 | 104 | 30.04 | 0.0 | 78 | 2.0 | 6.0 | 112 | 6.0 | 80 | 0.25 | 303012.4 | 450.6 | 143.9 | 9.183 | 0.389 | |
| 12/06/10 | 1429 | On | 18674.0 | 74.9 | 19658.9 | 74.9 | 7.0 | 92 | 29.54 | 0.0 | 66 | 2.0 | 7.0 | 102 | 6.5 | 68 | 0.25 | 303012.4 | 451.7 | 138.9 | 28.197 | 0.376 | |
| 12/07/10 | 1415 | On | 18697.7 | 23.7 | 19682.6 | 23.7 | 7.0 | 102 | 29.55 | 0.0 | 70 | 2.0 | 7.0 | 104 | 6.5 | 68 | 0.25 | 303012.4 | 447.8 | 141.6 | 9.016 | 0.380 | |
| 12/08/10 | 1320 | On | 18720.8 | 23.1 | 19705.8 | 23.2 | 6.0 | 88 | 29.91 | 0.0 | 64 | 2.0 | 6.0 | 98 | 6.5 | 68 | 0.25 | 303012.4 | 456.2 | 143.6 | 9.080 | 0.393 | |
| 12/09/10 | 1457 | On | 18746.5 | 25.7 | 19730.4 | 24.6 | 6.0 | 86 | 30.26 | 0.0 | 60 | 2.0 | 7.0 | 90 | 7.0 | 62 | 0.25 | 303012.4 | 459.7 | 146.1 | 10.356 | 0.403 | |
| 12/10/10 | 1205 | On | 18767.6 | 21.1 | 19752.5 | 22.1 | 6.0 | 86 | 30.17 | 0.0 | 60 | 2.0 | 7.0 | 100 | 7.0 | 64 | 0.25 | 303012.4 | 459.0 | 140.7 | 8.176 | 0.387 | |
| 12/13/10 | 1343 | On | 18841.2 | 73.6 | 19826.2 | 73.7 | 6.0 | 94 | 29.35 | 0.0 | 82 | 2.0 | 7.0 | 100 | 6.5 | 86 | 0.25 | 303012.4 | 449.4 | 128.6 | 25.524 | 0.347 | |
| 12/14/10 | 1511 | On | 18866.7 | 25.5 | 19851.6 | 25.4 | 6.0 | 82 | 29.56 | 0.0 | 60 | 2.0 | 7.0 | 94 | 7.0 | 62 | 0.25 | 303012.4 | 456.0 | 131.6 | 9.182 | 0.360 | |
| 12/15/10 | 1426 | On | 18889.9 | 23.2 | 19874.8 | 23.2 | 6.0 | 86 | 29.73 | 0.0 | 58 | 2.0 | 7.0 | 98 | 7.0 | 62 | 0.25 | 303012.4 | 455.6 | 111.6 | 7.078 | 0.305 | |
| 12/16/10 | 1302 | On | 18912.5 | 22.6 | 19897.5 | 22.7 | 6.5 | 100 | 29.69 | 0.0 | 70 | 2.0 | 7.0 | 104 | 6.5 | 68 | 0.25 | 303012.4 | 449.6 | 120.8 | 7.365 | 0.326 | |
| 12/17/10 | 1041 | On | 18933.1 | 20.6 | 19919.1 | 21.6 | 7.0 | 94 | 29.90 | 0.0 | 78 | 1.8 | 7.0 | 98 | 7.0 | 78 | 0.25 | 303012.4 | 430.4 | 164.3 | 8.739 | 0.424 | |
| 12/20/10 | 1312 | On | 19007.6 | 74.5 | 19993.6 | 74.5 | 7.0 | 108 | 30.03 | 0.0 | 78 | 2.0 | 7.0 | 106 | 7.0 | 72 | 0.25 | 303012.4 | 449.0 | 80.9 | 16.236 | 0.218 | |
| 12/21/10 | 1001 | On | 19028.4 | 20.8 | 20014.5 | 20.9 | 7.0 | 108 | 30.07 | 0.0 | 70 | 2.0 | 7.0 | 100 | 6.5 | 70 | 0.25 | 303012.4 | 449.3 | 69.3 | 3.886 | 0.187 | |
| 12/27/10 | 1150 | On | 19174.3 | 145.9 | 20160.3 | 145.8 | 7.0 | 108 | 29.76 | 0.0 | 68 | 1.8 | 7.0 | 98 | 6.5 | 66 | 0.25 | 303012.4 | 424.0 | 81.6 | 30.289 | 0.208 | |
| 12/28/10 | 1031 | On | 19196.9 | 22.6 | 20182.9 | 22.6 | 7.0 | 108 | 29.86 | 0.0 | 70 | 1.8 | 7.0 | 104 | 6.5 | 68 | 0.25 | 303012.4 | 424.7 | 102.3 | 5.892 | 0.261 | |
| 12/29/10 | 1116 | On | 19221.7 | 24.8 | 20207.7 | 24.8 | 7.0 | 110 | 30.01 | 0.0 | 78 | 1.8 | 7.0 | 110 | 6.5 | 78 | 0.25 | 303012.4 | 425.1 | 101.3 | 6.407 | 0.258 | |
| 12/30/10 | 0800 | On | 19242.4 | 20.7 | 20228.4 | 20.7 | 7.0 | 102 | 30.11 | 0.0 | 68 | 0.2 | 7.0 | 98 | 7.0 | 64 | 0.25 | 303012.4 | 135.6 | 98.1 | 1.652 | 0.080 | |
| 01/03/11 | 0800 | On | 19338.4 | 96.0 | 20324.4 | 96.0 | 7.5 | 106 | 30.08 | 0.0 | 68 | 1.8 | 7.5 | 100 | 7.0 | 66 | 0.25 | 303012.4 | 427.1 | 66.3 | 16.309 | 0.170 | |
| 01/04/11 | 0918 | On | 19363.7 | 25.3 | 20349.7 | 25.3 | 7.5 | 108 | 29.84 | 0.0 | 72 | 2.0 | 7.0 | 106 | 6.0 | 72 | 0.25 | 303012.4 | 447.6 | 104.7 | 7.113 | 0.281 | |
| 01/05/11 | 0856 | On | 19387.3 | 23.6 | 20373.3 | 23.6 | 7.0 | 108 | 29.81 | 0.0 | 70 | 1.8 | 7.0 | 100 | 6.5 | 70 | 0.25 | 303012.4 | 424.4 | 101.7 | 6.111 | 0.259 | |
| 01/06/11 | 1041 | On | 19392.2 | 4.9 | 20393.8 | 20.5 | 6.0 | 92 | 29.66 | 0.0 | 60 | 1.4 | 7.5 | 104 | 7.0 | 64 | 0.25 | 303012.4 | 378.7 | 176.3 | 1.963 | 0.401 | |
| 01/07/11 | 0734 | On | 19413.1 | 20.9 | 20414.7 | 20.9 | 6.0 | 93 | 29.40 | 0.0 | 72 | 1.4 | 7.0 | 102 | 6.0 | 70 | 0.25 | 303012.4 | 376.7 | 96.7 | 4.568 | 0.219 | |
| 01/10/11 | 1123 | On | 19488.8 | 75.7 | 20490.5 | 75.8 | 6.0 | 92 | 30.27 | 0.0 | 66 | 1.6 | 7.0 | 98 | 7.0 | 68 | 0.25 | 303012.4 | 409.0 | 74.6 | 13.858 | 0.183 | |
| 01/11/11 | 0722 | On | 19508.8 | 20.0 | 20510.5 | 20.0 | 6.0 | 92 | 30.29 | 0.0 | 66 | 1.6 | 7.5 | 96 | 7.0 | 66 | 0.25 | 303012.4 | 409.1 | 102.7 | 5.042 | 0.252 | |
| 01/12/11 | 1242 | On | 19538.2 | 29.4 | 20539.8 | 29.3 | 6.0 | 94 | 29.87 | 0.0 | 70 | 1.6 | 7.5 | 98 | 6.0 | 70 | 0.25 | 303012.4 | 405.5 | 53.8 | 3.849 | 0.131 | |
| 01/13/11 | 0739 | On | 19557.1 | 18.9 | 2058.8 | -18481.0 | 6.0 | 96 | 30.24 | 0.0 | 70 | 1.6 | 7.5 | 94 | 7.0 | 70 | 0.25 | 303012.4 | 407.3 | 48.6 | 2.245 | 0.119 | |
| 01/14/11 | 1514 | On | 19588.7 | 31.6 | 20590.4 | 18531.6 | 6.0 | 96 | 30.34 | 0.0 | 70 | 1.6 | 7.5 | 98 | 7.0 | 68 | 0.25 | 303012.4 | 408.0 | 44.9 | 3.473 | 0.110 | |
| 01/17/11 | 0651 | On | 19652.3 | 63.6 | 20654.0 | 63.6 | 6.0 | 90 | 30.33 | 0.0 | 52 | 1.6 | 8.0 | 70 | 7.0 | 50 | 0.30 | 303012.4 | 410.1 | 57.6 | 9.015 | 0.142 | |
| 01/18/11 | 0842 | On | 19678.2 | 25.9 | 20679.8 | 25.8 | 6.0 | 98 | 29.83 | 0.0 | 78 | 1.6 | 7.0 | 108 | 6.5 | 78 | 0.30 | 303012.4 | 403.8 | 53.5 | 3.357 | 0.130 | |
| 01/19/11 | 0732 | On | 19701.0 | 22.8 | 20702.7 | 22.9 | 6.0 | 96 | 29.88 | 0.0 | 74 | 1.6 | 7.0 | 102 | 6.0 | 72 | 0.25 | 303012.4 | 404.9 | 57.6 | 3.190 | 0.140 | |
| 01/20/11 | 0915 | On | 19726.7 | 25.7 | 20728.4 | 25.7 | 6.0 | 92 | 29.99 | 0.0 | 70 | 1.6 | 7.0 | 98 | 6.5 | 74 | 0.25 | 303012.4 | 407.1 | 58.6 | 3.679 | 0.143 | |
| 01/24/11 | 1248 | On | 19826.3 | 99.6 | 20827.9 | 99.5 | 6.0 | 98 | 30.34 | 0.0 | 72 | 1.6 | 7.0 | 86 | 6.5 | 64 | 0.30 | 303012.4 | 407.3 | 78.6 | 19.129 | 0.192 | |
| 01/25/11 | 0857 | On | 19846.4 | 20.1 | 20848.1 | 20.2 | 5.5 | 96 | 30.07 | 0.0 | 76 | 1.8 | 7.5 | 98 | 6.5 | 72 | 0.30 | 303012.4 | 430.8 | 56.8 | 2.951 | 0.147 | |
| 01/26/11 | 0924 | On | 19870.9 | 24.5 | 20872.5 | 24.4 | 6.0 | 96 | 29.91 | 0.0 | 78 | 1.6 | 7.0 | 108 | 6.5 | 78 | 0.25 | 303012.4 | 405.1 | 55.6 | 3.311 | 0.135 | |
| 01/27/11 | 1434 | On | 19900.0 | 29.1 | 20901.7 | 29.2 | 6.0 | 94 | 29.82 | 0.0 | 82 | 1.8 | 7.0 | 110 | 6.0 | 84 | 0.25 | 303012.4 | 429.8 | 56.3 | 4.225 | 0.145 | |
| 01/28/11 | 1222 | On | 19921.8 | 21.8 | 20923.5 | 21.8 | 6.0 | 94 | 29.79 | 0.0 | 82 | 1.8 | 7.0 | 110 | 6.0 | 82 | 0.25 | 303012.4 | 429.6 | 54.6 | 3.068 | 0.141 | |
| 01/31/11 | 1325 | On | 19994.9 | 73.1 | 20996.5 | 73.0 | 6.0 | 92 | 30.54 | 0.0 | 78 | 1.6 | 7.5 | 90 | 6.5 | 74 | 0.25 | 303012.4 | 410.8 | 51.7 | 9.315 | 0.127 | |

Notes:
NR = Not Recorded.
in Hg = inches of Mercury
F = degrees Farenheit
psi = Pressure per Square Inch
in $H_2O$ = inches of Water
cfm = Cubic Feet per Minute
ppm = Parts Per Million
lbs = Pounds
lbs/hr = Pounds per Hour

Table C-3
Site 1795B
November 2010 - January 2011 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 $H_2O$) | Sparge Influent Pressure (psi) | Sparge Influent Temperature (F) | Sparge Effluent Pressure (psi) | Sparge Effluent Temperature (F) | Sparge Differential Pressure (in $H_2O$) | Oil Water Separator Flow (gallons) | Air Flow (cfm) | SVE Effluent (ppm) | Total Mass Recovered (lbs) | Total Recovery Rate (lbs/hr) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/01/10 | 0811 | On | NR | NR | 17423.1 | 69.2 | NR | NR | 30.39 | NR | NR | NR | 5.5 | 108.0 | 6.5 | 70.0 | 0.3 | NR | NR | NR | NR | NR | |
| 11/02/10 | 0748 | On | NR | NR | 17446.7 | 23.6 | NR | NR | 30.46 | NR | NR | NR | 6.0 | 100.0 | 7.0 | 60.0 | 0.3 | NR | NR | NR | NR | NR | |
| 11/03/10 | 0722 | On | NR | NR | 17470.8 | 24.1 | NR | NR | 30.10 | NR | NR | NR | 5.5 | 104.0 | 6.5 | 62.0 | 0.3 | NR | NR | NR | NR | NR | |
| 11/04/10 | 0730 | On | NR | NR | 17494.5 | 23.7 | NR | NR | 29.68 | NR | NR | NR | 4.5 | 118.0 | 5.5 | 80.0 | 0.3 | NR | NR | NR | NR | NR | |
| 11/05/10 | 0652 | On | NR | NR | 17516.4 | 21.9 | NR | NR | 29.56 | NR | NR | NR | 5.0 | 112.0 | 6.0 | 72.0 | 0.3 | NR | NR | NR | NR | NR | |
| 11/08/10 | 1042 | On | NR | NR | 17589.3 | 72.9 | NR | NR | 29.98 | NR | NR | NR | 5.0 | 108.0 | 6.0 | 68.0 | 0.3 | NR | NR | NR | NR | NR | |
| 11/09/10 | 1233 | On | NR | NR | 17615.1 | 25.8 | NR | NR | 30.11 | NR | NR | NR | 5.0 | 116.0 | 6.0 | 78.0 | 0.4 | NR | NR | NR | NR | NR | |
| 11/10/10 | 1008 | On | NR | NR | 17636.7 | 21.6 | NR | NR | 30.24 | NR | NR | NR | 5.5 | 108.0 | 6.0 | 68.0 | 0.5 | NR | NR | NR | NR | NR | |
| 11/11/10 | 904 | On | NR | NR | 17659.5 | 22.8 | NR | NR | 30.47 | NR | NR | NR | 6.0 | 110.0 | 6.5 | 70.0 | 0.5 | NR | NR | NR | NR | NR | |
| 11/12/10 | 1135 | On | NR | NR | 17686.1 | 26.6 | NR | NR | 30.42 | NR | NR | NR | 4.0 | 134.0 | 5.5 | 86.0 | 0.5 | NR | NR | NR | NR | NR | |
| 11/15/10 | 0856 | On | NR | NR | 17755.5 | 69.4 | NR | NR | 30.00 | NR | NR | NR | 6.0 | 118.0 | 5.0 | 78.0 | 0.4 | NR | NR | NR | NR | NR | |
| 11/16/10 | 1226 | On | NR | NR | 17782.9 | 27.4 | NR | NR | 29.88 | NR | NR | NR | 4.5 | 132.0 | 5.5 | 84.0 | 0.5 | NR | NR | NR | NR | NR | |
| 11/17/10 | 0746 | On | NR | NR | 17802.3 | 19.4 | NR | NR | 29.43 | NR | NR | NR | 4.0 | 128.0 | 5.0 | 82.0 | 0.4 | NR | NR | NR | NR | NR | |
| 11/18/10 | 0835 | On | NR | NR | 17826.3 | 24.0 | NR | NR | 30.02 | NR | NR | NR | 5.0 | 112.0 | 6.0 | 70.0 | 0.4 | NR | NR | NR | NR | NR | |
| 11/19/10 | 0748 | On | NR | NR | 17849.6 | 23.3 | NR | NR | 30.23 | NR | NR | NR | 6.0 | 104.0 | 6.5 | 60.0 | 0.4 | NR | NR | NR | NR | NR | |
| 11/22/10 | 1441 | On | NR | NR | 17928.4 | 78.8 | NR | NR | 30.02 | NR | NR | NR | 5.0 | 124.0 | 6.0 | 84.0 | 0.5 | NR | NR | NR | NR | NR | |
| 11/23/10 | 1146 | On | NR | NR | 17949.5 | 21.1 | NR | NR | 29.79 | NR | NR | NR | 4.0 | 138.0 | 5.0 | 90.0 | 0.5 | NR | NR | NR | NR | NR | |
| 11/24/10 | 0844 | On | NR | NR | 17970.4 | 20.9 | NR | NR | 30.23 | NR | NR | NR | 6.0 | 106.0 | 6.5 | 64.0 | 0.5 | NR | NR | NR | NR | NR | |
| 11/29/10 | 1153 | On | NR | NR | 18093.7 | 123.3 | NR | NR | 30.42 | NR | NR | NR | 5.0 | 110.0 | 6.0 | 72.0 | 0.5 | NR | NR | NR | NR | NR | |
| 11/30/10 | 0859 | On | NR | NR | 18114.7 | 21.0 | NR | NR | 30.01 | NR | NR | NR | 5.0 | 118.0 | 6.0 | 68.0 | 0.5 | NR | NR | NR | NR | NR | |
| 12/01/10 | 1347 | On | NR | NR | 18143.5 | 28.8 | NR | NR | 29.68 | NR | NR | NR | 5.0 | 110.0 | 6.0 | 74.0 | 0.5 | NR | NR | NR | NR | NR | |
| 12/02/10 | 1200 | On | NR | NR | 18165.7 | 22.2 | NR | NR | 29.99 | NR | NR | NR | 5.5 | 106.0 | 6.0 | 70.0 | 0.5 | NR | NR | NR | NR | NR | |
| 12/03/10 | 1124 | On | NR | NR | 18189.2 | 23.5 | NR | NR | 30.04 | NR | NR | NR | 5.0 | 108.0 | 6.0 | 72.0 | 0.5 | NR | NR | NR | NR | NR | |
| 12/06/10 | 1422 | On | NR | NR | 18264.7 | 75.5 | NR | NR | 29.54 | NR | NR | NR | 5.5 | 102.0 | 6.0 | 66.0 | 0.5 | NR | NR | NR | NR | NR | |
| 12/07/10 | 1406 | On | NR | NR | 18287.8 | 23.1 | NR | NR | 29.55 | NR | NR | NR | 5.5 | 100.0 | 6.0 | 66.0 | 0.5 | NR | NR | NR | NR | NR | |
| 12/08/10 | 1310 | On | NR | NR | 18311.0 | 23.2 | NR | NR | 29.91 | NR | NR | NR | 5.5 | 98.0 | 6.5 | 70.0 | 0.5 | NR | NR | NR | NR | NR | |
| 12/09/10 | 1450 | On | NR | NR | 18336.6 | 25.6 | NR | NR | 30.26 | NR | NR | NR | 6.0 | 96.0 | 6.5 | 64.0 | 0.5 | NR | NR | NR | NR | NR | |
| 12/10/10 | 1158 | On | NR | NR | 18357.7 | 21.1 | NR | NR | 30.17 | NR | NR | NR | 5.5 | 98.0 | 6.0 | 66.0 | 0.5 | NR | NR | NR | NR | NR | |
| 12/13/10 | 1336 | On | NR | NR | 18431.4 | 73.7 | NR | NR | 29.35 | NR | NR | NR | 5.5 | 100.0 | 6.0 | 70.0 | 0.5 | NR | NR | NR | NR | NR | |
| 12/14/10 | 1505 | On | NR | NR | 18456.8 | 25.4 | NR | NR | 29.56 | NR | NR | NR | 6.0 | 94.0 | 6.0 | 66.0 | 0.5 | NR | NR | NR | NR | NR | |
| 12/15/10 | 1420 | On | NR | NR | 18480.1 | 23.3 | NR | NR | 29.73 | NR | NR | NR | 5.5 | 98.0 | 6.0 | 70.0 | 0.5 | NR | NR | NR | NR | NR | |
| 12/16/10 | 1254 | On | NR | NR | 18502.7 | 22.6 | NR | NR | 29.69 | NR | NR | NR | 5.5 | 102.0 | 6.0 | 70.0 | 0.5 | NR | NR | NR | NR | NR | |
| 12/17/10 | 1034 | On | NR | NR | 18524.3 | 21.6 | NR | NR | 29.90 | NR | NR | NR | 6.0 | 102.0 | 6.0 | 70.0 | 0.5 | NR | NR | NR | NR | NR | |
| 12/20/10 | 1304 | On | NR | NR | 18598.8 | 74.5 | NR | NR | 30.03 | NR | NR | NR | 6.0 | 104.0 | 6.0 | 70.0 | 0.5 | NR | NR | NR | NR | NR | |
| 12/21/10 | 0955 | On | NR | NR | 18619.7 | 20.9 | NR | NR | 30.07 | NR | NR | NR | 6.0 | 102.0 | 6.0 | 70.0 | 0.5 | NR | NR | NR | NR | NR | |
| 12/27/10 | 1141 | On | NR | NR | 18765.4 | 145.7 | NR | NR | 29.76 | NR | NR | NR | 5.5 | 98.0 | 6.0 | 64.0 | 0.5 | NR | NR | NR | NR | NR | |
| 12/28/10 | 1025 | On | NR | NR | 18788.2 | 22.8 | NR | NR | 29.86 | NR | NR | NR | 5.5 | 104.0 | 6.0 | 72.0 | 0.5 | NR | NR | NR | NR | NR | |
| 12/29/10 | 1110 | On | NR | NR | 18812.8 | 24.6 | NR | NR | 30.01 | NR | NR | NR | 5.5 | 108.0 | 6.0 | 70.0 | 0.5 | NR | NR | NR | NR | NR | |
| 12/30/10 | 0753 | On | NR | NR | 18833.6 | 20.8 | NR | NR | 30.11 | NR | NR | NR | 5.5 | 100.0 | 6.0 | 70.0 | 0.5 | NR | NR | NR | NR | NR | |
| 01/03/11 | 0754 | On | NR | NR | 18929.7 | 96.1 | NR | NR | 30.08 | NR | NR | NR | 5.5 | 100.0 | 6.0 | 70.0 | 0.5 | NR | NR | NR | NR | NR | |
| 01/04/11 | 0911 | On | NR | NR | 18954.9 | 25.2 | NR | NR | 29.84 | NR | NR | NR | 5.0 | 106.0 | 6.0 | 70.0 | 0.4 | NR | NR | NR | NR | NR | |
| 01/05/11 | 0847 | On | NR | NR | 18978.5 | 23.6 | NR | NR | 29.81 | NR | NR | NR | 5.0 | 100.0 | 6.0 | 72.0 | 0.5 | NR | NR | NR | NR | NR | |
| 01/06/11 | 1037 | On | NR | NR | 18999.4 | 20.9 | NR | NR | 29.66 | NR | NR | NR | 5.0 | 90.0 | 7.0 | 64.0 | 0.5 | NR | NR | NR | NR | NR | |
| 01/07/11 | 0728 | On | NR | NR | 19020.3 | 20.9 | NR | NR | 29.40 | NR | NR | NR | 5.0 | 94.0 | 6.0 | 70.0 | 0.5 | NR | NR | NR | NR | NR | |
| 01/10/11 | 1115 | On | NR | NR | 19096.7 | 76.4 | NR | NR | 30.27 | NR | NR | NR | 5.0 | 90.0 | 6.5 | 70.0 | 0.2 | NR | NR | NR | NR | NR | |
| 01/11/11 | 0715 | On | NR | NR | 19116.1 | 19.4 | NR | NR | 30.29 | NR | NR | NR | 5.0 | 88.0 | 7.0 | 70.0 | 0.1 | NR | NR | NR | NR | NR | |
| 01/12/11 | 1236 | On | NR | NR | 19145.4 | 29.3 | NR | NR | 29.87 | NR | NR | NR | 4.0 | 90.0 | 6.0 | 70.0 | 0.1 | NR | NR | NR | NR | NR | |
| 01/13/11 | 0737 | On | NR | NR | 19164.3 | 18.9 | NR | NR | 30.24 | NR | NR | NR | 5.0 | 88.0 | 6.0 | 70.0 | 0.1 | NR | NR | NR | NR | NR | |
| 01/14/11 | 1509 | On | NR | NR | 19195.5 | 31.2 | NR | NR | 30.34 | NR | NR | NR | 5.0 | 90.0 | 6.0 | 70.0 | 0.1 | NR | NR | NR | NR | NR | |
| 01/17/11 | 0645 | On | NR | NR | 19259.6 | 64.1 | NR | NR | 30.33 | NR | NR | NR | 5.0 | 68.0 | 7.0 | 62.0 | 0.1 | NR | NR | NR | NR | NR | |
| 01/18/11 | 0832 | On | NR | NR | 19285.4 | 25.8 | NR | NR | 29.83 | NR | NR | NR | 5.0 | 98.0 | 6.0 | 70.0 | 0.2 | NR | NR | NR | NR | NR | |
| 01/19/11 | 0725 | On | NR | NR | 19308.2 | 22.8 | NR | NR | 29.88 | NR | NR | NR | 5.0 | 94.0 | 6.0 | 70.0 | 0.1 | NR | NR | NR | NR | NR | |
| 01/20/11 | 0908 | On | NR | NR | 19333.9 | 25.7 | NR | NR | 29.99 | NR | NR | NR | 5.0 | 90.0 | 6.0 | 68.0 | 0.2 | NR | NR | NR | NR | NR | |
| 01/24/11 | 1242 | On | NR | NR | 19433.5 | 99.6 | NR | NR | 30.34 | NR | NR | NR | 5.0 | 78.0 | 6.5 | 68.0 | 0.2 | NR | NR | NR | NR | NR | |
| 01/25/11 | 0851 | On | NR | NR | 19453.7 | 20.2 | NR | NR | 30.07 | NR | NR | NR | 5.0 | 88.0 | 6.0 | 68.0 | 0.2 | NR | NR | NR | NR | NR | |
| 01/26/11 | 0918 | On | NR | NR | 19478.1 | 24.4 | NR | NR | 29.91 | NR | NR | NR | 4.5 | 98.0 | 6.0 | 72.0 | 0.2 | NR | NR | NR | NR | NR | |
| 01/27/11 | 1428 | On | NR | NR | 19507.3 | 29.2 | NR | NR | 29.82 | NR | NR | NR | 4.5 | 96.0 | 6.0 | 72.0 | 0.2 | NR | NR | NR | NR | NR | |
| 01/28/11 | 1216 | On | NR | NR | 19529.1 | 21.8 | NR | NR | 29.79 | NR | NR | NR | 5.0 | 96.0 | 6.0 | 70.0 | 0.1 | NR | NR | NR | NR | NR | |
| 01/31/11 | 1318 | On | NR | NR | 19602.1 | 73.0 | NR | NR | 30.54 | NR | NR | NR | 5.0 | 78.0 | 6.5 | 66.0 | 0.2 | NR | NR | NR | NR | NR | |

