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GROUNDWATER WELL MANAGEMENT PLAN REVISION 8 NSA MILLINGTON TN  
11/3/2005  
ENSAFE

**GROUNDWATER WELL MANAGEMENT PLAN**  
**NAVAL SUPPORT ACTIVITY MID-SOUTH MILLINGTON, TENNESSEE**

**REVISION: 8**

**CONTRACT NUMBER: N62467-89-D-0318**  
**CTO-0094**  
**CTO-0146**

**Prepared for:**



**Department of the Navy**  
**Southern Division**  
**Naval Facilities Engineering Command**  
**Charleston, South Carolina**

**Prepared by:**



**EnSafe Inc.**  
**5724 Summer Trees Drive**  
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**(901) 372-7962**  
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**November 3, 2005**

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The Contractor, EnSafe Inc., hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-D-0318 is complete, accurate, and complies with all requirements of the contract.

**Date:** November 3, 2005  
**Signature:**   
**Name:** John Stedman  
**Title:** Task Order Manager

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## EXECUTIVE SUMMARY

This plan updates all previous revisions of the Groundwater Monitoring Well Management Plan originally prepared by EnSafe/Allen & Hoshall in 1995 and outlines inspection criteria and maintenance procedures for wells at the Naval Support Activity (NSA) Mid-South, Millington, Tennessee. Maintenance procedures are designed to ensure well integrity and compliance with local, state, and federal regulations. There are presently 202 Resource Conservation and Recovery Act Facility Investigation (RFI) groundwater monitoring wells and piezometers, three underground storage tank (UST) wells, five potable water supply wells, and two non-potable water wells in use at and around NSA Mid-South. As part of the RFI, two private wells located offsite of the base property have also been monitored (i.e., water-level measurements and/or groundwater sampling). The potable, non-potable, and private wells are not covered under this management plan and are listed as reference only.

Most of the monitoring wells were installed at NSA Mid-South sites designated as Solid Waste Management Units (SWMUs) during the RFI. Some of these SWMUs have been or are nearing official closure. In accordance with a September 23, 1997, technical memorandum, several wells were closed in 1998. Many of the leak detection wells at NSA Mid-South were also closed in 1998 as the tank systems associated with them were removed. Additionally, in September 2005, 92 wells located at either no further action sites or upgradient of contaminant plumes were abandoned with permission from the BRAC Cleanup Team (BCT). As a result, the well database (Appendix A) has been periodically updated by NSA Mid-South (or a designee). The table on the following page provides a summary of the wells currently in the database. Four of the 485 wells listed in the summary table are not included in the database. See Section 3.3.5.3 for more details.

**Naval Support Activity Mid-South  
Groundwater Well Summary  
October 2005**

<b>Well Type</b>	<b>Tank Pit</b>	<b>Alluvium</b>	<b>Loess</b>	<b>Fluvial Deposits</b>	<b>Cockfield Formation</b>	<b>Memphis Sand</b>	<b>Fort Pillow</b>	<b>Total</b>	<b>Data Source</b>
RFI — Open	0	24	18	159	1	0	0	202	Table 3-1
RFI — Closed	0	40	41	48	15	0	0	144	Appendix A
Leak Detection — Open	0	0	0	0	0	0	0	0	Table 3-2
Leak Detection — Closed	39	0	0	0	0	0	0	39	Table 3-2
UST — Open	0	0	3	0	0	0	0	3	Table 3-3
UST — Closed	0	0	77	0	0	0	0	77	Table 3-3
Potable Water — Open	0	0	0	0	0	2	3	5	Table 3-4
Potable Water — Closed	0	0	0	0	0	4	1	5	Sect. 3.3.5.3
Non-Potable/Other — Open	0	0	0	1	0	1	0	2	Table 3-5
Non-Potable/Other — Closed	0	0	0	1	2	1	0	4	Table 3-5
Private (Offsite) — Open	0	0	0	2	0	0	0	2	Appendix A
Private (Offsite) — Closed	0	0	0	2	0	0	0	2	Appendix A
<b>Total</b>	<b>39</b>	<b>64</b>	<b>139</b>	<b>213</b>	<b>18</b>	<b>8</b>	<b>4</b>	<b>485</b>	