Notes:
NR = Not Recorded.
in Hg = inches of Mercury
F = degrees Farenheit
psi = Pressure per Square Inch
in $H_2O$ = inches of Water
cfm = Cubic Feet per Minute
ppm = Parts Per Million
lbs = Pounds
lbs/hr = Pounds per Hour

Table C-4
Site 1795C
November 2010 - January 2011 O&M Data
Fort Drum, NY

| Date | Time | System Condition | Sparge Hour Meter | Sparge Hours Operated | Sparge Influent Pressure (psi) | Sparge Influent Temperature (F) | Sparge Effluent Pressure (psi) | Sparge Effluent Temperature (F) | Sparge Differential Pressure (in $H_2O$) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| 11/01/10 | 0805 | On | 21841.6 | 69.3 | 7.5 | 118.0 | 9.5 | 52.0 | 0.45 | |
| 11/02/10 | 800 | On | 21865.4 | 23.8 | 8.0 | 100.0 | 9.5 | 44.0 | 0.45 | |
| 11/03/10 | 0730 | On | 21888.9 | 23.5 | 7.5 | 100.0 | 9.5 | 48.0 | 0.45 | |
| 11/04/10 | 0741 | On | 21912.5 | 23.6 | 7.0 | 116.0 | 8.5 | 60.0 | 0.45 | |
| 11/05/10 | 0701 | On | 21936.5 | 24.0 | 7.0 | 112.0 | 8.5 | 58.0 | 0.45 | |
| 11/08/10 | 1031 | On | 22013.0 | 76.5 | 7.0 | 106.0 | 10.0 | 50.0 | 0.50 | |
| 11/09/10 | 1227 | On | 22038.9 | 25.9 | 7.0 | 114.0 | 9.5 | 60.0 | 0.45 | |
| 11/10/10 | 1003 | On | 22060.5 | 21.6 | 7.5 | 108.0 | 10.0 | 54.0 | 0.50 | |
| 11/11/10 | 0859 | On | 22083.5 | 23.0 | 7.0 | 106.0 | 9.5 | 50.0 | 0.50 | |
| 11/12/10 | 1129 | On | 22109.9 | 26.4 | 6.5 | 128.0 | 7.0 | 78.0 | 0.50 | |
| 11/15/10 | 0833 | On | 22179.0 | 69.1 | 7.0 | 112.0 | 9.0 | 60.0 | 0.45 | |
| 11/16/10 | 1220 | On | 22206.8 | 27.8 | 6.0 | 128.0 | 7.5 | 76.0 | 0.45 | |
| 11/17/10 | 0739 | On | 22226.1 | 19.3 | 6.5 | 122.0 | 8.0 | 70.0 | 0.40 | |
| 11/18/10 | 0827 | On | 22250.9 | 24.8 | 7.0 | 110.0 | 9.0 | 58.0 | 0.40 | |
| 11/19/10 | 0742 | On | 22274.2 | 23.3 | 7.5 | 100.0 | 9.5 | 48.0 | 0.45 | |
| 11/22/10 | 1436 | On | 22353.1 | 78.9 | 6.5 | 124.0 | 8.0 | 68.0 | 0.45 | |
| 11/23/10 | 1141 | On | 22374.2 | 21.1 | 6.0 | 136.0 | 7.5 | 80.0 | 0.45 | |
| 11/24/10 | 0836 | On | 22395.1 | 20.9 | 7.0 | 102.0 | 10.0 | 48.0 | 0.45 | |
| 11/29/10 | 1149 | On | 22518.3 | 123.2 | 7.0 | 112.0 | 9.0 | 60.0 | 0.50 | |
| 11/30/10 | 0854 | On | 22539.4 | 21.1 | 6.5 | 118.0 | 8.0 | 64.0 | 0.50 | |
| 12/01/10 | 1341 | On | 22568.2 | 28.8 | 6.5 | 108.0 | 9.0 | 52.0 | 0.45 | |
| 12/02/10 | 1152 | On | 22590.3 | 22.1 | 7.5 | 102.0 | 9.5 | 48.0 | 0.50 | |
| 12/03/10 | 1109 | On | 22613.6 | 23.3 | 7.0 | 104.0 | 9.5 | 50.0 | 0.50 | |
| 12/06/10 | 1440 | On | 22689.1 | 75.5 | 7.0 | 94.0 | 9.5 | 38.0 | 0.50 | |
| 12/07/10 | 1358 | On | 22712.4 | 23.3 | 7.0 | 96.0 | 9.5 | 38.0 | 0.50 | |
| 12/08/10 | 1232 | On | 22735.0 | 22.6 | 7.0 | 98.0 | 9.5 | 50.0 | 0.50 | |
| 12/09/10 | 1440 | On | 22761.2 | 26.2 | 7.5 | 86.0 | 10.0 | 34.0 | 0.50 | |
| 12/10/10 | 1153 | On | 22782.4 | 21.2 | 7.0 | 100.0 | 9.5 | 68.0 | 0.45 | |
| 12/13/10 | 1347 | On | 22856.3 | 73.9 | 7.0 | 100.0 | 9.5 | 60.0 | 0.45 | |
| 12/14/10 | 1450 | On | 22881.3 | 25.0 | 7.0 | 90.0 | 9.5 | 56.0 | 0.50 | |
| 12/15/10 | 1413 | On | 22904.7 | 23.4 | 7.0 | 98.0 | 9.5 | 60.0 | 0.50 | |
| 12/16/10 | 1309 | On | 22927.6 | 22.9 | 7.0 | 102.0 | 9.5 | 70.0 | 0.45 | |
| 12/17/10 | 1050 | On | 22949.3 | 21.7 | 7.0 | 98.0 | 9.5 | 62.0 | 0.50 | |
| 12/20/10 | 1254 | On | 23023.4 | 74.1 | 7.0 | 108.0 | 9.0 | 70.0 | 0.50 | |
| 12/21/10 | 0951 | On | 23044.3 | 20.9 | 7.0 | 100.0 | 9.5 | 62.0 | 0.45 | |
| 12/27/10 | 1134 | On | 23190.0 | 145.7 | 7.0 | 98.0 | 9.5 | 58.0 | 0.50 | |
| 12/28/10 | 1020 | On | 23212.7 | 22.7 | 7.0 | 106.0 | 9.0 | 64.0 | 0.45 | |
| 12/29/10 | 1104 | On | 23237.5 | 24.8 | 7.0 | 112.0 | 9.0 | 72.0 | 0.45 | |
| 12/30/10 | 0747 | On | 23258.2 | 20.7 | 7.5 | 98.0 | 9.5 | 60.0 | 0.45 | |
| 01/03/11 | 0744 | On | 23354.2 | 96.0 | 7.5 | 100.0 | 9.5 | 55.0 | 0.45 | |
| 01/04/11 | 0808 | On | 23378.0 | 23.8 | 6.5 | 120.0 | 9.5 | 72.0 | 0.75 | |
| 01/05/11 | 0841 | On | 23402.5 | 24.5 | 6.5 | 112.0 | 10.0 | 68.0 | 0.80 | |
| 01/06/11 | 1031 | On | 23428.4 | 25.9 | 6.5 | 110.0 | 9.5 | 70.0 | 0.80 | |
| 01/07/11 | 0722 | On | 23449.2 | 20.8 | 6.5 | 112.0 | 9.0 | 70.0 | 0.75 | |
| 01/10/11 | 1105 | On | 23524.9 | 75.7 | 7.5 | 104.0 | 10.0 | 62.0 | 0.85 | |
| 01/11/11 | 0709 | On | 23545.0 | 20.1 | 7.5 | 102.0 | 10.0 | 56.0 | 0.80 | |
| 01/12/11 | 1253 | On | 23574.7 | 29.7 | 7.0 | 108.0 | 9.5 | 62.0 | 0.80 | |
| 01/13/11 | 0741 | On | 23593.5 | 18.8 | 7.0 | 102.0 | 10.0 | 58.0 | 0.85 | |
| 01/14/11 | 1503 | On | 23624.9 | 31.4 | 7.0 | 108.0 | 9.5 | 64.0 | 0.85 | |
| 01/17/11 | 0636 | On | 23688.4 | 63.5 | 7.0 | 78.0 | 10.0 | 40.0 | 0.95 | |
| 01/18/11 | 0824 | On | 23714.2 | 25.8 | 7.0 | 118.0 | 9.5 | 78.0 | 0.80 | |
| 01/19/11 | 0718 | On | 23737.2 | 23.0 | 7.0 | 110.0 | 9.5 | 60.0 | 0.80 | |
| 01/20/11 | 0859 | On | 23762.6 | 25.4 | 7.0 | 102.0 | 9.5 | 56.0 | 0.80 | |
| 01/24/11 | 1236 | On | 23862.4 | 99.8 | 7.0 | 86.0 | 10.0 | 42.0 | 0.95 | |
| 01/25/11 | 0836 | On | 23882.5 | 20.1 | 7.5 | 104.0 | 10.0 | 62.0 | 0.80 | |
| 01/26/11 | 0727 | On | 23905.3 | 22.8 | 7.5 | 118.0 | 9.5 | 72.0 | 0.80 | |
| 01/27/11 | 1438 | On | 23936.4 | 31.1 | 7.0 | 118.0 | 9.5 | 74.0 | 0.80 | |
| 01/28/11 | 1211 | On | 23958.0 | 21.6 | 7.0 | 118.0 | 9.5 | 78.0 | 0.80 | |
| 01/31/11 | 1311 | On | 24031.0 | 73.0 | 7.5 | 92.0 | 10.0 | 58.0 | 0.95 | |

Notes:
NR = Not Recorded.
psi = Pressure per Square Inch
F = degrees Farenheit
in $H_2O$ = inches of Water

# APPENDIX D

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

## Areas 3805 and 1995

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

**Areas 3805 and 1995**
**Fort Drum**

| 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 |

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

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

**Areas 3805 and 1995**
**Fort Drum**

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

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

**Areas 3805 and 1995**
**Fort Drum**

| 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-MW41 | 09/16/2004 | NR | 16.05 | - | - | - | - |
| | 04/20/2005 | NR | 16.10 | - | - | - | - |
| | 04/26/2006 | NR | 14.27 | - | - | - | - |
| | 10/04/2006 | NR | 16.65 | - | - | - | - |
| | 05/25/2007 | NR | 14.11 | - | - | - | - |
| 3805-MWD10 | 09/16/2004 | NR | 27.47 | - | - | - | - |
| | 04/20/2005 | NR | 26.17 | - | - | - | - |
| | 04/26/2006 | NR | 25.46 | - | - | - | - |
| | 10/04/2006 | NR | 28.14 | - | - | - | - |
| | 05/25/2007 | NR | 25.08 | - | - | - | - |
| 3805-MWD13 | 09/16/2004 | NR | 30.22 | - | - | - | - |
| | 04/20/2005 | NR | 29.40 | - | - | - | - |
| | 04/26/2006 | NR | 29.02 | - | - | - | - |
| | 10/04/2006 | NR | 30.62 | - | - | - | - |
| | 05/25/2007 | NR | 28.83 | - | - | - | - |
| 3805-MWD16 | 09/16/2004 | NR | 31.11 | - | - | - | - |
| | 04/20/2005 | NR | 30.61 | - | - | - | - |
| | 04/26/2006 | NR | 30.49 | - | - | - | - |
| | 10/04/2006 | NR | 31.12 | - | - | - | - |
| | 05/25/2007 | NR | 30.40 | - | - | - | - |
| 3805-MWD18 | 09/16/2004 | NR | 31.87 | - | - | - | - |
| | 04/20/2005 | NR | 31.60 | - | - | - | - |
| | 04/26/2006 | NR | 31.49 | - | - | - | - |
| | 10/04/2006 | NR | 32.41 | - | - | - | - |
| | 05/25/2007 | NR | 31.35 | - | - | - | - |
| 3805-MWI6 | 09/16/2004 | NR | 16.81 | - | - | - | - |
| | 04/20/2005 | NR | 14.92 | - | - | - | - |
| 3805-MWI9 | 09/16/2004 | NR | 26.28 | - | - | - | - |
| | 04/20/2005 | NR | 24.96 | - | - | - | - |
| | 04/26/2006 | NR | 24.22 | - | - | - | - |
| | 10/04/2006 | NR | 26.92 | - | - | - | - |
| | 05/25/2007 | NR | 23.86 | - | - | - | - |
| 3805-MWI12 | 09/16/2004 | NR | 30.10 | - | - | - | - |
| | 04/20/2005 | NR | 29.24 | - | - | - | - |
| | 04/26/2006 | NR | 28.83 | - | - | - | - |
| | 10/04/2006 | NR | 30.53 | - | - | - | - |
| | 05/25/2007 | NR | 28.66 | - | - | - | - |
| 3805-MWI15 | 09/16/2004 | NR | 29.41 | - | - | - | - |
| | 04/20/2005 | NR | 28.86 | - | - | - | - |
| | 04/26/2006 | NR | 28.71 | - | - | - | - |
| | 10/04/2006 | NR | 29.43 | - | - | - | - |

**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 | 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 | - | - | - | - |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 09/16/2004 | 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 | - | - | - | - |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 02/03/2003 | 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 Decomissioned During Souorce Area Construction | | | | | |
| 3805-P7 | 12/04/2002 | 660.08 | 19.85 | 640.23 | - | - | 640.23 |
| | 01/03/2003 | 660.08 | 19.54 | 640.54 | - | - | 640.54 |
| | 02/03/2003 | 660.08 | 21.90 | 638.18 | - | - | 638.18 |
| | 09/16/2004 | 660.08 | 16.34 | 643.74 | - | - | 643.74 |
| | 04/20/2005 | 660.08 | 15.15 | 644.93 | - | - | 644.93 |
| | 04/26/2006 | 660.08 | 14.38 | 645.70 | - | - | 645.70 |
| | 10/04/2006 | 660.08 | 17.33 | 642.75 | - | - | 642.75 |
| | 05/25/2007 | 660.08 | 14.12 | 645.96 | - | - | 645.96 |
| 3805-PZ1 | 12/04/2002 | 659.19 | 21.62 | 637.57 | - | - | 637.57 |
| | 01/03/2003 | 659.19 | 21.31 | 637.88 | - | - | 637.88 |
| | 02/03/2003 | 659.19 | 21.31 | 637.88 | - | - | 637.88 |
| | 09/16/2004 | 659.19 | 18.52 | 640.67 | - | - | 640.67 |
| | 04/20/2005 | 659.19 | 17.17 | 642.02 | - | - | 642.02 |
| | 04/26/2006 | 659.19 | 16.76 | 642.43 | - | - | 642.43 |
| | 10/04/2006 | 659.19 | 19.24 | 639.95 | - | - | 639.95 |
| | 05/25/2007 | 659.19 | 16.41 | 642.78 | - | - | 642.78 |
| 3805-PZ2D | 09/16/2004 | NR | 19.21 | - | - | - | - |
| | 04/20/2005 | NR | 17.75 | - | - | - | - |
| | 04/26/2006 | NR | 17.28 | - | - | - | - |

**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 | 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 |
| | 01/13/2010 | 659.08 | 14.86 | 644.22 | - | - | 644.22 |
| 3805-PZ10 | 12/04/2002 | 659.63 | NR | - | NR | - | - |
| | 01/03/2003 | 659.63 | 16.55 | 643.08 | 15.49 | 1.06 | 643.89 |
| | 02/03/2003 | 659.63 | 17.30 | 642.33 | 15.71 | 1.59 | 643.54 |
| | 09/16/2004 | 659.63 | 13.74 | 645.89 | 13.22 | 0.52 | 646.29 |
| | 04/20/2005 | 659.63 | 11.29 | 648.34 | 11.22 | 0.07 | 648.39 |
| | 04/26/2006 | 659.63 | 12.91 | 646.72 | 10.82 | 2.09 | 648.31 |
| | 10/04/2006 | 659.63 | 14.96 | 644.67 | 13.82 | 1.14 | 645.54 |
| | 05/25/2007 | 659.63 | 13.16 | 646.47 | 10.58 | 2.58 | 648.43 |
| | 09/18/2008 | 659.63 | 16.05 | 643.58 | 13.05 | 3.00 | 645.86 |
| | 10/23/2008 | 659.63 | 16.25 | 643.38 | 13.28 | 2.97 | 645.64 |
| | 12/31/2008 | 659.63 | 12.75 | 646.88 | 9.85 | 2.90 | 649.08 |
| | 01/28/2009 | 659.63 | 13.86 | 645.77 | 10.96 | 2.90 | 647.97 |
| | 02/25/2009 | 659.63 | 13.55 | 646.08 | 10.63 | 2.92 | 648.30 |
| | 03/27/2009 | 659.63 | 11.95 | 647.68 | 11.88 | 0.07 | 647.73 |
| | 04/29/2009 | 659.63 | 11.49 | 648.14 | - | - | 648.14 |
| | 05/20/2009 | 659.63 | 11.48 | 648.15 | - | - | 648.15 |
| | 06/25/2009 | 659.63 | 11.31 | 648.32 | - | - | 648.32 |
| | 07/21/2009 | 659.63 | 12.73 | 646.90 | - | - | 646.90 |
| | 08/25/2009 | 659.63 | 12.70 | 646.93 | - | - | 646.93 |
| | 09/16/2009 | 659.63 | 12.23 | 647.40 | - | - | 647.40 |
| | 10/14/2009 | 659.63 | 14.23 | 645.40 | - | - | 645.40 |
| | 11/10/2009 | 659.63 | 14.84 | 644.79 | 13.82 | 1.02 | 645.81 |
| | 12/14/2009 | 659.63 | 15.39 | 644.24 | - | - | 644.24 |
| | 01/11/2010 | 659.63 | 15.54 | 644.09 | - | - | 644.09 |
| | 02/10/2010 | 659.63 | 15.58 | 644.05 | - | - | 644.05 |
| | 03/10/2010 | 659.63 | 16.29 | 643.34 | - | - | 643.34 |
| | 04/14/2010 | 659.63 | 15.78 | 643.85 | - | - | 643.85 |

**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) |
|---|---|---|---|---|---|---|---|
| | 05/12/2010 | 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 |
| | 01/13/2010 | 659.63 | 13.53 | 646.10 | - | - | 646.10 |
| 3805-PZ11 | 12/04/2002 | 655.38 | 23.40 | 631.98 | - | - | 631.98 |
| | 01/03/2003 | 655.38 | 23.04 | 632.34 | - | - | 632.34 |
| | 02/03/2003 | 655.38 | 23.05 | 632.33 | - | - | 632.33 |
| | 09/16/2004 | 655.38 | 20.84 | 634.54 | - | - | 634.54 |
| | 04/20/2005 | 655.38 | 19.47 | 635.91 | - | - | 635.91 |
| | 04/26/2006 | 655.38 | 19.26 | 636.12 | - | - | 636.12 |
| | 10/04/2006 | 655.38 | 21.62 | 633.76 | - | - | 633.76 |
| | 05/25/2007 | 655.38 | 18.92 | 636.46 | - | - | 636.46 |
| 3805-PZ12 | 04/20/2005 | NR | 24.63 | - | - | - | - |
| | 04/26/2006 | NR | 24.10 | - | - | - | - |
| | 10/04/2006 | NR | 26.14 | - | - | - | - |
| | 05/25/2007 | NR | 24.06 | - | - | - | - |
| 3805-PZ12D | 09/16/2004 | NR | 25.90 | - | - | - | - |
| | | Well Decomissioned During Souorce 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 | - | - | - | - |

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

**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) |
|---|---|---|---|---|---|---|---|
| | 09/16/2004 | 658.31 | 16.99 | 641.32 | 16.41 | 0.58 | 641.76 |
| | 04/20/2005 | 658.31 | 15.48 | 642.83 | 15.46 | 0.02 | 642.85 |
| | 04/26/2006 | 658.31 | 14.40 | 643.91 | - | - | 643.91 |
| | 10/04/2006 | 658.31 | 17.60 | 640.71 | - | - | 640.71 |
| | 05/25/2007 | 658.31 | 13.87 | 644.44 | - | - | 644.44 |
| 3805-RW6 | 12/04/2002 | 658.93 | 21.53 | 637.40 | - | - | 637.40 |
| | 01/03/2003 | 658.93 | 21.22 | 637.71 | - | - | 637.71 |
| | 02/03/2003 | 658.93 | 21.24 | 637.69 | - | - | 637.69 |
| | 09/16/2004 | 658.93 | 18.67 | 640.26 | - | - | 640.26 |
| | 04/20/2005 | 658.93 | 17.62 | 641.31 | - | - | 641.31 |
| | 04/26/2006 | 658.93 | 16.79 | 642.14 | - | - | 642.14 |
| | 10/04/2006 | 658.93 | 19.12 | 639.81 | - | - | 639.81 |
| | 05/25/2007 | 658.93 | 16.40 | 642.53 | - | - | 642.53 |
| 3805-RW7 | 12/04/2002 | 659.01 | 19.08 | 639.93 | 19.05 | 0.03 | 639.95 |
| | 01/03/2003 | 659.01 | 18.90 | 640.11 | 18.60 | 0.30 | 640.34 |
| | 02/03/2003 | 659.01 | 18.74 | 640.27 | 18.72 | 0.02 | 640.29 |
| | 09/16/2004 | 659.01 | 15.51 | 643.50 | - | - | 643.50 |
| | 04/20/2005 | 659.01 | 13.85 | 645.16 | - | - | 645.16 |
| | 04/26/2006 | 659.01 | 13.55 | 645.46 | - | - | 645.46 |
| | 10/04/2006 | 659.01 | 16.45 | 642.56 | - | - | 642.56 |
| | 05/25/2007 | 659.01 | 13.05 | 645.96 | - | - | 645.96 |
| 3805-RW8 | 12/04/2002 | 657.55 | 23.56 | 633.99 | 23.43 | 0.13 | 634.09 |
| | 01/03/2003 | 657.55 | 23.29 | 634.26 | 23.27 | 0.02 | 634.28 |
| | 02/03/2003 | 657.55 | 23.31 | 634.24 | - | - | 634.24 |
| | 09/16/2004 | 657.55 | 20.06 | 637.49 | - | - | 637.49 |
| | 04/20/2005 | 657.55 | 19.20 | 638.35 | - | - | 638.35 |
| | 04/26/2006 | 657.55 | 19.31 | 638.24 | - | - | 638.24 |
| | 10/04/2006 | 657.55 | 20.15 | 637.40 | - | - | 637.40 |
| | 05/25/2007 | 657.55 | 18.73 | 638.82 | - | - | 638.82 |
| 3805-RW9 | 12/04/2002 | 656.33 | 20.78 | 635.55 | 20.25 | 0.53 | 635.95 |
| | 01/03/2003 | 656.33 | 27.78 | 628.55 | 26.73 | 1.05 | 629.35 |
| | 02/03/2003 | 656.33 | 31.10 | 625.23 | 30.21 | 0.89 | 625.91 |
| | 09/16/2004 | 656.33 | 17.82 | 638.51 | 17.42 | 0.40 | 638.81 |
| | 04/20/2005 | 656.33 | 15.80 | 640.53 | - | - | 640.53 |
| | 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 |

**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-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 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 06/13/2005 | 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 | - | - |
| | 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 |

**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 | 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 |

**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 | 653.87 | 21.56 | 632.31 | - | - | 632.31 |
| | 10/17/2005 | 653.87 | 19.83 | 634.04 | - | - | 634.04 |
| | 01/09/2006 | 653.87 | 19.59 | 634.28 | - | - | 634.28 |
| | 04/03/2006 | 653.87 | 18.28 | 635.59 | 18.26 | 0.02 | 635.61 |
| | 05/31/2006 | 653.87 | 16.55 | 637.32 | - | - | 637.32 |
| | 06/12/2006 | 653.87 | NR | - | NR | - | - |
| | 08/02/2006 | 653.87 | 20.61 | 633.26 | - | - | 633.26 |
| | 09/06/2006 | 653.87 | 21.62 | 632.25 | - | - | 632.25 |
| | 11/01/2006 | 653.87 | 21.78 | 632.09 | - | - | 632.09 |
| | 01/09/2007 | 653.87 | 19.22 | 634.65 | - | - | 634.65 |
| | 05/07/2007 | 653.87 | 19.42 | 634.45 | - | - | 634.45 |
| | 07/24/2007 | 653.87 | 20.13 | 633.74 | - | - | 633.74 |
| | 10/16/2007 | 653.87 | 21.74 | 632.13 | - | - | 632.13 |
| | 01/11/2008 | 653.87 | 20.05 | 633.82 | - | - | 633.82 |
| | 06/24/2008 | 653.87 | 19.35 | 634.52 | - | - | 634.52 |
| 2-6M | 04/04/2005 | 651.57 | 20.96 | 630.61 | - | - | 630.61 |
| | 05/16/2005 | 651.57 | 20.99 | 630.58 | - | - | 630.58 |
| | 06/13/2005 | 651.57 | 21.40 | 630.17 | - | - | 630.17 |
| | 07/11/2005 | 651.57 | 21.75 | 629.82 | - | - | 629.82 |
| | 08/22/2005 | 651.57 | 22.17 | 629.40 | - | - | 629.40 |
| | 10/17/2005 | 651.57 | 21.36 | 630.21 | - | - | 630.21 |
| | 01/09/2006 | 651.57 | 20.74 | 630.83 | - | - | 630.83 |
| | 04/03/2006 | 651.57 | 19.74 | 631.83 | - | - | 631.83 |
| | 05/31/2006 | 651.57 | 20.51 | 631.06 | - | - | 631.06 |
| | 06/12/2006 | 651.57 | NR | - | NR | - | - |
| | 08/02/2006 | 651.57 | 21.26 | 630.31 | - | - | 630.31 |
| | 09/06/2006 | 651.57 | 21.61 | 629.96 | - | - | 629.96 |
| | 11/01/2006 | 651.57 | 21.89 | 629.68 | - | - | 629.68 |
| | 01/09/2007 | 651.57 | 20.47 | 631.10 | - | - | 631.10 |
| | 05/07/2007 | 651.57 | 19.52 | 632.05 | - | - | 632.05 |
| | 07/24/2007 | 651.57 | 20.81 | 630.76 | - | - | 630.76 |
| | 10/16/2007 | 651.57 | 22.12 | 629.45 | - | - | 629.45 |
| | 01/11/2008 | 651.57 | 21.40 | 630.17 | - | - | 630.17 |
| | 06/24/2008 | 651.57 | 20.85 | 630.72 | - | - | 630.72 |
| 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 |

**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 | 652.90 | 16.86 | 636.04 | - | - | 636.04 |
| | 07/24/2007 | 652.90 | 18.27 | 634.63 | - | - | 634.63 |
| | 10/16/2007 | 652.90 | 19.66 | 633.24 | - | - | 633.24 |
| | 01/11/2008 | 652.90 | 18.56 | 634.34 | - | - | 634.34 |
| | 06/24/2008 | 652.90 | 17.90 | 635.00 | - | - | 635.00 |
| 2-8M | 04/04/2005 | 651.28 | 19.04 | 632.24 | - | - | 632.24 |
| | 05/16/2005 | 651.28 | 19.02 | 632.26 | - | - | 632.26 |
| | 06/13/2005 | 651.28 | 19.42 | 631.86 | - | - | 631.86 |
| | 07/11/2005 | 651.28 | 19.86 | 631.42 | - | - | 631.42 |
| | 08/22/2005 | 651.28 | 20.41 | 630.87 | - | - | 630.87 |
| | 10/17/2005 | 651.28 | 19.46 | 631.82 | - | - | 631.82 |
| | 01/09/2006 | 651.28 | 18.48 | 632.80 | - | - | 632.80 |
| | 04/03/2006 | 651.28 | 17.56 | 633.72 | - | - | 633.72 |
| | 05/31/2006 | 651.28 | 18.39 | 632.89 | - | - | 632.89 |
| | 06/12/2006 | 651.28 | NR | - | NR | - | - |
| | 08/02/2006 | 651.28 | 19.31 | 631.97 | - | - | 631.97 |
| | 09/06/2006 | 651.28 | 19.81 | 631.47 | - | - | 631.47 |
| | 11/01/2006 | 651.28 | 20.23 | 631.05 | - | - | 631.05 |
| | 01/09/2007 | 651.28 | 18.49 | 632.79 | - | - | 632.79 |
| | 05/07/2007 | 651.28 | 17.56 | 633.72 | - | - | 633.72 |
| | 07/24/2007 | 651.28 | 18.85 | 632.43 | - | - | 632.43 |
| | 10/16/2007 | 651.28 | 20.62 | 630.66 | - | - | 630.66 |
| | 01/11/2008 | 651.28 | 19.40 | 631.88 | - | - | 631.88 |
| | 06/24/2008 | 651.28 | 19.05 | 632.23 | Sheen | - | 632.23 |
| 3-1M | 04/04/2005 | 651.96 | 17.13 | 634.83 | - | - | 634.83 |
| | 05/16/2005 | 651.96 | 17.43 | 634.53 | - | - | 634.53 |
| | 06/13/2005 | 651.96 | 17.93 | 634.03 | - | - | 634.03 |
| | 07/11/2005 | 651.96 | 18.38 | 633.58 | - | - | 633.58 |
| | 08/22/2005 | 651.96 | 18.84 | 633.12 | - | - | 633.12 |
| | 10/17/2005 | 651.96 | 17.53 | 634.43 | - | - | 634.43 |
| | 01/09/2006 | 651.96 | 15.30 | 636.66 | - | - | 636.66 |
| | 04/03/2006 | 651.96 | 15.48 | 636.48 | - | - | 636.48 |
| | 05/31/2006 | 651.96 | 16.53 | 635.43 | - | - | 635.43 |
| | 06/12/2006 | 651.96 | NR | - | NR | - | - |
| | 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 |

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

**Areas 3805 and 1995**
**Fort Drum**

| Monitoring Well | Date | Top of Casing (ft) | Depth to Water (ft) | GW Elevation (ft) | Depth to Product (ft) | Product Thickness (ft) | Prod Adj GW Elevation (ft) |
|---|---|---|---|---|---|---|---|
| | 03/27/2009 | 651.96 | 15.15 | 636.81 | - | - | 636.81 |
| | 04/29/2009 | 651.96 | 15.28 | 636.68 | - | - | 636.68 |
| | 05/20/2009 | 651.96 | 15.48 | 636.48 | - | - | 636.48 |
| | 06/25/2009 | 651.96 | 15.16 | 636.80 | - | - | 636.80 |
| | 07/21/2009 | 651.96 | 15.82 | 636.14 | - | - | 636.14 |
| | 08/25/2009 | 651.96 | 16.55 | 635.41 | - | - | 635.41 |
| | 09/16/2009 | 651.96 | 19.01 | 632.95 | - | - | 632.95 |
| | 10/14/2009 | 651.96 | 17.43 | 634.53 | - | - | 634.53 |
| | 11/10/2009 | 651.96 | 17.83 | 634.13 | - | - | 634.13 |
| | 12/14/2009 | 651.96 | 18.01 | 633.95 | - | - | 633.95 |
| | 01/11/2010 | 651.96 | 18.16 | 633.80 | - | - | 633.80 |
| | 02/10/2010 | 651.96 | 17.21 | 634.75 | - | - | 634.75 |
| | 03/10/2010 | 651.96 | 18.51 | 633.45 | - | - | 633.45 |
| | 04/14/2010 | 651.96 | 18.13 | 633.83 | - | - | 633.83 |
| | 05/12/2010 | 651.96 | 18.63 | 633.33 | - | - | 633.33 |
| | 06/17/2010 | 651.96 | 19.06 | 632.90 | - | - | 632.90 |
| | 07/14/2010 | 651.96 | 19.28 | 632.68 | - | - | 632.68 |
| | 08/09/2010 | 651.96 | 19.23 | 632.73 | - | - | 632.73 |
| | 09/16/2010 | 651.96 | 19.23 | 632.73 | - | - | 632.73 |
| | 10/13/2010 | 651.96 | 18.08 | 633.88 | - | - | 633.88 |
| | 11/16/2010 | 651.96 | 17.71 | 634.25 | - | - | 634.25 |
| | 12/16/2010 | 651.96 | 17.39 | 634.57 | - | - | 634.57 |
| | 01/13/2010 | 651.96 | 17.28 | 634.68 | - | - | 634.68 |
| 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 |

**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 | 653.49 | 15.77 | 637.72 | - | - | 637.72 |
| | 04/03/2006 | 653.49 | 15.03 | 638.46 | - | - | 638.46 |
| | 05/31/2006 | 653.49 | 15.98 | 637.51 | - | - | 637.51 |
| | 06/12/2006 | 653.49 | NR | - | NR | - | - |
| | 08/02/2006 | 653.49 | NR | - | NR | - | - |
| | 09/06/2006 | 653.49 | 17.43 | 636.06 | - | - | 636.06 |
| | 11/01/2006 | 653.49 | 18.21 | 635.28 | - | - | 635.28 |
| | 01/09/2007 | 653.49 | 16.45 | 637.04 | - | - | 637.04 |
| | 05/07/2007 | 653.49 | 15.21 | 638.28 | - | - | 638.28 |
| | 07/24/2007 | 653.49 | 17.46 | 636.03 | - | - | 636.03 |
| | 10/16/2007 | 653.49 | 18.54 | 634.95 | - | - | 634.95 |
| | 01/11/2008 | 653.49 | 17.30 | 636.19 | - | - | 636.19 |
| | 06/23/2008 | 653.49 | 16.35 | 637.14 | - | - | 637.14 |
| 3-4M | 04/04/2005 | 654.29 | 16.97 | 637.32 | - | - | 637.32 |
| | 05/16/2005 | 654.29 | 17.30 | 636.99 | - | - | 636.99 |
| | 06/13/2005 | 654.29 | 17.74 | 636.55 | - | - | 636.55 |
| | 07/11/2005 | 654.29 | 18.08 | 636.21 | - | - | 636.21 |
| | 08/22/2005 | 654.29 | 18.63 | 635.66 | - | - | 635.66 |
| | 10/17/2005 | 654.29 | 17.12 | 637.17 | - | - | 637.17 |
| | 01/09/2006 | 654.29 | 15.91 | 638.38 | - | - | 638.38 |
| | 04/03/2006 | 654.29 | 15.17 | 639.12 | - | - | 639.12 |
| | 05/31/2006 | 654.29 | 16.10 | 638.19 | - | - | 638.19 |
| | 06/12/2006 | 654.29 | NR | - | NR | - | - |
| | 08/02/2006 | 654.29 | NR | - | NR | - | - |
| | 09/06/2006 | 654.29 | 17.51 | 636.78 | - | - | 636.78 |
| | 11/01/2006 | 654.29 | 18.37 | 635.92 | - | - | 635.92 |
| | 01/09/2007 | 654.29 | 16.72 | 637.57 | - | - | 637.57 |
| | 05/07/2007 | 654.29 | 15.40 | 638.89 | - | - | 638.89 |
| | 07/24/2007 | 654.29 | 17.71 | 636.58 | - | - | 636.58 |
| | 10/16/2007 | 654.29 | 18.64 | 635.65 | - | - | 635.65 |
| | 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 |

**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 | 654.56 | 18.07 | 636.49 | - | - | 636.49 |
| | 01/11/2008 | 654.56 | 16.99 | 637.57 | - | - | 637.57 |
| | 06/23/2008 | 654.56 | 15.98 | 638.58 | - | - | 638.58 |
| 4-1M | 04/04/2005 | 651.76 | 14.17 | 637.59 | - | - | 637.59 |
| | 05/16/2005 | 651.76 | 14.81 | 636.95 | 14.80 | 0.01 | 636.96 |
| | 06/13/2005 | 651.76 | 15.26 | 636.50 | - | - | 636.50 |
| | 07/11/2005 | 651.76 | 15.77 | 635.99 | 15.72 | 0.05 | 636.03 |
| | 08/22/2005 | 651.76 | 16.38 | 635.38 | 16.31 | 0.07 | 635.43 |
| | 10/17/2005 | 651.76 | 13.96 | 637.80 | - | - | 637.80 |
| | 01/09/2006 | 651.76 | 13.29 | 638.47 | - | - | 638.47 |
| | 04/03/2006 | 651.76 | 12.49 | 639.27 | - | - | 639.27 |
| | 05/31/2006 | 651.76 | 13.55 | 638.21 | - | - | 638.21 |
| | 06/12/2006 | 651.76 | NR | - | NR | - | - |
| | 08/02/2006 | 651.76 | NR | - | NR | - | - |
| | 09/06/2006 | 651.76 | 15.16 | 636.60 | - | - | 636.60 |
| | 11/01/2006 | 651.76 | 15.18 | 636.58 | - | - | 636.58 |
| | 01/09/2007 | 651.76 | 13.65 | 638.11 | - | - | 638.11 |
| | 05/07/2007 | 651.76 | 12.32 | 639.44 | - | - | 639.44 |
| | 07/24/2007 | 651.76 | 14.75 | 637.01 | - | - | 637.01 |
| | 10/16/2007 | 651.76 | 16.35 | 635.41 | - | - | 635.41 |
| | 01/11/2008 | 651.76 | 14.43 | 637.33 | - | - | 637.33 |
| | 06/23/2008 | 651.76 | 13.43 | 638.33 | - | - | 638.33 |
| | 09/18/2008 | 651.76 | 12.75 | 639.01 | - | - | 639.01 |
| | 10/23/2008 | 651.76 | 14.33 | 637.43 | - | - | 637.43 |
| | 12/31/2008 | 651.76 | 10.46 | 641.30 | - | - | 641.30 |
| | 01/28/2009 | 651.76 | 11.36 | 640.40 | - | - | 640.40 |
| | 02/25/2009 | 651.76 | 11.82 | 639.94 | - | - | 639.94 |
| | 03/27/2009 | 651.76 | 12.05 | 639.71 | - | - | 639.71 |
| | 04/29/2009 | 651.76 | 12.09 | 639.67 | - | - | 639.67 |
| | 05/20/2009 | 651.76 | 12.16 | 639.60 | Sheen | - | 639.60 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 01/13/2010 | 651.76 | 14.31 | 637.45 | - | - | 637.45 |
| 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 |

**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 | 652.96 | 14.74 | 638.22 | - | - | 638.22 |
| | 06/12/2006 | 652.96 | NR | - | NR | - | - |
| | 08/02/2006 | 652.96 | NR | - | NR | - | - |
| | 09/06/2006 | 652.96 | 16.24 | 636.72 | - | - | 636.72 |
| | 11/01/2006 | 652.96 | 16.91 | 636.05 | - | - | 636.05 |
| | 01/09/2007 | 652.96 | 15.15 | 637.81 | - | - | 637.81 |
| | 05/07/2007 | 652.96 | 13.86 | 639.10 | - | - | 639.10 |
| | 07/24/2007 | 652.96 | 16.20 | 636.76 | - | - | 636.76 |
| | 10/16/2007 | 652.96 | 17.50 | 635.46 | - | - | 635.46 |
| | 01/11/2008 | 652.96 | 16.09 | 636.87 | - | - | 636.87 |
| | 06/23/2008 | 652.96 | 14.98 | 637.98 | - | - | 637.98 |
| | 09/18/2008 | 652.96 | 15.17 | 637.79 | - | - | 637.79 |
| | 10/23/2008 | 652.96 | 15.35 | 637.61 | - | - | 637.61 |
| | 12/31/2008 | 652.96 | 12.55 | 640.41 | - | - | 640.41 |
| | 01/28/2009 | 652.96 | 13.05 | 639.91 | - | - | 639.91 |
| | 02/25/2009 | 652.96 | 13.41 | 639.55 | - | - | 639.55 |
| | 03/27/2009 | 652.96 | 13.52 | 639.44 | - | - | 639.44 |
| | 04/29/2009 | 652.96 | 13.41 | 639.55 | - | - | 639.55 |
| | 05/20/2009 | 652.96 | 13.61 | 639.35 | - | - | 639.35 |
| | 06/25/2009 | 652.96 | 13.16 | 639.80 | - | - | 639.80 |
| | 07/21/2009 | 652.96 | 13.99 | 638.97 | - | - | 638.97 |
| | 08/25/2009 | 652.96 | 13.60 | 639.36 | - | - | 639.36 |
| | 09/16/2009 | 652.96 | 18.25 | 634.71 | - | - | 634.71 |
| | 10/14/2009 | 652.96 | 15.49 | 637.47 | - | - | 637.47 |
| | 11/10/2009 | 652.96 | 15.96 | 637.00 | - | - | 637.00 |
| | 12/14/2009 | 652.96 | 16.21 | 636.75 | - | - | 636.75 |
| | 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 |
| | 01/13/2010 | 652.96 | 15.48 | 637.48 | - | - | 637.48 |
| 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 | - | - |

**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 | 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 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| 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 |
| | 01/13/2010 | 655.53 | 15.46 | 640.07 | - | - | 640.07 |
| 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 |

**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 | 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 |
| | 01/13/2010 | 656.27 | 14.46 | 641.81 | - | - | 641.81 |
| 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 |

**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 | 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 |
| | 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 |
| | 01/13/2010 | 653.01 | 13.18 | 639.83 | - | - | 639.83 |
| 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 |

**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 | 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 |
| | 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 |

**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 | 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 |
| | 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 |

**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 | 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 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 01/13/2010 | 655.66 | 14.17 | 641.49 | - | - | 641.49 |
| 5-9M | 04/04/2005 | 656.01 | 14.64 | 641.37 | 14.37 | 0.27 | 641.58 |
| | 05/16/2005 | 656.01 | 14.98 | 641.03 | 14.40 | 0.58 | 641.47 |
| | 06/13/2005 | 656.01 | 14.75 | 641.26 | - | - | 641.26 |
| | 07/11/2005 | 656.01 | 15.14 | 640.87 | 15.13 | 0.01 | 640.88 |
| | 08/22/2005 | 656.01 | 15.80 | 640.21 | 15.79 | 0.01 | 640.22 |
| | 10/17/2005 | 656.01 | 14.10 | 641.91 | - | - | 641.91 |
| | 01/09/2006 | 656.01 | 13.08 | 642.93 | 13.05 | 0.03 | 642.95 |
| | 04/03/2006 | 656.01 | 12.20 | 643.81 | - | - | 643.81 |
| | 05/31/2006 | 656.01 | 13.10 | 642.91 | - | - | 642.91 |
| | 06/12/2006 | 656.01 | NR | - | NR | - | - |
| | 08/02/2006 | 656.01 | 14.32 | 641.69 | - | - | 641.69 |
| | 09/06/2006 | 656.01 | 14.67 | 641.34 | - | - | 641.34 |
| | 11/01/2006 | 656.01 | 15.16 | 640.85 | - | - | 640.85 |
| | 01/09/2007 | 656.01 | 13.49 | 642.52 | - | - | 642.52 |
| | 05/07/2007 | 656.01 | 12.04 | 643.97 | - | - | 643.97 |
| | 07/24/2007 | 656.01 | 14.07 | 641.94 | - | - | 641.94 |
| | 10/16/2007 | 656.01 | 15.98 | 640.03 | - | - | 640.03 |
| | 01/11/2008 | 656.01 | 14.71 | 641.30 | - | - | 641.30 |
| | 06/23/2008 | 656.01 | 13.45 | 642.56 | - | - | 642.56 |
| 5-10M | 04/04/2005 | 656.61 | 15.32 | 641.29 | - | - | 641.29 |
| | 05/16/2005 | 656.61 | 15.28 | 641.33 | - | - | 641.33 |
| | 06/13/2005 | 656.61 | 15.63 | 640.98 | - | - | 640.98 |
| | 07/11/2005 | 656.61 | 15.99 | 640.62 | - | - | 640.62 |
| | 08/22/2005 | 656.61 | 16.62 | 639.99 | - | - | 639.99 |
| | 10/17/2005 | 656.61 | 15.12 | 641.49 | - | - | 641.49 |
| | 01/09/2006 | 656.61 | 13.94 | 642.67 | 13.92 | 0.02 | 642.69 |
| | 04/03/2006 | 656.61 | 13.12 | 643.49 | - | - | 643.49 |
| | 05/31/2006 | 656.61 | 14.01 | 642.60 | - | - | 642.60 |
| | 06/12/2006 | 656.61 | NR | - | NR | - | - |
| | 08/02/2006 | 656.61 | 14.91 | 641.70 | - | - | 641.70 |
| | 09/06/2006 | 656.61 | 15.53 | 641.08 | - | - | 641.08 |
| | 11/01/2006 | 656.61 | 15.93 | 640.68 | - | - | 640.68 |
| | 01/09/2007 | 656.61 | 14.26 | 642.35 | - | - | 642.35 |
| | 05/07/2007 | 656.61 | 12.98 | 643.63 | - | - | 643.63 |
| | 07/24/2007 | 656.61 | 14.77 | 641.84 | - | - | 641.84 |
| | 10/16/2007 | 656.61 | 16.80 | 639.81 | 16.74 | 0.06 | 639.86 |
| | 01/11/2008 | 656.61 | 15.68 | 640.93 | - | - | 640.93 |
| | 06/23/2008 | 656.61 | 14.24 | 642.37 | - | - | 642.37 |
| 5-11M | 04/04/2005 | 657.63 | 15.45 | 642.18 | - | - | 642.18 |
| | 05/16/2005 | 657.63 | 15.33 | 642.30 | - | - | 642.30 |
| | 06/13/2005 | 657.63 | 15.68 | 641.95 | - | - | 641.95 |
| | 07/11/2005 | 657.63 | 16.04 | 641.59 | - | - | 641.59 |
| | 08/22/2005 | 657.63 | 16.63 | 641.00 | - | - | 641.00 |
| | 10/17/2005 | 657.63 | 14.90 | 642.73 | - | - | 642.73 |
| | 01/09/2006 | 657.63 | 13.94 | 643.69 | 13.92 | 0.02 | 643.71 |
| | 04/03/2006 | 657.63 | 13.06 | 644.57 | - | - | 644.57 |

**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 | 657.63 | 13.97 | 643.66 | - | - | 643.66 |
| | 06/12/2006 | 657.63 | NR | - | NR | - | - |
| | 08/02/2006 | 657.63 | 14.90 | 642.73 | - | - | 642.73 |
| | 09/06/2006 | 657.63 | 15.56 | 642.07 | - | - | 642.07 |
| | 11/01/2006 | 657.63 | 15.79 | 641.84 | - | - | 641.84 |
| | 01/09/2007 | 657.63 | 14.12 | 643.51 | - | - | 643.51 |
| | 05/07/2007 | 657.63 | 12.86 | 644.77 | - | - | 644.77 |
| | 07/24/2007 | 657.63 | 14.70 | 642.93 | - | - | 642.93 |
| | 10/16/2007 | 657.63 | 16.68 | 640.95 | - | - | 640.95 |
| | 01/11/2008 | 657.63 | 15.67 | 641.96 | - | - | 641.96 |
| | 06/23/2008 | 657.63 | 14.07 | 643.56 | - | - | 643.56 |
| | 09/18/2008 | 657.63 | 14.38 | 643.25 | - | - | 643.25 |
| | 10/23/2008 | 657.63 | 14.59 | 643.04 | - | - | 643.04 |
| | 12/30/2008 | 657.63 | 10.70 | 646.93 | - | - | 646.93 |
| | 01/28/2009 | 657.63 | 9.45 | 648.18 | - | - | 648.18 |
| | 02/25/2009 | 657.63 | 11.40 | 646.23 | - | - | 646.23 |
| | 03/27/2009 | 657.63 | 12.05 | 645.58 | - | - | 645.58 |
| | 04/29/2009 | 657.63 | 12.34 | 645.29 | - | - | 645.29 |
| | 05/20/2009 | 657.63 | 12.28 | 645.35 | - | - | 645.35 |
| | 06/25/2009 | 657.63 | 11.92 | 645.71 | - | - | 645.71 |
| | 07/21/2009 | 657.63 | 12.82 | 644.81 | - | - | 644.81 |
| | 08/25/2009 | 657.63 | 13.40 | 644.23 | - | - | 644.23 |
| | 09/16/2009 | 657.63 | 18.93 | 638.70 | - | - | 638.70 |
| | 10/14/2009 | 657.63 | 14.61 | 643.02 | - | - | 643.02 |
| | 11/10/2009 | 657.63 | 14.98 | 642.65 | - | - | 642.65 |
| | 12/14/2009 | 657.63 | 15.31 | 642.32 | - | - | 642.32 |
| | 01/11/2010 | 657.63 | 15.47 | 642.16 | - | - | 642.16 |
| | 02/10/2010 | 657.63 | 15.38 | 642.25 | - | - | 642.25 |
| | 03/10/2010 | 657.63 | 16.17 | 641.46 | - | - | 641.46 |
| | 04/14/2010 | 657.63 | 15.74 | 641.89 | - | - | 641.89 |
| | 05/12/2010 | 657.63 | 16.36 | 641.27 | - | - | 641.27 |
| | 06/17/2010 | 657.63 | 16.79 | 640.84 | - | - | 640.84 |
| | 07/14/2010 | 657.63 | 17.06 | 640.57 | - | - | 640.57 |
| | 09/16/2010 | 657.63 | 16.42 | 641.21 | - | - | 641.21 |
| | 10/13/2010 | 657.63 | 15.20 | 642.43 | - | - | 642.43 |
| | 11/16/2010 | 657.63 | 15.31 | 642.32 | - | - | 642.32 |
| | 12/16/2010 | 657.63 | 14.57 | 643.06 | - | - | 643.06 |
| | 01/13/2010 | 657.63 | 14.57 | 643.06 | - | - | 643.06 |
| 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 |

**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 | 653.44 | 12.74 | 640.70 | - | - | 640.70 |
| | 11/01/2006 | 653.44 | 12.74 | 640.70 | - | - | 640.70 |
| | 01/09/2007 | 653.44 | 11.08 | 642.36 | - | - | 642.36 |
| | 05/07/2007 | 653.44 | 9.65 | 643.79 | - | - | 643.79 |
| | 07/24/2007 | 653.44 | 11.78 | 641.66 | - | - | 641.66 |
| | 10/16/2007 | 653.44 | 13.80 | 639.64 | - | - | 639.64 |
| | 01/11/2008 | 653.44 | 12.20 | 641.24 | - | - | 641.24 |
| | 07/07/2008 | 653.44 | 11.45 | 641.99 | - | - | 641.99 |
| 6-2M | 04/04/2005 | 653.65 | 12.79 | 640.86 | - | - | 640.86 |
| | 05/16/2005 | 653.65 | 13.09 | 640.56 | - | - | 640.56 |
| | 06/13/2005 | 653.65 | 13.47 | 640.18 | - | - | 640.18 |
| | 07/11/2005 | 653.65 | 13.86 | 639.79 | - | - | 639.79 |
| | 08/22/2005 | 653.65 | 14.35 | 639.30 | - | - | 639.30 |
| | 10/17/2005 | 653.65 | 12.47 | 641.18 | - | - | 641.18 |
| | 01/09/2006 | 653.65 | 11.59 | 642.06 | - | - | 642.06 |
| | 04/03/2006 | 653.65 | 10.61 | 643.04 | - | - | 643.04 |
| | 05/31/2006 | 653.65 | 11.63 | 642.02 | - | - | 642.02 |
| | 06/12/2006 | 653.65 | 11.90 | 641.75 | - | - | 641.75 |
| | 08/02/2006 | 653.65 | 12.87 | 640.78 | - | - | 640.78 |
| | 09/06/2006 | 653.65 | 13.44 | 640.21 | - | - | 640.21 |
| | 11/01/2006 | 653.65 | 13.62 | 640.03 | - | - | 640.03 |
| | 01/09/2007 | 653.65 | 11.92 | 641.73 | - | - | 641.73 |
| | 05/07/2007 | 653.65 | 10.47 | 643.18 | - | - | 643.18 |
| | 07/24/2007 | 653.65 | 12.61 | 641.04 | - | - | 641.04 |
| | 10/16/2007 | 653.65 | 14.45 | 639.20 | - | - | 639.20 |
| | 01/11/2008 | 653.65 | 12.99 | 640.66 | - | - | 640.66 |
| | 07/07/2008 | 653.65 | 12.25 | 641.40 | - | - | 641.40 |
| | 09/18/2008 | 653.65 | 12.12 | 641.53 | - | - | 641.53 |
| | 10/23/2008 | 653.65 | 12.61 | 641.04 | - | - | 641.04 |
| | 12/31/2008 | 653.65 | 9.00 | 644.65 | - | - | 644.65 |
| | 01/28/2009 | 653.65 | 9.82 | 643.83 | - | - | 643.83 |
| | 02/25/2009 | 653.65 | 9.68 | 643.97 | - | - | 643.97 |
| | 03/27/2009 | 653.65 | 9.63 | 644.02 | - | - | 644.02 |
| | 04/29/2009 | 653.65 | 9.92 | 643.73 | 9.91 | 0.01 | 643.74 |
| | 05/20/2009 | 653.65 | 10.04 | 643.61 | - | - | 643.61 |
| | 06/25/2009 | 653.65 | 9.74 | 643.91 | - | - | 643.91 |
| | 07/21/2009 | 653.65 | 10.67 | 642.98 | - | - | 642.98 |
| | 08/25/2009 | 653.65 | 11.24 | 642.41 | - | - | 642.41 |
| | 09/16/2009 | 653.65 | 11.84 | 641.81 | - | - | 641.81 |
| | 10/14/2009 | 653.65 | 12.52 | 641.13 | - | - | 641.13 |
| | 11/10/2009 | 653.65 | 12.97 | 640.68 | - | - | 640.68 |
| | 12/14/2009 | 653.65 | 13.38 | 640.27 | - | - | 640.27 |
| | 01/11/2010 | 653.65 | 13.56 | 640.09 | - | - | 640.09 |
| | 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 |

**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 | 653.65 | 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 |
| | 01/13/2010 | 653.65 | 12.81 | 640.84 | - | - | 640.84 |
| 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 |
| | 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 |

**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 | 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 |
| | 01/13/2010 | 654.27 | 12.43 | 641.84 | - | - | 641.84 |
| 6-4M | 04/04/2005 | 654.64 | 13.44 | 641.20 | - | - | 641.20 |
| | 05/16/2005 | 654.64 | 13.76 | 640.88 | - | - | 640.88 |
| | 06/13/2005 | 654.64 | 14.12 | 640.52 | - | - | 640.52 |
| | 07/11/2005 | 654.64 | 12.47 | 642.17 | - | - | 642.17 |
| | 08/22/2005 | 654.64 | 15.01 | 639.63 | - | - | 639.63 |
| | 10/17/2005 | 654.64 | 13.01 | 641.63 | - | - | 641.63 |
| | 01/09/2006 | 654.64 | 12.14 | 642.50 | - | - | 642.50 |
| | 04/03/2006 | 654.64 | 11.20 | 643.44 | - | - | 643.44 |
| | 05/31/2006 | 654.64 | 12.18 | 642.46 | - | - | 642.46 |
| | 06/12/2006 | 654.64 | 12.49 | 642.15 | - | - | 642.15 |
| | 08/02/2006 | 654.64 | 14.03 | 640.61 | - | - | 640.61 |
| | 09/06/2006 | 654.64 | 13.94 | 640.70 | - | - | 640.70 |
| | 11/01/2006 | 654.64 | 14.58 | 640.06 | - | - | 640.06 |
| | 01/09/2007 | 654.64 | 12.70 | 641.94 | - | - | 641.94 |
| | 05/07/2007 | 654.64 | 11.10 | 643.54 | - | - | 643.54 |
| | 07/24/2007 | 654.64 | 13.38 | 641.26 | - | - | 641.26 |
| | 10/16/2007 | 654.64 | 15.11 | 639.53 | - | - | 639.53 |
| | 01/11/2008 | 654.64 | 13.61 | 641.03 | - | - | 641.03 |
| | 07/07/2008 | 654.64 | 13.45 | 641.19 | - | - | 641.19 |
| 6-5M | 04/04/2005 | 655.33 | 13.29 | 642.04 | - | - | 642.04 |
| | 05/16/2005 | 655.33 | 13.61 | 641.72 | - | - | 641.72 |
| | 06/13/2005 | 655.33 | 13.99 | 641.34 | - | - | 641.34 |
| | 07/11/2005 | 655.33 | 14.32 | 641.01 | - | - | 641.01 |
| | 08/22/2005 | 655.33 | 14.90 | 640.43 | - | - | 640.43 |
| | 10/17/2005 | 655.33 | 12.40 | 642.93 | - | - | 642.93 |
| | 01/09/2006 | 655.33 | 11.67 | 643.66 | - | - | 643.66 |
| | 04/03/2006 | 655.33 | 10.33 | 645.00 | - | - | 645.00 |
| | 05/31/2006 | 655.33 | 11.73 | 643.60 | - | - | 643.60 |
| | 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 |

**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 | 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 |
| | 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 |
| | 01/13/2010 | 655.59 | 13.61 | 641.98 | - | - | 641.98 |
| 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 |

**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 | 656.54 | 11.27 | 645.27 | - | - | 645.27 |
| | 05/31/2006 | 656.54 | 12.48 | 644.06 | - | - | 644.06 |
| | 06/12/2006 | 656.54 | 12.94 | 643.60 | - | - | 643.60 |
| | 08/02/2006 | 656.54 | 14.71 | 641.83 | - | - | 641.83 |
| | 09/06/2006 | 656.54 | 14.30 | 642.24 | - | - | 642.24 |
| | 11/01/2006 | 656.54 | 14.92 | 641.62 | - | - | 641.62 |
| | 01/09/2007 | 656.54 | 13.25 | 643.29 | - | - | 643.29 |
| | 05/07/2007 | 656.54 | 11.22 | 645.32 | - | - | 645.32 |
| | 07/24/2007 | 656.54 | 13.99 | 642.55 | - | - | 642.55 |
| | 10/16/2007 | 656.54 | 15.66 | 640.88 | - | - | 640.88 |
| | 01/11/2008 | 656.54 | 14.09 | 642.45 | - | - | 642.45 |
| | 07/07/2008 | 656.54 | 15.00 | 641.54 | - | - | 641.54 |
| 6-8M | 04/04/2005 | 656.44 | 14.68 | 641.76 | 14.45 | 0.23 | 641.93 |
| | 05/16/2005 | 656.44 | 14.63 | 641.81 | - | - | 641.81 |
| | 06/13/2005 | 656.44 | 14.95 | 641.49 | 14.94 | 0.01 | 641.50 |
| | 07/11/2005 | 656.44 | 15.54 | 640.90 | 15.27 | 0.27 | 641.11 |
| | 08/22/2005 | 656.44 | 16.15 | 640.29 | 15.87 | 0.28 | 640.50 |
| | 10/17/2005 | 656.44 | 13.83 | 642.61 | - | - | 642.61 |
| | 01/09/2006 | 656.44 | 13.00 | 643.44 | 12.98 | 0.02 | 643.46 |
| | 04/03/2006 | 656.44 | 12.68 | 643.76 | - | - | 643.76 |
| | 05/31/2006 | 656.44 | 13.04 | 643.40 | - | - | 643.40 |
| | 06/12/2006 | 656.44 | 13.38 | 643.06 | - | - | 643.06 |
| | 08/02/2006 | 656.44 | 14.77 | 641.67 | - | - | 641.67 |
| | 09/06/2006 | 656.44 | 14.72 | 641.72 | - | - | 641.72 |
| | 11/01/2006 | 656.44 | 15.31 | 641.13 | - | - | 641.13 |
| | 01/09/2007 | 656.44 | 13.64 | 642.80 | - | - | 642.80 |
| | 05/07/2007 | 656.44 | 12.04 | 644.40 | - | - | 644.40 |
| | 07/24/2007 | 656.44 | 14.30 | 642.14 | - | - | 642.14 |
| | 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 |

**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 | 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 |
| | 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 |
| | 01/13/2010 | 657.60 | 14.21 | 643.39 | - | - | 643.39 |

**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) |
|---|---|---|---|---|---|---|---|
| 6-11M | 04/04/2005 | 658.42 | 14.67 | 643.75 | - | - | 643.75 |
| | 05/16/2005 | 658.42 | 14.65 | 643.77 | - | - | 643.77 |
| | 06/13/2005 | 658.42 | 14.99 | 643.43 | - | - | 643.43 |
| | 07/11/2005 | 658.42 | 15.34 | 643.08 | - | - | 643.08 |
| | 08/22/2005 | 658.42 | 15.85 | 642.57 | - | - | 642.57 |
| | 10/17/2005 | 658.42 | 14.11 | 644.31 | - | - | 644.31 |
| | 01/09/2006 | 658.42 | 13.10 | 645.32 | - | - | 645.32 |
| | 04/03/2006 | 658.42 | 12.18 | 646.24 | - | - | 646.24 |
| | 05/31/2006 | 658.42 | 13.10 | 645.32 | - | - | 645.32 |
| | 06/12/2006 | 658.42 | 13.41 | 645.01 | - | - | 645.01 |
| | 08/02/2006 | 658.42 | 14.05 | 644.37 | - | - | 644.37 |
| | 09/06/2006 | 658.42 | 14.66 | 643.76 | - | - | 643.76 |
| | 11/01/2006 | 658.42 | 14.71 | 643.71 | - | - | 643.71 |
| | 01/09/2007 | 658.42 | 13.23 | 645.19 | - | - | 645.19 |
| | 05/07/2007 | 658.42 | 11.92 | 646.50 | - | - | 646.50 |
| | 07/24/2007 | 658.42 | 13.97 | 644.45 | - | - | 644.45 |
| | 10/16/2007 | 658.42 | 15.95 | 642.47 | - | - | 642.47 |
| | 01/11/2008 | 658.42 | 14.55 | 643.87 | - | - | 643.87 |
| | 07/07/2008 | 658.42 | 14.95 | 643.47 | - | - | 643.47 |
| 6-12M | 04/04/2005 | 658.49 | 15.37 | 643.12 | - | - | 643.12 |
| | 05/16/2005 | 658.49 | 15.18 | 643.31 | - | - | 643.31 |
| | 06/13/2005 | 658.49 | 15.55 | 642.94 | - | - | 642.94 |
| | 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 |

**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 | 654.41 | NR | - | NR | - | - |
| | 08/02/2006 | 654.41 | 12.05 | 642.36 | - | - | 642.36 |
| | 09/06/2006 | 654.41 | 12.66 | 641.75 | - | - | 641.75 |
| | 11/01/2006 | 654.41 | 12.66 | 641.75 | - | - | 641.75 |
| | 01/09/2007 | 654.41 | 11.01 | 643.40 | - | - | 643.40 |
| | 05/07/2007 | 654.41 | 9.54 | 644.87 | - | - | 644.87 |
| | 07/24/2007 | 654.41 | 11.77 | 642.64 | - | - | 642.64 |
| | 10/16/2007 | 654.41 | 13.83 | 640.58 | - | - | 640.58 |
| | 01/11/2008 | 654.41 | 12.13 | 642.28 | - | - | 642.28 |
| | 07/07/2008 | 654.41 | 11.80 | 642.61 | - | - | 642.61 |
| 7-2M | 04/04/2005 | 654.72 | 11.45 | 643.27 | - | - | 643.27 |
| | 05/16/2005 | 654.72 | 11.65 | 643.07 | - | - | 643.07 |
| | 06/13/2005 | 654.72 | 12.76 | 641.96 | - | - | 641.96 |
| | 07/11/2005 | 654.72 | 12.58 | 642.14 | 12.45 | 0.13 | 642.24 |
| | 08/22/2005 | 654.72 | 13.12 | 641.60 | 12.89 | 0.23 | 641.77 |
| | 10/17/2005 | 654.72 | 10.76 | 643.96 | - | - | 643.96 |
| | 01/09/2006 | 654.72 | 10.10 | 644.62 | - | - | 644.62 |
| | 04/03/2006 | 654.72 | 9.02 | 645.70 | - | - | 645.70 |
| | 05/31/2006 | 654.72 | 10.02 | 644.70 | - | - | 644.70 |
| | 06/12/2006 | 654.72 | NR | - | NR | - | - |
| | 08/02/2006 | 654.72 | 11.12 | 643.60 | - | - | 643.60 |
| | 09/06/2006 | 654.72 | 11.95 | 642.77 | - | - | 642.77 |
| | 11/01/2006 | 654.72 | 11.68 | 643.04 | - | - | 643.04 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| 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 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 08/25/2009 | 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 |
| | 01/13/2010 | 656.26 | 12.73 | 643.53 | - | - | 643.53 |
| 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 10/14/2009 | 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 |
| | 01/13/2010 | 656.26 | 11.79 | 644.47 | - | - | 644.47 |
| 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 12/14/2009 | 656.94 | 17.06 | 639.88 | - | - | 639.88 |
| | 01/11/2010 | 656.94 | 12.64 | 644.30 | - | - | 644.30 |
| | 02/10/2010 | 656.94 | 13.43 | 643.51 | - | - | 643.51 |
| | 03/10/2010 | 656.94 | 14.01 | 642.93 | - | - | 642.93 |
| | 04/14/2010 | 656.94 | 13.71 | 643.23 | - | - | 643.23 |
| | 05/12/2010 | 656.94 | 13.56 | 643.38 | - | - | 643.38 |
| | 06/17/2010 | 656.94 | 13.58 | 643.36 | - | - | 643.36 |
| | 07/14/2010 | 656.94 | 13.45 | 643.49 | - | - | 643.49 |
| | 08/09/2010 | 656.94 | 14.46 | 642.48 | - | - | 642.48 |
| | 09/16/2010 | 656.94 | 14.37 | 642.57 | - | - | 642.57 |
| | 10/13/2010 | 656.94 | 12.82 | 644.12 | - | - | 644.12 |
| | 11/16/2010 | 656.94 | 13.21 | 643.73 | - | - | 643.73 |
| | 12/16/2010 | 656.94 | 12.49 | 644.45 | - | - | 644.45 |
| | 01/13/2010 | 656.94 | 12.68 | 644.26 | - | - | 644.26 |
| 7-8M | 04/04/2005 | 657.32 | 12.87 | 644.45 | 12.50 | 0.37 | 644.73 |
| | 05/16/2005 | 657.32 | 12.80 | 644.52 | - | - | 644.52 |
| | 06/13/2005 | 657.32 | 13.03 | 644.29 | - | - | 644.29 |
| | 07/11/2005 | 657.32 | 13.62 | 643.70 | 13.42 | 0.20 | 643.85 |
| | 08/22/2005 | 657.32 | 14.16 | 643.16 | 14.01 | 0.15 | 643.27 |
| | 10/17/2005 | 657.32 | 10.94 | 646.38 | - | - | 646.38 |
| | 01/09/2006 | 657.32 | 11.06 | 646.26 | - | - | 646.26 |
| | 04/03/2006 | 657.32 | 9.78 | 647.54 | - | - | 647.54 |
| | 05/31/2006 | 657.32 | 10.97 | 646.35 | - | - | 646.35 |
| | 06/12/2006 | 657.32 | NR | - | NR | - | - |
| | 08/02/2006 | 657.32 | 11.83 | 645.49 | - | - | 645.49 |
| | 09/06/2006 | 657.32 | 12.59 | 644.73 | - | - | 644.73 |
| | 11/01/2006 | 657.32 | 12.09 | 645.23 | - | - | 645.23 |
| | 01/09/2007 | 657.32 | 10.73 | 646.59 | - | - | 646.59 |
| | 05/07/2007 | 657.32 | 9.32 | 648.00 | - | - | 648.00 |
| | 07/24/2007 | 657.32 | 12.24 | 645.08 | - | - | 645.08 |
| | 10/16/2007 | 657.32 | 13.97 | 643.35 | - | - | 643.35 |
| | 01/11/2008 | 657.32 | 11.72 | 645.60 | - | - | 645.60 |
| | 07/07/2008 | 657.32 | 14.05 | 643.27 | - | - | 643.27 |
| | 09/18/2008 | 657.32 | 13.55 | 643.77 | - | - | 643.77 |
| | 10/23/2008 | 657.32 | 11.32 | 646.00 | - | - | 646.00 |
| | 12/31/2008 | 657.32 | 7.84 | 649.48 | - | - | 649.48 |
| | 01/28/2009 | 657.32 | 9.20 | 648.12 | - | - | 648.12 |
| | 02/25/2009 | 657.32 | 8.63 | 648.69 | - | - | 648.69 |
| | 03/27/2009 | 657.32 | 7.24 | 650.08 | - | - | 650.08 |
| | 04/29/2009 | 657.32 | 8.81 | 648.51 | - | - | 648.51 |
| | 05/20/2009 | 657.32 | 8.84 | 648.48 | - | - | 648.48 |
| | 06/25/2009 | 657.32 | 8.62 | 648.70 | - | - | 648.70 |
| | 07/21/2009 | 657.32 | 9.47 | 647.85 | - | - | 647.85 |
| | 08/25/2009 | 657.32 | 10.08 | 647.24 | - | - | 647.24 |
| | 09/16/2009 | 657.32 | 11.02 | 646.30 | - | - | 646.30 |
| | 10/14/2009 | 657.32 | 11.56 | 645.76 | - | - | 645.76 |
| | 11/10/2009 | 657.32 | 13.61 | 643.71 | - | - | 643.71 |
| | 12/14/2009 | 657.32 | 12.42 | 644.90 | - | - | 644.90 |
| | 01/11/2010 | 657.32 | 11.98 | 645.34 | - | - | 645.34 |

**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) |
|---|---|---|---|---|---|---|---|
| | 02/10/2010 | 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 |
| | 01/13/2010 | 657.32 | 12.25 | 645.07 | - | - | 645.07 |
| 7-9M | 04/04/2005 | 657.97 | 13.50 | 644.47 | - | - | 644.47 |
| | 05/16/2005 | 657.97 | 13.64 | 644.33 | 13.60 | 0.04 | 644.36 |
| | 06/13/2005 | 657.97 | 13.93 | 644.04 | - | - | 644.04 |
| | 07/11/2005 | 657.97 | 14.39 | 643.58 | 14.28 | 0.11 | 643.66 |
| | 08/22/2005 | 657.97 | 14.86 | 643.11 | 14.78 | 0.08 | 643.17 |
| | 10/17/2005 | 657.97 | 12.38 | 645.59 | - | - | 645.59 |
| | 01/09/2006 | 657.97 | 12.01 | 645.96 | - | - | 645.96 |
| | 04/03/2006 | 657.97 | 10.99 | 646.98 | - | - | 646.98 |
| | 05/31/2006 | 657.97 | 11.96 | 646.01 | - | - | 646.01 |
| | 06/12/2006 | 657.97 | NR | - | NR | - | - |
| | 08/02/2006 | 657.97 | 12.79 | 645.18 | - | - | 645.18 |
| | 09/06/2006 | 657.97 | 13.52 | 644.45 | - | - | 644.45 |
| | 11/01/2006 | 657.97 | 13.14 | 644.83 | - | - | 644.83 |
| | 01/09/2007 | 657.97 | 11.90 | 646.07 | - | - | 646.07 |
| | 05/07/2007 | 657.97 | 10.64 | 647.33 | - | - | 647.33 |
| | 07/24/2007 | 657.97 | 12.92 | 645.05 | - | - | 645.05 |
| | 10/16/2007 | 657.97 | 14.86 | 643.11 | - | - | 643.11 |
| | 01/11/2008 | 657.97 | 12.91 | 645.06 | - | - | 645.06 |
| | 07/07/2008 | 657.97 | 14.45 | 643.52 | - | - | 643.52 |
| 7-10M | 04/04/2005 | 659.20 | 11.49 | 647.71 | - | - | 647.71 |
| | 05/16/2005 | 659.20 | 12.65 | 646.55 | - | - | 646.55 |
| | 06/13/2005 | 659.20 | 13.14 | 646.06 | - | - | 646.06 |
| | 07/11/2005 | 659.20 | 13.21 | 645.99 | - | - | 645.99 |
| | 08/22/2005 | 659.20 | 14.90 | 644.30 | - | - | 644.30 |
| | 10/17/2005 | 659.20 | 10.95 | 648.25 | - | - | 648.25 |
| | 01/09/2006 | 659.20 | 11.79 | 647.41 | - | - | 647.41 |
| | 04/03/2006 | 659.20 | 11.12 | 648.08 | - | - | 648.08 |
| | 05/31/2006 | 659.20 | 11.99 | 647.21 | - | - | 647.21 |
| | 06/12/2006 | 659.20 | NR | - | NR | - | - |
| | 08/02/2006 | 659.20 | 12.69 | 646.51 | - | - | 646.51 |
| | 09/06/2006 | 659.20 | 13.32 | 645.88 | - | - | 645.88 |
| | 11/01/2006 | 659.20 | 11.54 | 647.66 | - | - | 647.66 |
| | 01/09/2007 | 659.20 | 11.62 | 647.58 | - | - | 647.58 |
| | 05/07/2007 | 659.20 | 10.65 | 648.55 | - | - | 648.55 |
| | 07/24/2007 | 659.20 | 12.56 | 646.64 | - | - | 646.64 |
| | 10/16/2007 | 659.20 | 15.03 | 644.17 | - | - | 644.17 |

**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 | 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 |
| | 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 |
| | 01/13/2010 | 660.48 | 15.31 | 645.17 | - | - | 645.17 |

**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) |
|---|---|---|---|---|---|---|---|
| 7-12M | 04/04/2005 | 660.77 | 15.13 | 645.64 | - | - | 645.64 |
| | 05/16/2005 | 660.77 | 15.20 | 645.57 | - | - | 645.57 |
| | 06/13/2005 | 660.77 | 15.51 | 645.26 | - | - | 645.26 |
| | 07/11/2005 | 660.77 | 15.77 | 645.00 | - | - | 645.00 |
| | 08/22/2005 | 660.77 | 16.40 | 644.37 | - | - | 644.37 |
| | 10/17/2005 | 660.77 | 14.30 | 646.47 | - | - | 646.47 |
| | 01/09/2006 | 660.77 | 13.66 | 647.11 | - | - | 647.11 |
| | 04/03/2006 | 660.77 | 12.60 | 648.17 | - | - | 648.17 |
| | 05/31/2006 | 660.77 | 13.58 | 647.19 | - | - | 647.19 |
| | 06/12/2006 | 660.77 | NR | - | NR | - | - |
| | 08/02/2006 | 660.77 | 14.26 | 646.51 | - | - | 646.51 |
| | 09/06/2006 | 660.77 | 15.12 | 645.65 | - | - | 645.65 |
| | 11/01/2006 | 660.77 | 14.81 | 645.96 | - | - | 645.96 |
| | 01/09/2007 | 660.77 | 13.60 | 647.17 | - | - | 647.17 |
| | 05/07/2007 | 660.77 | 12.31 | 648.46 | - | - | 648.46 |
| | 07/24/2007 | 660.77 | 14.54 | 646.23 | - | - | 646.23 |
| | 10/16/2007 | 660.77 | 16.37 | 644.40 | - | - | 644.40 |
| | 01/11/2008 | 660.77 | 14.88 | 645.89 | - | - | 645.89 |
| | 07/07/2008 | 660.77 | 15.10 | 645.67 | - | - | 645.67 |
| 8-1M | 04/04/2005 | 654.86 | 10.53 | 644.33 | - | - | 644.33 |
| | 05/16/2005 | 654.86 | 10.79 | 644.07 | - | - | 644.07 |
| | 06/13/2005 | 654.86 | 11.13 | 643.73 | - | - | 643.73 |
| | 07/11/2005 | 654.86 | 11.55 | 643.31 | - | - | 643.31 |
| | 08/22/2005 | 654.86 | 12.02 | 642.84 | - | - | 642.84 |
| | 10/17/2005 | 654.86 | 9.68 | 645.18 | - | - | 645.18 |
| | 01/09/2006 | 654.86 | 9.13 | 645.73 | - | - | 645.73 |
| | 04/03/2006 | 654.86 | 8.07 | 646.79 | - | - | 646.79 |
| | 05/31/2006 | 654.86 | 9.07 | 645.79 | - | - | 645.79 |
| | 06/12/2006 | 654.86 | NR | - | NR | - | - |
| | 08/02/2006 | 654.86 | NR | - | NR | - | - |
| | 09/06/2006 | 654.86 | 10.92 | 643.94 | - | - | 643.94 |
| | 11/01/2006 | 654.86 | 10.39 | 644.47 | - | - | 644.47 |
| | 01/09/2007 | 654.86 | 9.10 | 645.76 | - | - | 645.76 |
| | 05/07/2007 | 654.86 | 7.76 | 647.10 | - | - | 647.10 |
| | 07/24/2007 | 654.86 | 10.06 | 644.80 | - | - | 644.80 |
| | 10/16/2007 | 654.86 | 12.10 | 642.76 | - | - | 642.76 |
| | 01/11/2008 | 654.86 | 10.19 | 644.67 | - | - | 644.67 |
| | 07/07/2008 | 654.86 | 9.60 | 645.26 | - | - | 645.26 |
| | 09/18/2008 | 654.86 | 9.50 | 645.36 | - | - | 645.36 |
| | 10/23/2008 | 654.86 | 8.35 | 646.51 | - | - | 646.51 |
| | 12/31/2008 | 654.86 | 6.12 | 648.74 | - | - | 648.74 |
| | 01/28/2009 | 654.86 | 9.35 | 645.51 | - | - | 645.51 |
| | 02/25/2009 | 654.86 | 7.23 | 647.63 | - | - | 647.63 |
| | 03/27/2009 | 654.86 | 7.56 | 647.30 | - | - | 647.30 |
| | 04/29/2009 | 654.86 | 7.25 | 647.61 | - | - | 647.61 |
| | 05/20/2009 | 654.86 | 7.21 | 647.65 | - | - | 647.65 |
| | 06/25/2009 | 654.86 | 7.11 | 647.75 | - | - | 647.75 |
| | 07/21/2009 | 654.86 | 7.92 | 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) |
|---|---|---|---|---|---|---|---|
| | 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 |
| | 01/13/2010 | 654.86 | 10.89 | 643.97 | - | - | 643.97 |
| 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 10/14/2009 | 655.33 | 10.01 | 645.32 | 9.91 | 0.10 | 645.42 |
| | 11/10/2009 | 655.33 | 10.52 | 644.81 | - | - | 644.81 |
| | 12/14/2009 | 655.33 | 10.68 | 644.65 | - | - | 644.65 |
| | 01/11/2010 | 655.33 | 10.74 | 644.59 | - | - | 644.59 |
| | 02/10/2010 | 655.33 | 11.08 | 644.25 | - | - | 644.25 |
| | 03/10/2010 | 655.33 | 11.64 | 643.69 | - | - | 643.69 |
| | 04/14/2010 | 655.33 | 10.94 | 644.39 | - | - | 644.39 |
| | 05/12/2010 | 655.33 | 11.59 | 643.74 | - | - | 643.74 |
| | 06/17/2010 | 655.33 | 12.01 | 643.32 | - | - | 643.32 |
| | 07/14/2010 | 655.33 | 17.68 | 637.65 | - | - | 637.65 |
| | 08/09/2010 | 655.33 | 12.17 | 643.16 | - | - | 643.16 |
| | 09/16/2010 | 655.33 | 13.25 | 642.08 | - | - | 642.08 |
| | 10/13/2010 | 655.33 | 10.61 | 644.72 | - | - | 644.72 |
| | 11/16/2010 | 655.33 | 11.03 | 644.30 | - | - | 644.30 |
| | 12/16/2010 | 655.33 | 10.17 | 645.16 | - | - | 645.16 |
| | 01/13/2010 | 655.33 | 10.;69 | #VALUE! | - | - | #VALUE! |
| 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 |
| | 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 |

**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 | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 12/14/2009 | 659.46 | 12.58 | 646.88 | - | - | 646.88 |
| | 01/11/2010 | 659.46 | 12.76 | 646.70 | - | - | 646.70 |
| | 02/10/2010 | 659.46 | 14.68 | 644.78 | - | - | 644.78 |
| | 03/10/2010 | 659.46 | 13.98 | 645.48 | - | - | 645.48 |
| | 04/14/2010 | 659.46 | 12.99 | 646.47 | - | - | 646.47 |
| | 05/12/2010 | 659.46 | 14.63 | 644.83 | - | - | 644.83 |
| | 06/17/2010 | 659.46 | 14.42 | 645.04 | - | - | 645.04 |
| | 07/14/2010 | 659.46 | 15.03 | 644.43 | - | - | 644.43 |
| | 08/09/2010 | 659.46 | 14.79 | 644.67 | - | - | 644.67 |
| | 09/16/2010 | 659.46 | 14.78 | 644.68 | - | - | 644.68 |
| | 10/13/2010 | 659.46 | 13.19 | 646.27 | - | - | 646.27 |
| | 11/16/2010 | 659.46 | 11.96 | 647.50 | - | - | 647.50 |
| | 12/16/2010 | 659.46 | 12.74 | 646.72 | - | - | 646.72 |
| | 01/13/2010 | 659.46 | 13.15 | 646.31 | - | - | 646.31 |
| 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 |
| | 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 |

**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 | 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 |
| | 01/13/2010 | 655.60 | 9.62 | 645.98 | - | - | 645.98 |
| 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 |

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

**Areas 3805 and 1995**
**Fort Drum**

| Monitoring Well | Date | Top of Casing (ft) | Depth to Water (ft) | GW Elevation (ft) | Depth to Product (ft) | Product Thickness (ft) | Prod Adj GW Elevation (ft) |
|---|---|---|---|---|---|---|---|
| | 01/11/2008 | 656.50 | 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 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 08/25/2009 | 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 | - | - |
| | 01/13/2010 | 657.78 | NR | - | NR | - | - |
| 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 |

**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 | 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 |
| 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 |

**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 | 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 |
| | 01/13/2010 | 662.91 | 16.08 | 646.83 | - | - | 646.83 |
| 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 |

**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 | 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 | - | - |
| | 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 |

**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 | 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 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 10/14/2009 | 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 |
| | 01/13/2010 | 661.87 | 19.64 | 642.23 | - | - | 642.23 |
| 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 |

**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 | 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 |
| | 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 |
| | 01/13/2010 | 662.17 | 18.54 | 643.63 | - | - | 643.63 |
| 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 |

**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 | 663.37 | 20.52 | 642.85 | - | - | 642.85 |
| | 10/16/2007 | 663.37 | 22.14 | 641.23 | - | - | 641.23 |
| | 01/11/2008 | 663.37 | 21.41 | 641.96 | - | - | 641.96 |
| | 06/30/2008 | 663.37 | 19.85 | 643.52 | - | - | 643.52 |
| 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 |

**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 | 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 |
| | 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 |
| | 01/13/2010 | 664.81 | 18.96 | 645.85 | - | - | 645.85 |
| 12-9M | 04/04/2005 | 665.19 | 20.73 | 644.46 | - | - | 644.46 |
| | 05/16/2005 | 665.19 | 20.44 | 644.75 | - | - | 644.75 |
| | 06/13/2005 | 665.19 | 20.73 | 644.46 | - | - | 644.46 |
| | 07/11/2005 | 665.19 | 21.06 | 644.13 | - | - | 644.13 |
| | 08/22/2005 | 665.19 | 21.43 | 643.76 | - | - | 643.76 |
| | 10/17/2005 | 665.19 | 20.44 | 644.75 | - | - | 644.75 |
| | 01/09/2006 | 665.19 | 19.11 | 646.08 | - | - | 646.08 |

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

**Areas 3805 and 1995**
**Fort Drum**

| 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 | 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 |
| | 01/13/2010 | 665.19 | 18.68 | 646.51 | - | - | 646.51 |
| 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 |

**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 | 666.41 | NR | - | NR | - | - |
| | 08/02/2006 | 666.41 | 20.01 | 646.40 | - | - | 646.40 |
| | 09/06/2006 | 666.41 | 20.57 | 645.84 | - | - | 645.84 |
| | 11/01/2006 | 666.41 | 20.71 | 645.70 | - | - | 645.70 |
| | 01/09/2007 | 666.41 | 19.39 | 647.02 | - | - | 647.02 |
| | 05/07/2007 | 666.41 | 18.13 | 648.28 | - | - | 648.28 |
| | 07/24/2007 | 666.41 | 19.88 | 646.53 | - | - | 646.53 |
| | 10/16/2007 | 666.41 | 21.32 | 645.09 | - | - | 645.09 |
| | 01/11/2008 | 666.41 | 20.83 | 645.58 | - | - | 645.58 |
| | 06/30/2008 | 666.41 | 19.40 | 647.01 | - | - | 647.01 |
| | 09/18/2008 | 666.41 | 20.10 | 646.31 | - | - | 646.31 |
| | 10/23/2008 | 666.41 | 20.50 | 645.91 | - | - | 645.91 |
| | 12/31/2008 | 666.41 | 17.50 | 648.91 | - | - | 648.91 |
| | 01/28/2009 | 666.41 | 17.25 | 649.16 | - | - | 649.16 |
| | 02/25/2009 | 666.41 | 17.46 | 648.95 | - | - | 648.95 |
| | 03/27/2009 | 666.41 | 17.57 | 648.84 | - | - | 648.84 |
| | 04/29/2009 | 666.41 | 17.89 | 648.52 | - | - | 648.52 |
| | 05/20/2009 | 666.41 | 17.97 | 648.44 | - | - | 648.44 |
| | 06/25/2009 | 666.41 | 17.17 | 649.24 | - | - | 649.24 |
| | 07/21/2009 | 666.41 | 18.03 | 648.38 | - | - | 648.38 |
| | 08/25/2009 | 666.41 | 18.62 | 647.79 | - | - | 647.79 |
| | 09/16/2009 | 666.41 | 14.01 | 652.40 | - | - | 652.40 |
| | 10/14/2009 | 666.41 | 19.61 | 646.80 | - | - | 646.80 |
| | 11/10/2009 | 666.41 | 19.92 | 646.49 | - | - | 646.49 |
| | 12/14/2009 | 666.41 | 20.36 | 646.05 | - | - | 646.05 |
| | 01/11/2010 | 666.41 | 20.31 | 646.10 | - | - | 646.10 |
| | 02/10/2010 | 666.41 | 20.19 | 646.22 | - | - | 646.22 |
| | 03/10/2010 | 666.41 | 20.78 | 645.63 | - | - | 645.63 |
| | 04/14/2010 | 666.41 | 20.66 | 645.75 | - | - | 645.75 |
| | 05/12/2010 | 666.41 | 20.98 | 645.43 | - | - | 645.43 |
| | 06/17/2010 | 666.41 | 21.42 | 644.99 | - | - | 644.99 |
| | 07/14/2010 | 666.41 | 21.78 | 644.63 | - | - | 644.63 |
| | 08/09/2010 | 666.41 | 21.51 | 644.90 | - | - | 644.90 |
| | 09/16/2010 | 666.41 | 21.52 | 644.89 | - | - | 644.89 |
| | 10/13/2010 | 666.41 | 20.04 | 646.37 | - | - | 646.37 |
| | 11/16/2010 | 666.41 | 20.09 | 646.32 | - | - | 646.32 |
| | 12/16/2010 | 666.41 | 19.69 | 646.72 | - | - | 646.72 |
| | 01/13/2010 | 666.41 | 19.75 | 646.66 | - | - | 646.66 |
| 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 |

**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 | 667.26 | 21.66 | 645.60 | - | - | 645.60 |
| | 11/01/2006 | 667.26 | 20.75 | 646.51 | - | - | 646.51 |
| | 01/09/2007 | 667.26 | 20.40 | 646.86 | - | - | 646.86 |
| | 05/07/2007 | 667.26 | 19.10 | 648.16 | - | - | 648.16 |
| | 07/24/2007 | 667.26 | 20.97 | 646.29 | - | - | 646.29 |
| | 10/16/2007 | 667.26 | 22.35 | 644.91 | - | - | 644.91 |
| | 01/11/2008 | 667.26 | 22.02 | 645.24 | - | - | 645.24 |
| | 06/30/2008 | 667.26 | 20.40 | 646.86 | - | - | 646.86 |
| | 09/18/2008 | 667.26 | 20.93 | 646.33 | - | - | 646.33 |
| | 10/23/2008 | 667.26 | 21.20 | 646.06 | - | - | 646.06 |
| | 12/31/2008 | 667.26 | 18.60 | 648.66 | - | - | 648.66 |
| | 01/28/2009 | 667.26 | 18.20 | 649.06 | - | - | 649.06 |
| | 02/25/2009 | 667.26 | 18.43 | 648.83 | - | - | 648.83 |
| | 03/27/2009 | 667.26 | 18.50 | 648.76 | - | - | 648.76 |
| | 04/29/2009 | 667.26 | 18.61 | 648.65 | - | - | 648.65 |
| | 05/20/2009 | 667.26 | 18.64 | 648.62 | - | - | 648.62 |
| | 06/25/2009 | 667.26 | 18.13 | 649.13 | - | - | 649.13 |
| | 07/21/2009 | 667.26 | 18.71 | 648.55 | - | - | 648.55 |
| | 08/25/2009 | 667.26 | 19.32 | 647.94 | - | - | 647.94 |
| | 09/16/2009 | 667.26 | 13.80 | 653.46 | - | - | 653.46 |
| | 10/14/2009 | 667.26 | 20.26 | 647.00 | - | - | 647.00 |
| | 11/10/2009 | 667.26 | 20.59 | 646.67 | - | - | 646.67 |
| | 12/14/2009 | 667.26 | 20.98 | 646.28 | - | - | 646.28 |
| | 01/11/2010 | 667.26 | 21.16 | 646.10 | - | - | 646.10 |
| | 02/10/2010 | 667.26 | 21.03 | 646.23 | - | - | 646.23 |
| | 03/10/2010 | 667.26 | 21.59 | 645.67 | - | - | 645.67 |
| | 04/14/2010 | 667.26 | 21.43 | 645.83 | - | - | 645.83 |
| | 05/12/2010 | 667.26 | 21.79 | 645.47 | - | - | 645.47 |
| | 06/17/2010 | 667.26 | 22.19 | 645.07 | - | - | 645.07 |
| | 07/14/2010 | 667.26 | 21.47 | 645.79 | - | - | 645.79 |
| | 08/09/2010 | 667.26 | 22.26 | 645.00 | - | - | 645.00 |
| | 09/16/2010 | 667.26 | 22.41 | 644.85 | - | - | 644.85 |
| | 10/13/2010 | 667.26 | 20.93 | 646.33 | - | - | 646.33 |
| | 11/16/2010 | 667.26 | 22.06 | 645.20 | - | - | 645.20 |
| | 12/16/2010 | 667.26 | 20.56 | 646.70 | - | - | 646.70 |
| | 01/13/2010 | 667.26 | 20.51 | 646.75 | - | - | 646.75 |
| 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 |

**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 | 666.21 | 17.70 | 648.51 | - | - | 648.51 |
| | 05/07/2007 | 666.21 | 16.59 | 649.62 | - | - | 649.62 |
| | 07/24/2007 | 666.21 | 17.92 | 648.29 | - | - | 648.29 |
| | 10/16/2007 | 666.21 | 19.65 | 646.56 | - | - | 646.56 |
| | 01/11/2008 | 666.21 | 19.26 | 646.95 | - | - | 646.95 |
| | 06/30/2008 | 666.21 | 18.85 | 647.36 | - | - | 647.36 |
| 13-2S | 04/04/2005 | 667.62 | 20.54 | 647.08 | - | - | 647.08 |
| | 05/16/2005 | 667.62 | 20.38 | 647.24 | - | - | 647.24 |
| | 06/13/2005 | 667.62 | 20.70 | 646.92 | - | - | 646.92 |
| | 07/11/2005 | 667.62 | 20.99 | 646.63 | - | - | 646.63 |
| | 08/22/2005 | 667.62 | 21.36 | 646.26 | - | - | 646.26 |
| | 10/17/2005 | 667.62 | 20.05 | 647.57 | - | - | 647.57 |
| | 01/09/2006 | 667.62 | 19.05 | 648.57 | - | - | 648.57 |
| | 04/03/2006 | 667.62 | 17.97 | 649.65 | - | - | 649.65 |
| | 05/31/2006 | 667.62 | 18.92 | 648.70 | - | - | 648.70 |
| | 06/12/2006 | 667.62 | NR | - | NR | - | - |
| | 08/02/2006 | 667.62 | 19.66 | 647.96 | - | - | 647.96 |
| | 09/06/2006 | 667.62 | 20.32 | 647.30 | - | - | 647.30 |
| | 11/01/2006 | 667.62 | 20.37 | 647.25 | - | - | 647.25 |
| | 01/09/2007 | 667.62 | 19.20 | 648.42 | - | - | 648.42 |
| | 05/07/2007 | 667.62 | 17.96 | 649.66 | - | - | 649.66 |
| | 07/24/2007 | 667.62 | 19.43 | 648.19 | - | - | 648.19 |
| | 10/16/2007 | 667.62 | 21.10 | 646.52 | - | - | 646.52 |
| | 01/11/2008 | 667.62 | 20.71 | 646.91 | - | - | 646.91 |
| | 06/30/2008 | 667.62 | 19.25 | 648.37 | - | - | 648.37 |
| 13-3S | 04/04/2005 | 667.41 | 20.45 | 646.96 | - | - | 646.96 |
| | 05/16/2005 | 667.41 | 20.25 | 647.16 | - | - | 647.16 |
| | 06/13/2005 | 667.41 | 20.59 | 646.82 | - | - | 646.82 |
| | 07/11/2005 | 667.41 | 20.85 | 646.56 | - | - | 646.56 |
| | 08/22/2005 | 667.41 | 21.20 | 646.21 | - | - | 646.21 |
| | 10/17/2005 | 667.41 | 20.02 | 647.39 | - | - | 647.39 |
| | 01/09/2006 | 667.41 | 18.93 | 648.48 | - | - | 648.48 |
| | 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 |

**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 | 668.78 | 22.08 | 646.70 | - | - | 646.70 |
| | 08/22/2005 | 668.78 | 22.55 | 646.23 | - | - | 646.23 |
| | 10/17/2005 | 668.78 | 21.23 | 647.55 | - | - | 647.55 |
| | 01/09/2006 | 668.78 | 20.15 | 648.63 | - | - | 648.63 |
| | 04/03/2006 | 668.78 | 19.09 | 649.69 | - | - | 649.69 |
| | 05/31/2006 | 668.78 | 20.07 | 648.71 | - | - | 648.71 |
| | 06/12/2006 | 668.78 | NR | - | NR | - | - |
| | 08/02/2006 | 668.78 | 20.74 | 648.04 | - | - | 648.04 |
| | 09/06/2006 | 668.78 | 21.44 | 647.34 | - | - | 647.34 |
| | 11/01/2006 | 668.78 | 21.45 | 647.33 | - | - | 647.33 |
| | 01/09/2007 | 668.78 | 20.38 | 648.40 | - | - | 648.40 |
| | 05/07/2007 | 668.78 | 19.12 | 649.66 | - | - | 649.66 |
| | 07/24/2007 | 668.78 | 20.48 | 648.30 | - | - | 648.30 |
| | 10/16/2007 | 668.78 | 22.09 | 646.69 | - | - | 646.69 |
| | 01/11/2008 | 668.78 | 21.64 | 647.14 | - | - | 647.14 |
| | 06/30/2008 | 668.78 | 20.40 | 648.38 | - | - | 648.38 |

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

Table D-2
Site 3805A
November 2010 - January 2011 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 H2O) | Sparge Influent Pressure (psi) | Sparge Influent Temperature (F) | Sparge Effluent Pressure (psi) | Sparge Effluent Temperature (F) | Sparge Differential Pressure (in H2O) | Oil Water Separator Flow (gallons) | Air Flow (cfm) | System Effluent (ppm) | Total Mass Recovered (lbs) | Total Recovery Rate (lbs/hr) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/01/01 | NR | Off | NR | NR | NR | NR | NR | NR | 30.39 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 11/02/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.46 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 11/03/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.10 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 11/04/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.68 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 11/05/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.56 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 11/08/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.98 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 11/09/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.11 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 11/10/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.24 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 11/11/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.47 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 11/12/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.42 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 11/15/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.00 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 11/16/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.88 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 11/17/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.43 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 11/18/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.02 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 11/19/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.23 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 11/22/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.02 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 11/23/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.79 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 11/24/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.23 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 11/29/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.42 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 11/30/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.01 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 12/01/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.68 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 12/02/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.99 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 12/03/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.04 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 12/06/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.54 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 12/07/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.55 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 12/08/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.91 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 12/09/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.26 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 12/10/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.17 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 12/13/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.35 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 12/14/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.56 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 12/15/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.73 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 12/16/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.69 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 12/17/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.90 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 12/20/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.03 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 12/21/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.07 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 12/27/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.76 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 12/28/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.86 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 12/29/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.01 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 12/30/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.11 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 01/03/11 | NR | Off | NR | NR | NR | NR | NR | NR | 30.08 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 01/04/11 | 1204 | On | 6959.2 | 26.3 | NR | NR | 8.5 | 42 | 29.84 | 0.0 | 112 | 3.0 | NR | NR | NR | NR | NR | 1087339.6 | 583.1 | 22.7 | 2.089 | 0.079 | System started 1/3/11 at 7pm, SVE meter reset |
| 01/05/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.81 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 01/06/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.66 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 01/07/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.40 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 01/10/11 | NR | Off | NR | NR | NR | NR | NR | NR | 30.27 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 01/11/11 | NR | Off | NR | NR | NR | NR | NR | NR | 30.29 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 01/12/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.87 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 01/13/11 | NR | Off | NR | NR | NR | NR | NR | NR | 30.24 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 01/14/11 | NR | Off | NR | NR | NR | NR | NR | NR | 30.34 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 01/17/11 | NR | Off | NR | NR | NR | NR | NR | NR | 30.33 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 01/18/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.83 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 01/19/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.88 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 01/20/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.99 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 01/24/11 | NR | Off | NR | NR | NR | NR | NR | NR | 30.34 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 01/25/11 | NR | Off | NR | NR | NR | NR | NR | NR | 30.07 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 01/26/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.91 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 01/27/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.82 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 01/28/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.79 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |
| 01/31/11 | NR | Off | NR | NR | NR | NR | NR | NR | 30.54 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | |

Notes:
NR = Not Recorded.
NG = No Gauge
BG = Broken Gauge
in Hg = inches Mercury
F = degrees Farenheit
psi = Pressure per Square Inch
in H2O = inches Water
cfm = Cubic Feet per Minute
ppm = Parts Per Million

Table D-2
Site 3805A
November 2010 - January 2011 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 H2O) | Sparge Influent Pressure (psi) | Sparge Influent Temperature (F) | Sparge Effluent Pressure (psi) | Sparge Effluent Temperature (F) | Sparge Differential Pressure (in H2O) | Oil Water Separator Flow (gallons) | Air Flow (cfm) | System Effluent (ppm) | Total Mass Recovered (lbs) | Total Recovery Rate (lbs/hr) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

lbs = Pounds
lbs/hr = Pounds per Hour

Table D-3
Site 3805B
November 2010 - January 2011 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 $H_2O$) | Sparge Influent Pressure (psi) | Sparge Influent Temperature (F) | Sparge Effluent Pressure (psi) | Sparge Effluent Temperature (F) | Sparge Differential Pressure (in $H_2O$) | Oil Water Separator Flow (gallons) | Air Flow (cfm) | System Effluent (ppm) | Total Mass Recovered (lbs) | Total Recovery Rate (lbs/hr) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/01/10 | 0759 | On | NR | NR | 18214.4 | 68.9 | NR | NR | 30.39 | NR | NR | NR | 9.0 | 112 | 7.0 | 64 | 1.55 | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/02/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.46 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/03/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.10 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/04/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.68 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/05/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.56 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/08/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.98 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/09/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.11 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/10/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.24 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/11/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.47 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/12/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.42 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/15/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.00 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/16/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.88 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/17/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.43 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/18/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.02 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/19/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.23 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/22/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.02 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/23/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.79 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/24/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.23 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/29/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.42 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/30/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.01 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 12/01/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.68 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 12/02/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.99 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 12/03/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.04 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 12/06/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.54 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 12/07/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.55 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 12/08/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.91 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 12/09/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.26 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 12/10/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.17 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 12/13/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.35 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 12/14/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.56 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 12/15/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.73 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 12/16/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.69 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 12/17/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.90 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 12/20/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.03 | NR | NR | NR | NR | NR | NR | NR | NR | 1374473.7 | NR | NR | NR | NR | System offline for PCE investigation |
| 12/21/10 | 0740 | On | NR | NR | 18232.4 | 18.0 | NR | NR | 30.07 | NR | NR | NR | 9.0 | 102 | 7.0 | 68 | 1.55 | 1374473.7 | NR | NR | NR | NR | AS only |
| 12/27/10 | 0807 | On | NR | NR | 18377.0 | 144.6 | NR | NR | 29.76 | NR | NR | NR | 9.0 | 90 | 7.5 | 58 | 1.55 | 1374473.7 | NR | NR | NR | NR | AS only |
| 12/28/10 | 1012 | On | NR | NR | 18403.0 | 26.0 | NR | NR | 29.86 | NR | NR | NR | 9.0 | 106 | 7.0 | 60 | 1.55 | 1374473.7 | NR | NR | NR | NR | AS only |
| 12/29/10 | 1051 | On | NR | NR | 18427.7 | 24.7 | NR | NR | 30.01 | NR | NR | NR | 9.0 | 110 | 7.0 | 62 | 1.55 | 1374473.7 | NR | NR | NR | NR | AS only |
| 12/30/10 | 0742 | On | NR | NR | 18448.5 | 20.8 | NR | NR | 30.11 | NR | NR | NR | 9.0 | 82 | 7.0 | 64 | 1.55 | 1374473.7 | NR | NR | NR | NR | AS only |
| 01/03/11 | 0731 | On | NR | NR | 18544.4 | 95.9 | NR | NR | 30.08 | NR | NR | NR | 9.0 | 100 | 7.0 | 60 | 1.55 | 1374473.7 | NR | NR | NR | NR | AS only |
| 01/04/11 | 0753 | On | NR | NR | 18568.6 | 24.2 | NR | NR | 29.84 | NR | NR | NR | 8.5 | 124 | 7.0 | 60 | 1.55 | 1374473.7 | NR | NR | NR | NR | AS only |
| 01/05/11 | 0834 | On | NR | NR | 18593.3 | 24.7 | NR | NR | 29.81 | NR | NR | NR | 9.5 | 98 | 7.5 | 58 | 1.55 | 1374473.7 | NR | NR | NR | NR | AS only |
| 01/06/11 | 1025 | On | NR | NR | 18619.1 | 25.8 | NR | NR | 29.66 | NR | NR | NR | 8.5 | 96 | 6.5 | 58 | 1.55 | 1374473.7 | NR | NR | NR | NR | AS only |
| 01/07/11 | 0717 | On | NR | NR | 18640.0 | 20.9 | NR | NR | 29.40 | NR | NR | NR | 8.5 | 100 | 7.0 | 60 | 1.55 | 1374473.7 | NR | NR | NR | NR | AS only |
| 01/10/11 | 1047 | On | NR | NR | 18715.5 | 75.5 | NR | NR | 30.27 | NR | NR | NR | 8.5 | 94 | 7.0 | 58 | 1.55 | 1374473.7 | NR | NR | NR | NR | AS only |
| 01/11/11 | 0701 | On | NR | NR | 18735.8 | 20.3 | NR | NR | 30.29 | NR | NR | NR | 8.5 | 94 | 7.0 | 62 | 1.55 | 1374473.7 | NR | NR | NR | NR | AS only |
| 01/12/11 | 1041 | On | NR | NR | 18763.4 | 27.6 | NR | NR | 29.87 | NR | NR | NR | 7.5 | 120 | 6.0 | 60 | 1.;55 | 1374473.7 | NR | NR | NR | NR | AS only |
| 01/13/11 | 0714 | On | NR | NR | 18784.0 | 20.6 | NR | NR | 30.24 | NR | NR | NR | 9.0 | 92 | 7.0 | 58 | 1.;55 | 1374473.7 | NR | NR | NR | NR | AS only |
| 01/14/11 | 1457 | On | NR | NR | 18815.7 | 31.7 | NR | NR | 30.34 | NR | NR | NR | 9.0 | 96 | 7.0 | 60 | 1.60 | 1374473.7 | NR | NR | NR | NR | AS only |
| 01/17/11 | 0629 | On | NR | NR | 18879.2 | 63.5 | NR | NR | 30.33 | NR | NR | NR | 9.0 | 68 | 7.0 | 54 | 1.60 | 1374473.7 | NR | NR | NR | NR | AS only |
| 01/18/11 | 0817 | On | NR | NR | 18905.0 | 25.8 | NR | NR | 29.83 | NR | NR | NR | 9.0 | 106 | 7.5 | 58 | 1.60 | 1374473.7 | NR | NR | NR | NR | AS only |
| 01/19/11 | 0612 | On | NR | NR | 18927.0 | 22.0 | NR | NR | 29.88 | NR | NR | NR | 8.5 | 100 | 6.5 | 60 | 1.60 | 1374473.7 | NR | NR | NR | NR | AS only |
| 01/20/11 | 0845 | On | NR | NR | 18953.5 | 26.5 | NR | NR | 29.99 | NR | NR | NR | 9.0 | 92 | 7.5 | 58 | 1.60 | 1374473.7 | NR | NR | NR | NR | AS only |
| 01/24/11 | 1226 | On | NR | NR | 19053.2 | 99.7 | NR | NR | 30.34 | NR | NR | NR | 9.5 | 82 | 7.0 | 54 | 1.60 | 1374473.7 | NR | NR | NR | NR | AS only |
| 01/25/11 | 0827 | On | NR | NR | 19073.2 | 20.0 | NR | NR | 30.07 | NR | NR | NR | 8.5 | 96 | 7.0 | 58 | 1.60 | 1374473.7 | NR | NR | NR | NR | AS only |
| 01/26/11 | 0811 | On | NR | NR | 19096.9 | 23.7 | NR | NR | 29.91 | NR | NR | NR | 8.5 | 104 | 7.0 | 60 | 1.60 | 1374473.7 | NR | NR | NR | NR | AS only |
| 01/27/11 | 1451 | On | NR | NR | 19127.6 | 30.7 | NR | NR | 29.82 | NR | NR | NR | 8.0 | 106 | 7.0 | 64 | 1.60 | 1374473.7 | NR | NR | NR | NR | AS only |
| 01/28/11 | 1140 | On | NR | NR | 19148.3 | 20.7 | NR | NR | 29.79 | NR | NR | NR | 8.5 | 106 | 7.0 | 60 | 1.60 | 1374473.7 | NR | NR | NR | NR | AS only |
| 01/31/11 | 1305 | On | NR | NR | 19221.8 | 73.5 | NR | NR | 30.54 | NR | NR | NR | 9.5 | 86 | 7.5 | 68 | 1.60 | 1374473.7 | NR | NR | NR | NR | AS only |

Notes:
NR = Not Recorded.
in Hg = inches of Mercury
F = degrees Farenheit
psi = Pressure per Square Inch
in $H_2O$ = inches of Water
cfm = Cubic Feet per Minute
ppm = Parts Per Million
lbs = Pounds
lbs/hr = Pounds per Hour

Table D-4
Site 3805C
November 2010 - January 2011 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 $H_2O$) | SVE Effluent Temperature (F) | SVE Differential Pressure (in $H_2O$) | Sparge Influent Pressure (psi) | Sparge Influent Temperature (F) | Sparge Effluent Pressure (psi) | Sparge Effluent Temperature (F) | Sparge Differential Pressure (2-15) (in $H_2O$) | Sparge Differential Pressure (2-16) (in $H_2O$) | Sparge Differential Pressure (2-23) (in $H_2O$) | Sparge Differential Pressure (2-24) (in $H_2O$) | Oil Water Separator Flow | Air Flow (cfm) | System Effluent (ppm) | Total Mass Recovered (lbs) | Total Recovery Rate (lbs/hr) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/01/10 | 0742 | On | 19710.4 | -74.9 | 20018.4 | 69.2 | 5.0 | 60.0 | 30.39 | 0.0 | 120.0 | 1.4 | 8.0 | 110.0 | 6.5 | 60.0 | 0.04 | 0.0 | 0.2 | 0.05 | 646111.1 | 394.9 | 1.3 | -0.231 | 0.003 | System offline for PCE investigation |
| 11/02/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.46 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/03/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.10 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/04/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.68 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/05/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.56 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/08/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.98 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/09/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.11 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/10/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.24 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/11/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.47 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/12/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.42 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/15/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.00 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/16/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.88 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/17/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.43 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/18/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.02 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/19/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.23 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/22/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.02 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/23/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.79 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/24/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.23 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/29/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.42 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | NR | NR | NR | NR | System offline for PCE investigation |
| 11/30/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.01 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | NR | NR | NR | NR | System offline for PCE investigation |
| 12/01/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.68 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | 0.0 | NR | NR | NR | System offline for PCE investigation |
| 12/02/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.99 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | 0.0 | NR | NR | NR | System offline for PCE investigation |
| 12/03/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.04 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | 0.0 | NR | NR | NR | System offline for PCE investigation |
| 12/06/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.54 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | 0.0 | NR | NR | NR | System offline for PCE investigation |
| 12/07/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.55 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | 0.0 | NR | NR | NR | System offline for PCE investigation |
| 12/08/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.91 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | 0.0 | NR | NR | NR | System offline for PCE investigation |
| 12/09/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.26 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | 0.0 | NR | NR | NR | System offline for PCE investigation |
| 12/10/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.17 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | 0.0 | NR | NR | NR | System offline for PCE investigation |
| 12/13/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.35 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | 0.0 | NR | NR | NR | System offline for PCE investigation |
| 12/14/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.56 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | 0.0 | NR | NR | NR | System offline for PCE investigation |
| 12/15/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.73 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | 0.0 | NR | NR | NR | System offline for PCE investigation |
| 12/16/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.69 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | 0.0 | NR | NR | NR | System offline for PCE investigation |
| 12/17/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.90 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | 0.0 | NR | NR | NR | System offline for PCE investigation |
| 12/20/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.03 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | 0.0 | NR | NR | NR | System offline for PCE investigation |
| 12/21/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.07 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 646111.1 | 0.0 | NR | NR | NR | Off for Maintence, heater system frozen |
| 12/27/10 | NR | On | NR | NR | 3.4 | 3.4 | NR | NR | 29.76 | NR | NR | NR | 9.0 | 108.0 | 6.5 | 58.0 | 0.06 | 0.0 | 0.1 | 0.05 | 646111.1 | 0.0 | NR | NR | NR | AS on , SVE still frozen |
| 12/28/10 | 953 | On | NR | NR | 25.9 | 22.5 | NR | NR | 29.86 | NR | NR | NR | 8.0 | 108.0 | 6.0 | 60.0 | 0.06 | 0.0 | 0.1 | 0.10 | 646111.1 | 0.0 | NR | NR | NR | AS on , SVE still frozen |
| 12/29/10 | 0811 | On | NR | NR | 48.2 | 22.3 | NR | NR | 30.01 | NR | NR | NR | 7.5 | 110.0 | 6.0 | 62.0 | 0.08 | 0.0 | 0.1 | 0.05 | 627377.5 | 0.0 | NR | NR | NR | Meter was cracked and broken switched with meter from 3805D , new starting flow number |
| 12/30/10 | 0724 | On | 24.1 | 24.1 | 70.5 | 22.3 | 6.5 | 70.0 | 30.11 | 0.0 | 112.0 | 1.8 | 7.0 | 110.0 | 6.0 | 76.0 | 0.08 | 0.0 | 0.1 | 0.10 | 627545.1 | 167.6 | 0.6 | 0.015 | 0.001 | |
| 01/03/11 | 0710 | On | 119.8 | 95.7 | 166.3 | 95.8 | 5.0 | 68.0 | 30.08 | 0.0 | 92.0 | 1.8 | 7.5 | 110.0 | 6.0 | 70.0 | 0.06 | 0.0 | 1.4 | 0.10 | 627545.1 | 0.0 | 0.6 | 0.000 | 0.000 | |
| 01/04/10 | 0712 | On | 143.9 | 24.1 | 190.4 | 24.1 | 7.5 | 70.0 | 29.84 | 0.0 | 124.0 | 1.6 | 7.5 | 112.0 | 6.0 | 76.0 | 0.06 | 0.0 | 0.2 | 0.05 | 627744.6 | 199.5 | 1.7 | 0.049 | 0.002 | |
| 01/05/11 | 0816 | On | 168.9 | 25.0 | 215.4 | 25.0 | 7.5 | 68.0 | 29.81 | 0.0 | 120.0 | 1.6 | 7.5 | 108.0 | 6.0 | 68.0 | 0.08 | 0.0 | 0.1 | 0.10 | 628060.1 | 315.5 | 0.9 | 0.043 | 0.002 | |
| 01/06/11 | 1009 | On | 194.8 | 25.9 | 241.3 | 25.9 | 7.0 | 64.0 | 29.66 | 0.0 | 116.0 | 1.4 | 7.5 | 108.0 | 5.5 | 88.0 | 0.06 | 0.0 | 0.2 | 0.05 | 628387.6 | 327.5 | 1.1 | 0.056 | 0.002 | |
| 01/07/11 | 0658 | On | 215.6 | 20.8 | 262.1 | 20.8 | 7.0 | 62.0 | 29.40 | 0.0 | 120.0 | 1.4 | 7.5 | 110.0 | 6.0 | 70.0 | 0.06 | 0.0 | 0.2 | 0.05 | 628624.8 | 237.2 | 0.9 | 0.027 | 0.001 | |
| 01/10/11 | 1031 | On | 291.2 | 75.6 | 337.6 | 75.5 | 7.0 | 62.0 | 30.27 | 0.0 | 112.0 | 1.8 | 7.5 | 104.0 | 6.0 | 64.0 | 0.06 | 0.0 | 0.2 | 0.05 | 629481.0 | 856.2 | 0.8 | 0.311 | 0.004 | |
| 01/11/11 | 0624 | On | 311.4 | 20.2 | 357.8 | 20.2 | 7.0 | 66.0 | 30.29 | 0.0 | 112.0 | 1.6 | 8.0 | 100.0 | 6.5 | 58.0 | 0.06 | 0.0 | 0.2 | 0.10 | 629750.1 | 269.1 | 1.3 | 0.042 | 0.002 | |
| 01/12/11 | 1208 | On | 340.8 | 29.4 | 387.3 | 29.5 | 6.5 | 62.0 | 29.87 | 0.0 | 118.0 | 1.4 | 7.5 | 106.0 | 6.0 | 64.0 | 0.06 | 0.0 | 0.2 | 0.05 | 630109.9 | 359.8 | 0.7 | 0.044 | 0.002 | |
| 01/13/11 | 0650 | On | 359.5 | 18.7 | 406.0 | 18.7 | 6.5 | 60.0 | 30.24 | 0.0 | 112.0 | 1.4 | 8.0 | 98.0 | 6.5 | 56.0 | 0.06 | 0.0 | 0.2 | 0.05 | 630306.4 | 196.5 | 0.7 | 0.015 | 0.001 | |
| 01/14/11 | 1434 | On | 391.2 | 31.7 | 437.7 | 31.7 | 7.5 | 70.0 | 30.34 | 0.0 | 118.0 | 1.6 | 7.5 | 110.0 | 6.0 | 76.0 | 0.06 | 0.0 | 0.2 | 0.05 | 630692.3 | 385.9 | 0.6 | 0.044 | 0.001 | |
| 01/17/11 | 0605 | On | 454.8 | 63.6 | 501.2 | 63.5 | 5.0 | 48.0 | 30.33 | 1.2 | 92.0 | 1.6 | 9.0 | 76.0 | 7.5 | 34.0 | 0.06 | 0.0 | 0.2 | 0.05 | 631439.7 | 747.4 | 0.9 | 0.257 | 0.004 | |
| 01/18/11 | 1005 | On | 482.8 | 28.0 | 529.2 | 28.0 | 7.5 | 66.0 | 29.83 | 0.0 | 124.0 | 1.6 | 7.5 | 112.0 | 5.5 | 72.0 | 0.06 | 0.0 | 0.2 | 0.05 | 631734.6 | 294.9 | 0.8 | 0.040 | 0.001 | |
| 01/19/11 | 0600 | On | 500.3 | 17.5 | 549.2 | 20.0 | 5.0 | 66.0 | 29.88 | 0.0 | 98.0 | 1.8 | 7.5 | 110.0 | 6.0 | 68.0 | 0.06 | 0.2 | 0.0 | 0.05 | 631748.7 | 14.1 | 0.7 | 0.001 | 0.000 | |
| 01/20/11 | 0807 | On | 526.4 | 26.1 | 575.3 | 26.1 | 5.0 | 62.0 | 29.99 | 0.0 | 90.0 | 2.0 | 7.0 | 98.0 | 6.0 | 58.0 | 0.08 | 0.0 | 0.2 | 0.05 | 631748.7 | 0.0 | 0.6 | 0.000 | 0.000 | |
| 01/24/11 | 1204 | On | 626.2 | 99.8 | 675.1 | 99.8 | 5.0 | 60.0 | 30.34 | 0.0 | 80.0 | 2.0 | 8.0 | 84.0 | 6.0 | 56.0 | 0.08 | 0.0 | 0.1 | 0.10 | 631780.4 | 31.7 | 0.8 | 0.015 | 0.000 | |
| 01/25/11 | 0802 | On | 646.3 | 20.1 | 695.2 | 20.1 | 5.0 | 62.0 | 30.07 | 0.0 | 88.0 | 2.0 | 7.5 | 98.0 | 6.0 | 60.0 | 0.06 | 0.0 | 0.1 | 0.10 | 631780.4 | 0.0 | 0.2 | 0.000 | 0.000 | |
| 01/26/11 | 0850 | Off | 649.6 | 3.3 | 719.9 | 24.7 | NR | NR | 29.91 | NR | NR | NR | 8.0 | 110.0 | 6.5 | 64.0 | 0.06 | 0.0 | 0.1 | 0.10 | 631780.4 | 0.0 | NR | NR | NR | SVE offline due to transfer pump in the stripper |
| 01/27/11 | 1459 | On | NR | NR | 749.9 | 30.0 | NR | NR | 29.82 | NR | NR | NR | 7.5 | 110.0 | 6.0 | 70.0 | 0.08 | 0.0 | 0.1 | 0.10 | 631780.4 | 0.0 | NR | NR | NR | SVE offline due to transfer pump in the stripper |
| 01/28/11 | 0948 | On | NR | NR | 769.0 | 19.1 | NR | NR | 29.79 | NR | NR | NR | 7.5 | 110.0 | 6.5 | 72.0 | 0.08 | 0.0 | 0.1 | 0.10 | 631780.4 | 0.0 | NR | NR | NR | SVE offline due to transfer pump in the stripper |
| 01/31/11 | 1150 | On | NR | NR | 843.0 | 74.0 | NR | NR | 30.54 | NR | NR | NR | 8.5 | 92.0 | 7.0 | 56.0 | 0.06 | 0.0 | 0.1 | 0.10 | 631780.4 | 0.0 | NR | NR | NR | SVE offline due to transfer pump in the stripper |

Notes:
NR = Not Recorded.
in Hg = inches of Mercury
F = degrees Farenheit
psi = Pressure per Square Inch
in $H_2O$ = inches of Water
cfm = Cubic Feet per Minute
ppm = Parts Per Million
lbs = Pounds
lbs/hr = Pounds per Hour

Table D-5
Site 3805D
November 2010 - January 2011 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 (kPa) | SVE Influent Temperature (F) | Barometric Pressure (in Hg) | SVE Effluent Pressure (psi) | SVE Effluent Temperature (F) | SVE Differential Pressure (in $H_2O$) | Sparge Influent Pressure (psi) | Sparge Influent Temperature (F) | Sparge Effluent Pressure (psi) | Sparge Effluent Temperature (F) | Sparge Differential Pressure (in $H_2O$) | Oil Water Separator Flow (gallons) | AS Flow (gallons) | AS Differential Pressure (in $H_2O$) | Air Flow (cfm) | SVE Effluent (ppm) | Total Mass Recovered (lbs) | Total Recovery Rate (lbs/hr) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/01/10 | 0756 | On | NR | NR | 15945.8 | 69.2 | NR | NR | 30.39 | NR | NR | NR | 6.5 | 116 | 7.0 | 112 | 0.0 | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 11/02/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.46 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 11/03/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.10 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 11/04/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.68 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 11/05/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.56 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 11/08/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.98 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 11/09/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.11 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 11/10/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.24 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 11/11/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.47 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 11/12/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.42 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 11/15/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.00 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 11/16/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.88 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 11/17/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.43 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 11/18/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.02 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 11/19/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.23 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 11/22/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.02 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 11/23/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.79 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 11/24/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.23 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 11/29/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.42 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 11/30/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.01 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 12/01/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.68 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 12/02/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.99 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 12/03/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.04 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 12/06/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.54 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 12/07/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.55 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 12/08/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.91 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 12/09/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.26 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 12/10/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.17 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 12/13/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.35 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 12/14/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.56 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 12/15/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.73 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 12/16/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.69 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 12/17/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.90 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 12/20/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.03 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | System offline for PCE investigation |
| 12/21/10 | NR | On | NR | NR | 15963.1 | 17.3 | NR | NR | 30.07 | NR | NR | NR | 7.0 | 100 | 7.0 | 80 | 0.1 | NR | NR | NR | NR | NR | NR | NR | System reactivated |
| 12/27/10 | NR | On | NR | NR | 16107.5 | 144.4 | NR | NR | 29.76 | NR | NR | NR | 7.5 | 84 | 7.0 | 62 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |
| 12/28/10 | 1006 | On | NR | NR | 16133.6 | 26.1 | NR | NR | 29.86 | NR | NR | NR | 6.5 | 110 | 7.0 | 88 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |
| 12/29/10 | 900 | On | NR | NR | 16156.5 | 22.9 | NR | NR | 30.01 | NR | NR | NR | 6.5 | 110 | 7.0 | 88 | 0.1 | NR | NR | NR | NR | NR | NR | NR | |
| 12/30/10 | 0736 | On | NR | NR | 16179.1 | 22.6 | NR | NR | 30.11 | NR | NR | NR | 8.0 | 90 | 7.0 | 62 | 0.1 | NR | NR | NR | NR | NR | NR | NR | |
| 01/03/11 | 0727 | On | NR | NR | 16275.0 | 95.9 | NR | NR | 30.08 | NR | NR | NR | 7.0 | 100 | 8.0 | 80 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |
| 01/04/11 | 0802 | On | NR | NR | 16299.6 | 24.6 | NR | NR | 29.84 | NR | NR | NR | 8.0 | 82 | 8.0 | 62 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |
| 01/05/11 | 0828 | On | NR | NR | 16324.0 | 24.4 | NR | NR | 29.81 | NR | NR | NR | 7.5 | 98 | 7.0 | 76 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |
| 01/06/11 | 1022 | On | NR | NR | 16349.9 | 25.9 | NR | NR | 29.66 | NR | NR | NR | 8.5 | 80 | 7.0 | 58 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |
| 01/07/11 | 0714 | On | NR | NR | 16370.8 | 20.9 | NR | NR | 29.40 | NR | NR | NR | 8.0 | 82 | 7.0 | 42 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |
| 01/10/11 | 1041 | On | NR | NR | 16446.2 | 75.4 | NR | NR | 30.27 | NR | NR | NR | 7.5 | 88 | 7.0 | 64 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |
| 01/11/11 | 0658 | On | NR | NR | 16466.5 | 20.3 | NR | NR | 30.29 | NR | NR | NR | 8.0 | 88 | 7.5 | 68 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |
| 01/12/11 | 1026 | On | NR | NR | 16492.7 | 26.2 | NR | NR | 29.87 | NR | NR | NR | 8.0 | 86 | 7.5 | 58 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |

Table D-5
Site 3805D
November 2010 - January 2011 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 (kPa) | SVE Influent Temperature (F) | Barometric Pressure (in Hg) | SVE Effluent Pressure (psi) | SVE Effluent Temperature (F) | SVE Differential Pressure (in $H_2O$) | Sparge Influent Pressure (psi) | Sparge Influent Temperature (F) | Sparge Effluent Pressure (psi) | Sparge Effluent Temperature (F) | Sparge Differential Pressure (in $H_2O$) | Oil Water Separator Flow (gallons) | AS Flow (gallons) | AS Differential Pressure (in $H_2O$) | Air Flow (cfm) | SVE Effluent (ppm) | Total Mass Recovered (lbs) | Total Recovery Rate (lbs/hr) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01/13/11 | 705 | On | NR | NR | 16513.3 | 20.6 | NR | NR | 30.24 | NR | NR | NR | 8.0 | 84 | 7.5 | 56 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |
| 01/14/11 | 1455 | On | NR | NR | 16545.1 | 31.8 | NR | NR | 30.34 | NR | NR | NR | 7.5 | 94 | 8.0 | 72 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |
| 01/17/11 | 0625 | On | NR | NR | 16608.7 | 63.6 | NR | NR | 30.33 | NR | NR | NR | 9.0 | 64 | 8.0 | 48 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |
| 01/18/11 | 0811 | On | NR | NR | 16634.4 | 25.7 | NR | NR | 29.83 | NR | NR | NR | 8.0 | 92 | 7.5 | 62 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |
| 01/19/11 | 0617 | On | NR | NR | 16656.5 | 22.1 | NR | NR | 29.88 | NR | NR | NR | 7.0 | 92 | 8.0 | 68 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |
| 01/20/11 | 0829 | On | NR | NR | 16682.7 | 26.2 | NR | NR | 29.99 | NR | NR | NR | 7.5 | 84 | 7.0 | 58 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |
| 01/24/11 | 1219 | On | NR | NR | 16782.6 | 99.9 | NR | NR | 30.34 | NR | NR | NR | 8.0 | 68 | 7.0 | 50 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |
| 01/25/11 | 0820 | On | NR | NR | 16802.6 | 20.0 | NR | NR | 30.07 | NR | NR | NR | 8.0 | 80 | 7.0 | 50 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |
| 01/26/11 | 0806 | On | NR | NR | 16826.4 | 23.8 | NR | NR | 29.91 | NR | NR | NR | 7.5 | 96 | 7.5 | 72 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |
| 01/27/11 | 1445 | On | NR | NR | 16856.8 | 30.4 | NR | NR | 29.82 | NR | NR | NR | 7.5 | 98 | 7.5 | 72 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |
| 01/28/11 | 1130 | On | NR | NR | 16877.8 | 21.0 | NR | NR | 29.79 | NR | NR | NR | 7.0 | 92 | 7.0 | 68 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |
| 01/31/11 | 1258 | On | NR | NR | 16951.2 | 73.4 | NR | NR | 30.54 | NR | NR | NR | 8.0 | 78 | 7.0 | 56 | 0.0 | NR | NR | NR | NR | NR | NR | NR | |

Notes:
NR = Not Recorded.
in Hg = inches of Mercury
F = degrees Farenheit
psi = Pressure per Square Inch
in $H_2O$ = inches of Water
cfm = Cubic Feet per Minute
ppm = Parts Per Million
lbs = Pounds
lbs/hr = Pounds per Hour

# APPENDIX E

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

## Building P2140 – AAFES Station

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

**AAFES**
**(Building P2140)**
**Fort Drum**

| 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 | - | - |
| | 01/13/2010 | 646.30 | NR | - | NR | - | - |
| 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 | - | - |

**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) |
|---|---|---|---|---|---|---|---|
| | 06/29/2005 | 646.78 | NR | - | NR | - | - |
| | 07/07/2005 | 646.78 | NR | - | NR | - | - |
| | 07/27/2005 | 646.78 | 26.64 | 620.14 | - | - | 620.14 |
| | 08/05/2005 | 646.78 | 26.62 | 620.16 | - | - | 620.16 |
| | 08/15/2005 | 646.78 | NR | - | NR | - | - |
| | 09/06/2005 | 646.78 | 26.39 | 620.39 | - | - | 620.39 |
| | 09/23/2005 | 646.78 | 26.30 | 620.48 | - | - | 620.48 |
| | 10/07/2005 | 646.78 | NR | - | NR | - | - |
| | 10/25/2005 | 646.78 | NR | - | NR | - | - |
| | 12/13/2005 | 646.78 | 24.07 | 622.71 | - | - | 622.71 |
| | 01/06/2006 | 646.78 | NR | - | NR | - | - |
| | 02/09/2006 | 646.78 | NR | - | NR | - | - |
| | 02/22/2006 | 646.78 | 23.62 | 623.16 | - | - | 623.16 |
| | 03/16/2006 | 646.78 | NR | - | NR | - | - |
| | 04/12/2006 | 646.78 | NR | - | NR | - | - |
| | 05/17/2006 | 646.78 | 24.56 | 622.22 | - | - | 622.22 |
| | 06/15/2006 | 646.78 | NR | - | NR | - | - |
| | 07/10/2006 | 646.78 | 26.90 | 619.88 | - | - | 619.88 |
| | 08/18/2006 | 646.78 | 25.46 | 621.32 | - | - | 621.32 |
| | 10/24/2006 | 646.78 | NR | - | NR | - | - |
| | 01/04/2007 | 646.78 | NR | - | NR | - | - |
| | 02/01/2007 | 646.78 | 23.92 | 622.86 | - | - | 622.86 |
| | 05/07/2007 | 646.78 | 23.67 | 623.11 | - | - | 623.11 |
| | 05/30/2007 | 646.78 | NR | - | NR | - | - |
| | 07/30/2007 | 646.78 | 25.04 | 621.74 | - | - | 621.74 |
| | 10/07/2007 | 646.78 | NR | - | NR | - | - |
| | 01/07/2008 | 646.78 | NR | - | NR | - | - |
| | 02/26/2008 | 646.78 | NR | - | NR | - | - |
| | 07/01/2008 | 646.78 | 24.45 | 622.33 | - | - | 622.33 |
| 2140-DPE03 | 01/08/2003 | 646.36 | 28.54 | 617.82 | - | - | 617.82 |
| | 09/08/2004 | 646.36 | 31.00 | 615.36 | - | - | 615.36 |
| | 09/22/2004 | 646.36 | 31.00 | 615.36 | - | - | 615.36 |
| | 10/08/2004 | 646.36 | 31.00 | 615.36 | - | - | 615.36 |
| | 10/29/2004 | 646.36 | 31.00 | 615.36 | - | - | 615.36 |
| | 11/04/2004 | 646.36 | 31.00 | 615.36 | - | - | 615.36 |
| | 11/08/2004 | 646.36 | 31.00 | 615.36 | - | - | 615.36 |
| | 12/01/2004 | 646.36 | 31.00 | 615.36 | - | - | 615.36 |
| | 12/15/2004 | 646.36 | 31.00 | 615.36 | - | - | 615.36 |
| | 01/05/2005 | 646.36 | 33.00 | 613.36 | - | - | 613.36 |
| | 01/14/2005 | 646.36 | 33.00 | 613.36 | - | - | 613.36 |
| | 02/03/2005 | 646.36 | 31.00 | 615.36 | - | - | 615.36 |
| | 02/15/2005 | 646.36 | 31.00 | 615.36 | - | - | 615.36 |
| | 03/08/2005 | 646.36 | 33.00 | 613.36 | - | - | 613.36 |
| | 03/22/2005 | 646.36 | 33.00 | 613.36 | - | - | 613.36 |
| | 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 | - | - |

**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) |
|---|---|---|---|---|---|---|---|
| | 06/20/2005 | 646.36 | NR | - | NR | - | - |
| | 06/29/2005 | 646.36 | NR | - | NR | - | - |
| | 07/07/2005 | 646.36 | NR | - | NR | - | - |
| | 07/27/2005 | 646.36 | 28.04 | 618.32 | - | - | 618.32 |
| | 08/05/2005 | 646.36 | 27.99 | 618.37 | - | - | 618.37 |
| | 08/15/2005 | 646.36 | NR | - | NR | - | - |
| | 09/06/2005 | 646.36 | 27.92 | 618.44 | - | - | 618.44 |
| | 09/23/2005 | 646.36 | 27.83 | 618.53 | - | - | 618.53 |
| | 10/07/2005 | 646.36 | NR | - | - | - | - |
| | 10/25/2005 | 646.36 | NR | - | - | - | - |
| | 12/13/2005 | 646.36 | 25.58 | 620.78 | - | - | 620.78 |
| | 01/06/2006 | 646.36 | NR | - | NR | - | - |
| | 02/09/2006 | 646.36 | 25.27 | 621.09 | - | - | 621.09 |
| | 02/22/2006 | 646.36 | 25.19 | 621.17 | - | - | 621.17 |
| | 03/16/2006 | 646.36 | NR | - | NR | - | - |
| | 04/12/2006 | 646.36 | NR | - | NR | - | - |
| | 05/17/2006 | 646.36 | 26.16 | 620.20 | - | - | 620.20 |
| | 06/15/2006 | 646.36 | NR | - | NR | - | - |
| | 07/10/2006 | 646.36 | 26.53 | 619.83 | - | - | 619.83 |
| | 08/18/2006 | 646.36 | 27.22 | 619.14 | - | - | 619.14 |
| | 10/24/2006 | 646.36 | NR | - | NR | - | - |
| | 01/04/2007 | 646.36 | NR | - | NR | - | - |
| | 02/01/2007 | 646.36 | 25.54 | 620.82 | - | - | 620.82 |
| | 05/07/2007 | 646.36 | 25.75 | 620.61 | - | - | 620.61 |
| | 05/30/2007 | 646.36 | NR | - | NR | - | - |
| | 07/30/2007 | 646.36 | 26.84 | 619.52 | - | - | 619.52 |
| | 10/07/2007 | 646.36 | NR | - | NR | - | - |
| | 01/07/2008 | 646.36 | NR | - | NR | - | - |
| | 02/26/2008 | 646.36 | NR | - | NR | - | - |
| | 07/01/2008 | 646.36 | 26.15 | 620.21 | - | - | 620.21 |
| | 09/18/2008 | 646.36 | 17.65 | 628.71 | - | - | 628.71 |
| | 10/23/2008 | 646.36 | 17.15 | 629.21 | - | - | 629.21 |
| | 12/30/2008 | 646.36 | 13.43 | 632.93 | - | - | 632.93 |
| | 01/28/2009 | 646.36 | 13.92 | 632.44 | - | - | 632.44 |
| | 02/24/2009 | 646.36 | 17.30 | 629.06 | - | - | 629.06 |
| | 03/27/2009 | 646.36 | 16.10 | 630.26 | - | - | 630.26 |
| | 04/28/2009 | 646.36 | 16.22 | 630.14 | - | - | 630.14 |
| | 05/20/2009 | 646.36 | 15.62 | 630.74 | - | - | 630.74 |
| | 06/25/2009 | 646.36 | 15.24 | 631.12 | - | - | 631.12 |
| | 07/20/2009 | 646.36 | 16.23 | 630.13 | - | - | 630.13 |
| | 08/25/2009 | 646.36 | 21.88 | 624.48 | - | - | 624.48 |
| | 09/16/2009 | 646.36 | 17.54 | 628.82 | - | - | 628.82 |
| | 10/13/2009 | 646.30 | 19.83 | 626.47 | - | - | 626.47 |
| | 11/10/2009 | 646.30 | 17.41 | 628.89 | - | - | 628.89 |
| | 12/14/2009 | 646.30 | 18.12 | 628.18 | - | - | 628.18 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 06/17/2010 | 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 | - | - |
| | 01/13/2010 | 646.36 | NR | - | NR | - | - |
| 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 | - | - |

**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 | 646.04 | NR | - | NR | - | - |
| | 02/01/2007 | 646.04 | 24.87 | 621.17 | - | - | 621.17 |
| | 05/07/2007 | 646.04 | 25.00 | 621.04 | - | - | 621.04 |
| | 05/30/2007 | 646.04 | NR | - | NR | - | - |
| | 07/30/2007 | 646.04 | 26.14 | 619.90 | - | - | 619.90 |
| | 10/07/2007 | 646.04 | NR | - | NR | - | - |
| | 01/07/2008 | 646.04 | NR | - | NR | - | - |
| | 02/26/2008 | 646.04 | NR | - | NR | - | - |
| | 07/01/2008 | 646.04 | 25.40 | 620.64 | - | - | 620.64 |
| | 09/18/2008 | 646.04 | 20.32 | 625.72 | - | - | 625.72 |
| | 10/23/2008 | 646.04 | 19.60 | 626.44 | - | - | 626.44 |
| | 12/30/2008 | 646.04 | 17.69 | 628.35 | - | - | 628.35 |
| | 01/28/2009 | 646.04 | 14.72 | 631.32 | - | - | 631.32 |
| | 02/24/2009 | 646.04 | 16.45 | 629.59 | - | - | 629.59 |
| | 03/27/2009 | 646.04 | 16.14 | 629.90 | - | - | 629.90 |
| | 04/28/2009 | 646.04 | 16.33 | 629.71 | - | - | 629.71 |
| | 05/20/2009 | 646.04 | 15.02 | 631.02 | - | - | 631.02 |
| | 06/25/2009 | 646.04 | 13.88 | 632.16 | - | - | 632.16 |
| | 07/20/2009 | 646.04 | 14.43 | 631.61 | - | - | 631.61 |
| | 08/25/2009 | 646.04 | 23.05 | 622.99 | - | - | 622.99 |
| | 09/16/2009 | 646.04 | 18.95 | 627.09 | - | - | 627.09 |
| | 10/13/2009 | 646.30 | 18.86 | 627.44 | - | - | 627.44 |
| | 11/10/2009 | 646.30 | 17.98 | 628.32 | - | - | 628.32 |
| | 12/14/2009 | 646.30 | 18.29 | 628.01 | - | - | 628.01 |
| | 01/11/2010 | 646.30 | 26.69 | 619.61 | - | - | 619.61 |
| | 02/10/2010 | 646.30 | 26.48 | 619.82 | - | - | 619.82 |
| | 03/10/2010 | 646.30 | 26.84 | 619.46 | - | - | 619.46 |
| | 04/14/2010 | 646.30 | 26.18 | 620.12 | - | - | 620.12 |
| | 05/12/2010 | 646.04 | 26.45 | 619.59 | - | - | 619.59 |
| | 06/17/2010 | 646.04 | 22.31 | 623.73 | - | - | 623.73 |
| | 07/14/2010 | 646.04 | 22.31 | 623.73 | - | - | 623.73 |
| | 08/09/2010 | 646.04 | 22.15 | 623.89 | - | - | 623.89 |
| | 09/16/2010 | 646.04 | 20.78 | 625.26 | - | - | 625.26 |
| | 10/13/2010 | 646.04 | 25.44 | 620.60 | - | - | 620.60 |
| | 11/16/2010 | 646.04 | 25.47 | 620.57 | - | - | 620.57 |
| | 12/16/2010 | 646.04 | NR | - | NR | - | - |
| | 01/13/2010 | 646.04 | NR | - | NR | - | - |
| 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 02/15/2005 | 641.04 | 27.00 | 614.04 | - | - | 614.04 |
| | 03/08/2005 | 641.04 | 28.00 | 613.04 | - | - | 613.04 |
| | 03/22/2005 | 641.04 | 28.00 | 613.04 | - | - | 613.04 |
| | 04/11/2005 | 641.04 | 28.00 | 613.04 | - | - | 613.04 |
| | 04/25/2005 | 641.04 | 25.75 | 615.29 | - | - | 615.29 |
| | 05/03/2005 | 641.04 | 28.00 | 613.04 | - | - | 613.04 |
| | 05/25/2005 | 641.04 | NR | - | NR | - | - |
| | 06/02/2005 | 641.04 | NR | - | NR | - | - |
| | 06/20/2005 | 641.04 | NR | - | NR | - | - |
| | 06/29/2005 | 641.04 | NR | - | NR | - | - |
| | 07/07/2005 | 641.04 | NR | - | NR | - | - |
| | 07/27/2005 | 641.04 | 26.43 | 614.61 | - | - | 614.61 |
| | 08/05/2005 | 641.04 | 26.38 | 614.66 | - | - | 614.66 |
| | 08/15/2005 | 641.04 | NR | - | NR | - | - |
| | 09/06/2005 | 641.04 | 26.32 | 614.72 | - | - | 614.72 |
| | 09/23/2005 | 641.04 | 26.23 | 614.81 | - | - | 614.81 |
| | 10/07/2005 | 641.04 | NR | - | NR | - | - |
| | 10/25/2005 | 641.04 | NR | - | NR | - | - |
| | 12/13/2005 | 641.04 | 23.98 | 617.06 | - | - | 617.06 |
| | 01/06/2006 | 641.04 | NR | - | NR | - | - |
| | 02/09/2006 | 641.04 | 23.73 | 617.31 | - | - | 617.31 |
| | 02/22/2006 | 641.04 | 23.63 | 617.41 | - | - | 617.41 |
| | 03/16/2006 | 641.04 | NR | - | NR | - | - |
| | 04/12/2006 | 641.04 | NR | - | NR | - | - |
| | 05/17/2006 | 641.04 | 24.76 | 616.28 | - | - | 616.28 |
| | 06/15/2006 | 641.04 | NR | - | NR | - | - |
| | 07/10/2006 | 641.04 | 25.27 | 615.77 | - | - | 615.77 |
| | 08/18/2006 | 641.04 | 25.92 | 615.12 | - | - | 615.12 |
| | 10/24/2006 | 641.04 | NR | - | NR | - | - |
| | 01/04/2007 | 641.04 | NR | - | NR | - | - |
| | 02/01/2007 | 641.04 | 24.12 | 616.92 | - | - | 616.92 |
| | 05/07/2007 | 641.04 | 24.65 | 616.39 | - | - | 616.39 |
| | 05/30/2007 | 641.04 | NR | - | NR | - | - |
| | 07/30/2007 | 641.04 | 25.54 | 615.50 | - | - | 615.50 |
| | 10/07/2007 | 641.04 | NR | - | NR | - | - |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 02/03/2005 | 640.49 | 28.00 | 612.49 | - | - | 612.49 |
| | 02/15/2005 | 640.49 | 28.00 | 612.49 | - | - | 612.49 |
| | 03/08/2005 | 640.49 | 28.00 | 612.49 | - | - | 612.49 |
| | 03/22/2005 | 640.49 | 28.00 | 612.49 | - | - | 612.49 |
| | 04/11/2005 | 640.49 | 28.00 | 612.49 | - | - | 612.49 |
| | 04/25/2005 | 640.49 | 25.52 | 614.97 | - | - | 614.97 |
| | 05/03/2005 | 640.49 | 28.00 | 612.49 | - | - | 612.49 |
| | 05/25/2005 | 640.49 | NR | - | NR | - | - |
| | 06/02/2005 | 640.49 | NR | - | NR | - | - |
| | 06/20/2005 | 640.49 | NR | - | NR | - | - |
| | 06/29/2005 | 640.49 | NR | - | NR | - | - |
| | 07/07/2005 | 640.49 | NR | - | NR | - | - |
| | 07/27/2005 | 640.49 | 26.07 | 614.42 | - | - | 614.42 |
| | 08/05/2005 | 640.49 | 26.02 | 614.47 | - | - | 614.47 |
| | 08/15/2005 | 640.49 | NR | - | NR | - | - |
| | 09/06/2005 | 640.49 | 25.92 | 614.57 | - | - | 614.57 |
| | 09/23/2005 | 640.49 | 25.91 | 614.58 | - | - | 614.58 |
| | 10/07/2005 | 640.49 | NR | - | NR | - | - |
| | 10/25/2005 | 640.49 | NR | - | NR | - | - |
| | 12/13/2005 | 640.49 | 23.73 | 616.76 | - | - | 616.76 |
| | 01/06/2006 | 640.49 | NR | - | NR | - | - |
| | 02/09/2006 | 640.49 | 23.49 | 617.00 | - | - | 617.00 |
| | 02/22/2006 | 640.49 | 23.44 | 617.05 | - | - | 617.05 |
| | 03/16/2006 | 640.49 | NR | - | NR | - | - |
| | 04/12/2006 | 640.49 | NR | - | NR | - | - |
| | 05/17/2006 | 640.49 | 24.44 | 616.05 | - | - | 616.05 |
| | 06/15/2006 | 640.49 | NR | - | NR | - | - |
| | 07/10/2006 | 640.49 | 25.00 | 615.49 | - | - | 615.49 |
| | 08/18/2006 | 640.49 | 25.52 | 614.97 | - | - | 614.97 |
| | 10/24/2006 | 640.49 | NR | - | NR | - | - |
| | 01/04/2007 | 640.49 | NR | - | NR | - | - |
| | 02/01/2007 | 640.49 | 23.83 | 616.66 | - | - | 616.66 |
| | 05/07/2007 | 640.49 | 23.11 | 617.38 | - | - | 617.38 |
| | 05/30/2007 | 640.49 | NR | - | NR | - | - |
| | 07/30/2007 | 640.49 | 25.11 | 615.38 | - | - | 615.38 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 09/16/2009 | 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 | - | - |
| | 01/13/2010 | 640.49 | NR | - | NR | - | - |
| 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 | - | - |

**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 | 638.00 | 23.80 | 614.20 | - | - | 614.20 |
| | 02/22/2006 | 638.00 | 23.84 | 614.16 | - | - | 614.16 |
| | 03/16/2006 | 638.00 | NR | - | NR | - | - |
| | 04/12/2006 | 638.00 | NR | - | NR | - | - |
| | 05/17/2006 | 638.00 | 24.73 | 613.27 | - | - | 613.27 |
| | 06/15/2006 | 638.00 | NR | - | NR | - | - |
| | 07/10/2006 | 638.00 | 25.30 | 612.70 | - | - | 612.70 |
| | 08/18/2006 | 638.00 | 25.94 | 612.06 | - | - | 612.06 |
| | 10/24/2006 | 638.00 | NR | - | NR | - | - |
| | 01/04/2007 | 638.00 | NR | - | NR | - | - |
| | 02/01/2007 | 638.00 | 24.12 | 613.88 | - | - | 613.88 |
| | 05/07/2007 | 638.00 | 25.51 | 612.49 | - | - | 612.49 |
| | 05/30/2007 | 638.00 | NR | - | NR | - | - |
| | 07/30/2007 | 638.00 | 25.82 | 612.18 | - | - | 612.18 |
| | 10/07/2007 | 638.00 | 25.61 | 612.39 | - | - | 612.39 |
| | 01/07/2008 | 638.00 | 25.03 | 612.97 | - | - | 612.97 |
| | 02/26/2008 | 638.00 | 23.85 | 614.15 | - | - | 614.15 |
| | 07/01/2008 | 638.00 | 26.15 | 611.85 | - | - | 611.85 |
| 2140-DPE08 | 01/08/2003 | 638.54 | 27.66 | 610.88 | - | - | 610.88 |
| | 09/08/2004 | 638.54 | 27.76 | 610.78 | - | - | 610.78 |
| | 09/22/2004 | 638.54 | 27.65 | 610.89 | - | - | 610.89 |
| | 10/08/2004 | 638.54 | 27.99 | 610.55 | - | - | 610.55 |
| | 10/29/2004 | 638.54 | 28.08 | 610.46 | - | - | 610.46 |
| | 11/04/2004 | 638.54 | 28.13 | 610.41 | - | - | 610.41 |
| | 11/08/2004 | 638.54 | NR | - | NR | - | - |
| | 12/01/2004 | 638.54 | 28.15 | 610.39 | - | - | 610.39 |
| | 12/15/2004 | 638.54 | 27.60 | 610.94 | - | - | 610.94 |
| | 01/05/2005 | 638.54 | 27.16 | 611.38 | - | - | 611.38 |
| | 01/14/2005 | 638.54 | 27.80 | 610.74 | - | - | 610.74 |
| | 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 |

**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 | 638.54 | NR | - | NR | - | - |
| | 02/09/2006 | 638.54 | 25.31 | 613.23 | - | - | 613.23 |
| | 02/22/2006 | 638.54 | 25.32 | 613.22 | - | - | 613.22 |
| | 03/16/2006 | 638.54 | NR | - | NR | - | - |
| | 04/12/2006 | 638.54 | NR | - | NR | - | - |
| | 05/17/2006 | 638.54 | 26.08 | 612.46 | - | - | 612.46 |
| | 06/15/2006 | 638.54 | NR | - | NR | - | - |
| | 07/10/2006 | 638.54 | 26.54 | 612.00 | - | - | 612.00 |
| | 08/18/2006 | 638.54 | 27.02 | 611.52 | - | - | 611.52 |
| | 10/24/2006 | 638.54 | NR | - | NR | - | - |
| | 01/04/2007 | 638.54 | NR | - | NR | - | - |
| | 02/01/2007 | 638.54 | 25.54 | 613.00 | - | - | 613.00 |
| | 05/07/2007 | 638.54 | 26.03 | 612.51 | - | - | 612.51 |
| | 05/30/2007 | 638.54 | NR | - | NR | - | - |
| | 07/30/2007 | 638.54 | 26.68 | 611.86 | - | - | 611.86 |
| | 10/07/2007 | 638.54 | 26.97 | 611.57 | - | - | 611.57 |
| | 01/07/2008 | 638.54 | 26.54 | 612.00 | - | - | 612.00 |
| | 02/26/2008 | 638.54 | 25.39 | 613.15 | - | - | 613.15 |
| | 07/01/2008 | 638.54 | 25.90 | 612.64 | - | - | 612.64 |
| | 09/18/2008 | 638.54 | 26.09 | 612.45 | - | - | 612.45 |
| | 10/23/2008 | 638.54 | 26.22 | 612.32 | - | - | 612.32 |
| | 12/30/2008 | 638.54 | 24.16 | 614.38 | - | - | 614.38 |
| | 01/28/2009 | 638.54 | 15.29 | 623.25 | - | - | 623.25 |
| | 02/24/2009 | 638.54 | 16.11 | 622.43 | - | - | 622.43 |
| | 03/27/2009 | 638.54 | 15.55 | 622.99 | - | - | 622.99 |
| | 04/28/2009 | 638.54 | 16.21 | 622.33 | - | - | 622.33 |
| | 05/20/2009 | 638.54 | 15.11 | 623.43 | - | - | 623.43 |
| | 06/25/2009 | 638.54 | 14.17 | 624.37 | - | - | 624.37 |
| | 07/20/2009 | 638.54 | 14.47 | 624.07 | - | - | 624.07 |
| | 08/25/2009 | 638.54 | 18.85 | 619.69 | - | - | 619.69 |
| | 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 | - | - |
| | 01/13/2010 | 638.54 | NR | - | NR | - | - |
| 2140-DPE09 | 01/08/2003 | 633.87 | 24.94 | 608.93 | - | - | 608.93 |
| | 09/08/2004 | 633.87 | 29.00 | 604.87 | - | - | 604.87 |

**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) |
|---|---|---|---|---|---|---|---|
| | 09/22/2004 | 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 | - | - |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 12/30/2008 | 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 | - | - |
| | 01/13/2010 | 633.87 | NR | - | NR | - | - |
| 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 | - | - |

**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) |
|---|---|---|---|---|---|---|---|
| | 07/27/2005 | 633.50 | 25.23 | 608.27 | - | - | 608.27 |
| | 08/05/2005 | 633.50 | 24.64 | 608.86 | - | - | 608.86 |
| | 08/15/2005 | 633.50 | NR | - | NR | - | - |
| | 09/06/2005 | 633.50 | 24.63 | 608.87 | - | - | 608.87 |
| | 09/23/2005 | 633.50 | 24.78 | 608.72 | - | - | 608.72 |
| | 10/07/2005 | 633.50 | NR | - | NR | - | - |
| | 10/25/2005 | 633.50 | NR | - | NR | - | - |
| | 12/13/2005 | 633.50 | 22.65 | 610.85 | - | - | 610.85 |
| | 01/06/2006 | 633.50 | NR | - | NR | - | - |
| | 02/09/2006 | 633.50 | 22.44 | 611.06 | - | - | 611.06 |
| | 02/22/2006 | 633.50 | 22.49 | 611.01 | - | - | 611.01 |
| | 03/16/2006 | 633.50 | NR | - | NR | - | - |
| | 04/12/2006 | 633.50 | NR | - | NR | - | - |
| | 05/17/2006 | 633.50 | 23.55 | 609.95 | - | - | 609.95 |
| | 06/15/2006 | 633.50 | NR | - | NR | - | - |
| | 07/10/2006 | 633.50 | 23.97 | 609.53 | - | - | 609.53 |
| | 08/18/2006 | 633.50 | 24.73 | 608.77 | - | - | 608.77 |
| | 10/24/2006 | 633.50 | NR | - | NR | - | - |
| | 01/04/2007 | 633.50 | NR | - | NR | - | - |
| | 02/01/2007 | 633.50 | 23.16 | 610.34 | - | - | 610.34 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 09/16/2010 | 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 | - | - |
| | 01/13/2010 | 633.50 | NR | - | NR | - | - |
| 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 |
| | 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 |

**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 | 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 |
| | 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 |

**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 | 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 |
| | 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 |

**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 | 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 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 10/24/2006 | 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 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 08/18/2006 | 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 |
| | 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 |

**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 | 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 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 06/15/2006 | 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 |
| | 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 |

**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 | 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 |
| | 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 |

**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 | 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 |
| | 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 |

**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 | 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 |
| | 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 |

**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 | 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 |
| | 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 | - | - |

**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 | 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 |
| | 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 |

**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 | 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 |
| | 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 |

**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 | 637.90 | 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 | - | - |
| | 01/13/2010 | 637.84 | NR | - | NR | - | - |
| 2140-MW12 | 01/08/2003 | 629.03 | 20.68 | 608.35 | - | - | 608.35 |

**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) |
|---|---|---|---|---|---|---|---|
| | 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 |
| | 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 |

**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 | 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 | - | - | - | - |
| | 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 | - | - | - | - |

**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 | 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 | - | - | - | - |
| | 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 | - | - | - | - |

**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) |
|---|---|---|---|---|---|---|---|
| | 04/18/2005 | 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 |
| | 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 |

**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 | 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 |
| | 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 |

**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 | 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 |
| | 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 | - | - |
| | 01/13/2010 | 633.25 | NR | - | NR | - | - |
| 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 05/03/2005 | 640.57 | 25.22 | 615.35 | - | - | 615.35 |
| | 05/25/2005 | 640.57 | 25.55 | 615.02 | - | - | 615.02 |
| | 06/02/2005 | 640.57 | 25.54 | 615.03 | - | - | 615.03 |
| | 06/20/2005 | 640.57 | 25.61 | 614.96 | - | - | 614.96 |
| | 06/29/2005 | 640.57 | 25.67 | 614.90 | - | - | 614.90 |
| | 07/07/2005 | 640.57 | 25.76 | 614.81 | - | - | 614.81 |
| | 07/27/2005 | 640.57 | 25.42 | 615.15 | - | - | 615.15 |
| | 08/05/2005 | 640.57 | 25.44 | 615.13 | - | - | 615.13 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 05/03/2005 | 646.42 | 26.64 | 619.78 | - | - | 619.78 |
| | 05/25/2005 | 646.42 | 27.07 | 619.35 | - | - | 619.35 |
| | 06/02/2005 | 646.42 | 27.23 | 619.19 | - | - | 619.19 |
| | 06/20/2005 | 646.42 | 27.31 | 619.11 | - | - | 619.11 |
| | 06/29/2005 | 646.42 | 27.40 | 619.02 | - | - | 619.02 |
| | 07/07/2005 | 646.42 | 27.54 | 618.88 | - | - | 618.88 |
| | 07/27/2005 | 646.42 | 26.82 | 619.60 | - | - | 619.60 |
| | 08/05/2005 | 646.42 | 26.79 | 619.63 | - | - | 619.63 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 05/03/2005 | 637.94 | 25.58 | 612.36 | - | - | 612.36 |
| | 05/25/2005 | 637.94 | 26.30 | 611.64 | - | - | 611.64 |
| | 06/02/2005 | 637.94 | 25.19 | 612.75 | - | - | 612.75 |
| | 06/20/2005 | 637.94 | 26.23 | 611.71 | - | - | 611.71 |
| | 06/29/2005 | 637.94 | 26.29 | 611.65 | - | - | 611.65 |
| | 07/07/2005 | 637.94 | 26.17 | 611.77 | - | - | 611.77 |
| | 07/27/2005 | 637.94 | 26.08 | 611.86 | - | - | 611.86 |
| | 08/05/2005 | 637.94 | 26.05 | 611.89 | - | - | 611.89 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 05/03/2005 | 639.02 | 26.18 | 612.84 | - | - | 612.84 |
| | 05/25/2005 | 639.02 | 26.64 | 612.38 | - | - | 612.38 |
| | 06/02/2005 | 639.02 | 26.02 | 613.00 | - | - | 613.00 |
| | 06/20/2005 | 639.02 | 26.72 | 612.30 | - | - | 612.30 |
| | 06/29/2005 | 639.02 | 26.81 | 612.21 | - | - | 612.21 |
| | 07/07/2005 | 639.02 | 26.95 | 612.07 | - | - | 612.07 |
| | 07/27/2005 | 639.02 | 26.45 | 612.57 | - | - | 612.57 |
| | 08/05/2005 | 639.02 | 26.43 | 612.59 | - | - | 612.59 |
| | 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 |

**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) |
|---|---|---|---|---|---|---|---|
| | 05/03/2005 | 638.85 | 25.42 | 613.43 | - | - | 613.43 |
| | 05/25/2005 | 638.85 | 25.75 | 613.10 | - | - | 613.10 |
| | 06/02/2005 | 638.85 | 29.86 | 608.99 | - | - | 608.99 |
| | 06/20/2005 | 638.85 | 25.89 | 612.96 | - | - | 612.96 |
| | 06/29/2005 | 638.85 | 25.98 | 612.87 | - | - | 612.87 |
| | 07/07/2005 | 638.85 | 26.42 | 612.43 | - | - | 612.43 |
| | 07/27/2005 | 638.85 | 25.90 | 612.95 | - | - | 612.95 |
| | 08/05/2005 | 638.85 | 25.88 | 612.97 | - | - | 612.97 |
| | 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-2
AAFES (Building P-2140)
November 2010 - January 2011 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 $H_2O$) | Sparge Influent Pressure (psi) | Sparge Influent Temperature (F) | Sparge Effluent Pressure (psi) | Sparge Effluent Temperature (F) | Sparge Differential Pressure (in $H_2O$) | Oil Water Separator Flow (gallons) | AS Flow (gallons) | AS Static Pressure (in $H_2O$) | Air Flow (cfm) | System Effluent (ppm) | Total Mass Recovered (lbs) | Total Recovery Rate (lbs/hr) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/01/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.39 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | - | NR | - | NR | NR | Ozone trailer , operational system offline |
| 11/02/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.46 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | - | NR | - | NR | NR | Ozone trailer , operational system offline |
| 11/03/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.10 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | - | NR | - | NR | NR | Ozone trailer , operational system offline |
| 11/04/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.68 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | - | NR | - | NR | NR | Ozone trailer , operational system offline |
| 11/05/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.56 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | - | NR | - | NR | NR | Ozone trailer , operational system offline |
| 11/08/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.98 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | - | NR | - | NR | NR | Ozone trailer , operational system offline |
| 11/09/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.11 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | - | NR | - | NR | NR | Ozone trailer , operational system offline |
| 11/10/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.24 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | - | NR | - | NR | NR | Ozone trailer , operational system offline |
| 11/11/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.47 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | - | NR | - | NR | NR | Ozone trailer , operational system offline |
| 11/12/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.42 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | - | NR | - | NR | NR | Ozone trailer , operational system offline |
| 11/15/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.00 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | - | NR | - | NR | NR | Ozone trailer , operational system offline |
| 11/16/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.88 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | - | NR | - | NR | NR | Ozone trailer , operational system offline |
| 11/17/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.43 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | - | NR | - | NR | NR | Ozone trailer , operational system offline |
| 11/18/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.02 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | - | NR | - | NR | NR | Ozone trailer , operational system offline |
| 11/19/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.23 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | - | NR | - | NR | NR | Ozone trailer , operational system offline |
| 11/22/10 | 1417 | On | 59387.7 | 7.6 | 15929.2 | 8.2 | 10 | 84 | 30.02 | 0 | 142.5 | 2 | 8 | 138 | 7 | 86 | 0 | 678719.0 | 1473670.0 | 0.0 | 458.7 | 0.4 | 0.008 | 0.001 | System restarted while ozone is repaired |
| 11/23/10 | 0911 | On | 59406.6 | 18.9 | 15948.1 | 18.9 | 10 | 88.5 | 29.79 | 0 | 146 | 2 | 7.5 | 138 | 7 | 82 | 0 | 678719.0 | 1473670.0 | 0.0 | 455.1 | 0.8 | 0.041 | 0.002 | |
| 11/24/10 | 0811 | On | 59429.6 | 23.0 | 15971.1 | 23.0 | 8 | 74 | 30.23 | 0 | 129 | 2 | 8 | 118 | 8 | 72 | 0 | 678719.0 | 1473670.0 | 0.0 | 464.6 | 1.1 | 0.071 | 0.003 | |
| 11/29/10 | 0946 | On | 59551.2 | 121.6 | 16092.2 | 121.1 | 10 | 80.5 | 30.42 | 0 | 134.5 | 2 | 8 | 126 | 7 | 88 | 0 | 678719.0 | 1473670.0 | 0.0 | 463.2 | 0.8 | 0.270 | 0.002 | |
| 11/30/10 | 0749 | On | 59573.3 | 22.1 | 16114.8 | 22.6 | 9 | 81.5 | 30.01 | 0 | 136 | 2 | 8 | 128 | 7 | 88 | 0 | 678719.0 | 1473670.0 | 0.0 | 459.7 | 0.6 | 0.037 | 0.002 | |
| 12/01/10 | 1304 | On | 59602.5 | 29.2 | 16144 | 29.2 | 9 | 78.5 | 29.68 | 0 | 131.5 | 2 | 8 | 120 | 7.5 | 68 | 0 | 678719.0 | 1473670.0 | 0.0 | 458.4 | 0.5 | 0.040 | 0.001 | |
| 12/02/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.99 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 12/03/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.04 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 12/06/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.54 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 12/07/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.55 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 12/08/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.91 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 12/09/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.26 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 12/10/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.17 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 12/13/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.35 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 12/14/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.56 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 12/15/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.73 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 12/16/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.69 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 12/17/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.90 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 12/20/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.03 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 12/21/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.07 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 12/27/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.76 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 12/28/10 | NR | Off | NR | NR | NR | NR | NR | NR | 29.86 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 12/29/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.01 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 12/30/10 | NR | Off | NR | NR | NR | NR | NR | NR | 30.11 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 01/03/11 | NR | Off | NR | NR | NR | NR | NR | NR | 30.08 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 01/04/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.84 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 01/05/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.81 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |

Table E-2
AAFES (Building P-2140)
November 2010 - January 2011 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 $H_2O$) | Sparge Influent Pressure (psi) | Sparge Influent Temperature (F) | Sparge Effluent Pressure (psi) | Sparge Effluent Temperature (F) | Sparge Differential Pressure (in $H_2O$) | Oil Water Separator Flow (gallons) | AS Flow (gallons) | AS Static Pressure (in $H_2O$) | Air Flow (cfm) | System Effluent (ppm) | Total Mass Recovered (lbs) | Total Recovery Rate (lbs/hr) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01/06/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.66 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 01/07/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.40 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 01/10/11 | NR | Off | NR | NR | NR | NR | NR | NR | 30.27 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 01/11/11 | NR | Off | NR | NR | NR | NR | NR | NR | 30.29 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 01/12/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.87 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 01/13/11 | NR | Off | NR | NR | NR | NR | NR | NR | 30.24 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 01/14/11 | NR | Off | NR | NR | NR | NR | NR | NR | 30.34 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 01/17/11 | NR | Off | NR | NR | NR | NR | NR | NR | 30.33 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 01/18/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.83 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 01/19/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.88 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 01/20/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.99 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 01/24/11 | NR | Off | NR | NR | NR | NR | NR | NR | 30.34 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 01/25/11 | NR | Off | NR | NR | NR | NR | NR | NR | 30.07 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 01/26/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.91 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 01/27/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.82 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 01/28/11 | NR | Off | NR | NR | NR | NR | NR | NR | 29.79 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |
| 01/31/11 | NR | Off | NR | NR | NR | NR | NR | NR | 30.54 | NR | NR | NR | NR | NR | NR | NR | NR | 678719.0 | 1473670.0 | NR | NR | NR | NR | NR | Ozone trailer , operational system offline |

Notes:
NR = Not Recorded.
in Hg = inches of Mercury
F = degrees Farenheit
psi = Pressure per Square Inch
in $H_2O$ = inches of Water
cfm = Cubic Feet per Minute
ppm = Parts Per Million
lbs = Pounds
lbs/hr = Pounds per Hour

Table E-3
Area 2140 Ozone Injection System
November 2010 - January 2011 O&M Data
Fort Drum, NY

| Date | Time | System Condition | Injecting at Point | Air Flow Rate (scfm) | Air Flow Pressure (psi) | Notes |
|---|---|---|---|---|---|---|
| 11/01/10 | 0730 | On | 2 | 4.2 | 37 | |
| 11/02/10 | 0733 | On | 2 | 4.4 | 34 | |
| 11/03/10 | 0710 | On | 1 | 3.6 | 37 | |
| 11/04/10 | 0712 | On | 1 | 3.6 | 37 | |
| 11/05/10 | 0642 | On | 3 | 3.6 | 37 | |
| 11/08/10 | 1012 | On | 1 | 3.2 | 37 | |
| 11/09/10 | 1146 | On | 1 | 3.2 | 38 | |
| 11/10/10 | 0935 | On | 3 | 3.0 | 38 | |
| 11/11/10 | 1015 | Off | 1 | 3.0 | 38 | Off due to a compressor malfunction |
| 11/12/10 | 1030 | Off | 1 | 2.8 | 40 | compressor, changed valve on leg 4 of operation |
| 11/15/10 | 0800 | On | 3 | 3.4 | 36 | |
| 11/16/10 | 1238 | On | 1 | 3.2 | 37 | |
| 11/17/10 | 0728 | On | 2 | 3.2 | 37 | |
| 11/18/10 | 0800 | On | 4 | 2.2 | 37 | |
| 11/19/10 | 0700 | Off | NR | NR | NR | Issue with compressor, OBG was called. They will be sending someone next week to resolve the issue. |
| 11/22/10 | NR | Off | NR | NR | NR | Off until repaired |
| 11/23/10 | NR | Off | NR | NR | NR | Off until repaired |
| 11/24/10 | NR | Off | NR | NR | NR | Off until repaired |
| 11/29/10 | NR | Off | NR | NR | NR | Off until repaired |
| 11/30/10 | NR | Off | NR | NR | NR | Off until repaired |
| 12/01/10 | NR | Off | NR | NR | NR | Off until repaired |
| 12/02/10 | 1052 | On | 4 | 2.4 | 36 | System operational |
| 12/03/10 | 0856 | On | 2 | 3.0 | 36 | |
| 12/06/10 | 0921 | On | 4 | 2.0 | 38 | |
| 12/07/10 | 1156 | On | 3 | 3.2 | 36 | |
| 12/08/10 | 0949 | On | 1 | 3.2 | 36 | |
| 12/09/10 | 0832 | On | 1 | 3.4 | 37 | |
| 12/10/10 | 0845 | On | 2 | 3.2 | 38 | |
| 12/13/10 | 1231 | On | 1 | 3.4 | 37 | |
| 12/14/10 | 0756 | On | 3 | 3.4 | 36 | |
| 12/15/10 | 0843 | On` | 2 | 3.4 | 36 | |
| 12/16/10 | 0743 | On | 3 | 3.6 | 36 | |
| 12/17/10 | 0845 | On | 2 | 3.4 | 36 | |
| 12/20/10 | 0728 | On | 2 | 3.4 | 36 | |
| 12/21/10 | 0848 | On | 2 | 3.4 | 37 | |
| 12/27/10 | 0749 | On | 3 | 3.4 | 36 | |
| 12/28/10 | 1046 | On | 4 | 2.4 | 36 | |
| 12/29/10 | 1128 | On | 2 | 3.4 | 36 | |
| 12/30/10 | 0811 | On | 4 | 2.2 | 36 | |
| 01/03/11 | 0656 | On | 4 | 2.2 | 36 | |
| 01/04/11 | 0703 | On | 1 | 3.2 | 36 | |
| 01/05/11 | 0800 | On | 3 | 3.6 | 36 | |
| 01/06/11 | 958 | On | 1 | 3.4 | 36 | |
| 01/07/11 | 0643 | On | 4 | 2.0 | 37 | |
| 01/10/11 | 1017 | On | 2 | 3.6 | 36 | |
| 01/11/11 | 0632 | On | 3 | 3.4 | 37 | |
| 01/12/11 | 1109 | On | 1 | 3.4 | 36 | |
| 01/13/11 | 0628 | On | 3 | 3.4 | 36 | |
| 01/14/11 | 1424 | On | 3 | 3.4 | 36 | |
| 01/17/11 | 0555 | On | 1 | 3.4 | 37 | |

Table E-3
Area 2140 Ozone Injection System
November 2010 - January 2011 O&M Data
Fort Drum, NY

| Date | Time | System Condition | Injecting at Point | Air Flow Rate (scfm) | Air Flow Pressure (psi) | Notes |
|---|---|---|---|---|---|---|
| 01/18/11 | 0735 | Off | 3 | 3.4 | 38 | Off due to low air |
| 01/19/11 | 0546 | On | 1 | 3.2 | 37 | |
| 01/20/11 | 0741 | On | 3 | 3.6 | 38 | |
| 01/24/11 | 0747 | On | 3 | 3.6 | 36 | |
| 01/25/11 | 0746 | On | 3 | 3.4 | 37 | |
| 01/26/11 | 0635 | On | 3 | 3.6 | 36 | |
| 01/27/11 | 1239 | On | 1 | 3.6 | 37 | |
| 01/28/11 | 0841 | On | 1 | 3.6 | 36 | |
| 01/31/11 | 1210 | On | 4 | 2.4 | 37 | |

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

# APPENDIX F

## Remedial System Action List

**Appendix F**
**November - January 2011**
**Remedial System Action List**
**Fort Drum, New York**

| Date | Action Taken |
|---|---|
| ***Area 1595*** | |
| 01/11/11 | System was taken offline for stabilization prior to YSI sampling |
| 01/14/11 | System reactivated after the completion of the YSI sampling event |
| 01/26/11 | System was off line on arrival due to a power outage. The system was checked, reset and restarted |
| ***Area 1795, System A*** | |
| 01/05/11 | System was deactivated to remove the SVE blower, and switch it with the SVE blower from 1795B |
| 01/06/11 | System was reactivated after the SVE blower was installed |
| ***Area 1795, System B*** | |
| - | - |
| ***Area 1795, System C*** | |
| - | - |
| ***Areas 3805 & 1995, System A*** | |
| - | - |
| ***Areas 3805 & 1995, System B*** | |
| 11/01/10 | System was taken off line for the PCE investigation |
| 12/20/10 | System was reactivated after the completion of the PCE investigation |
| ***Areas 3805 & 1995, System C*** | |
| 11/01/10 | The AAS and SVE systems were taken off line for the PCE investigation |
| 12/20/10 | The AAS amd SVE systems were reactivated after the completion of the PCE investigation |
| 12/21/10 | The AAS and SVE systems were off line upon arrival due to a broken heater |
| 12/27/10 | The AAS system was reactivated after the heater was repaired and the system thawed |
| 12/29/10 | The SVE system was reactivated after the heater was repaired and the system thawed |
| 01/26/11 | The SVE system was taken off line due to a broken stripper transfer pump |
| 01/31/11 | The SVE system remains off line until the proper repairs can be made |
| ***Areas 3805 & 1995, System D*** | |
| 11/01/10 | System was taken off line for the PCE investigation |
| 12/20/10 | System was reactivated after the completion of the PCE investigation |
| ***AAFES Station*** | |
| 11/22/10 | System was activated while repairs were made to the ozone treatment system |
| 12/01/10 | System was taken off line after the repairs were made to the ozone treatment system |
| ***AAFES Station - Ozone System*** | |
| 11/22/10 | compressor |
| 12/01/11 | The system was reactivated after the air compressor was repaired |