## **1.0 INTRODUCTION**

This revision updates the original Groundwater Monitoring Well Management Plan prepared by EnSafe/Allen & Hoshall (E/A&H) in 1995 and subsequent revisions, with the most recent being Revision 7 prepared by EnSafe Inc. (EnSafe) in December 2003. It outlines inspection criteria and maintenance procedures for all monitoring wells installed at the Naval Support Activity (NSA) Mid-South, Millington, Tennessee. Maintenance procedures are designed to ensure well integrity and continued compliance with local, state, and federal regulations. This revised document will be referred to as the Groundwater Well Management Plan for NSA Mid-South, Millington, Tennessee.

During preparation of this plan, EnSafe reviewed reports related to groundwater investigations, Resource Conservation and Recovery Act (RCRA) Facility Investigations (RFIs), underground storage tank (UST)-related investigations and monitoring programs, and NSA Mid-South records to determine how many permanent or temporary groundwater monitoring wells have been installed at NSA Mid-South. Based on this research, EnSafe determined that 485 wells and piezometers have been installed over the years. Of these, 271 wells have since been closed and 214 monitoring wells remain open. Available boring and well construction logs are in Appendix D.

According to the original E/A&H plan, 119 wells had been installed at NSA Mid-South and 113 of them were field-located. Seventeen of these wells were closed in accordance with the original plan or as part of tank system closures. The six not field-located were leak detection wells that are believed to have been removed with their associated tank systems. Four former production wells identified in the original plan were not included in the 119 well count; they were closed during a well upgrade in 1985. Four wells installed in 1994 following a petroleum spill at the Building S-362 Training Mock-Up Facility were not identified when the original well management plan was completed. These wells were incorporated into the SWMU 65 RFI and have since been closed.

In addition to the 119 wells identified in the original plan, E/A&H installed RFI- and UST-related monitoring wells in 1995 and 1996. EnSafe installed additional RFI and UST monitoring wells from 1997 to 1999, and seven more wells for the Area of Concern (AOC) A Corrective Measures Study (CMS) in 2000 and 2001. In August 1999, the U.S. Geological Survey (USGS) installed one monitoring well (002G17UA) offsite at SWMU 2. As part of a pilot scale remediation system, Parsons Engineering Science installed 24 wells on the airfield apron near the former N-6 hangar in 2000. In 2002, EnSafe installed three, eight, and four additional wells at SWMUs 14, 15, and 39, respectively, to support CMS's. In 2004, EnSafe installed 15 wells at AOC A, seven wells at SWMU 14, and nine wells at SWMU 39 to support interim measures. Overview site maps

(Northern and Southern Sections) located in Appendix C show the location and status (open or closed) of each well. Section 3 of this plan provides a brief description of well site locations.

This plan includes a database with information on well configuration, date of installation, state plane coordinates, wellhead elevation, etc. This database is included as Appendix A and is provided electronically on a CD in database (\*.DBF), Access (\*.MDB) and Excel (\*.XLS) formats.

## **2.0 WELL INSPECTION CRITERIA AND MAINTENANCE PROCEDURES**

Each NSA Mid-South well must comply with the following applicable or relevant and appropriate requirements:

- Southern Division, Naval Facilities Engineering Command, *Guidelines for Groundwater Monitoring Well Installations*; Naval Energy and Environmental Support Activity *Groundwater Monitoring Guide*, NEESA 20.2-031A, February 1985
- Rules of the Tennessee Department of Environment and Conservation (TDEC), Division of Water Supply, Chapter 1200-4-10 *Well Construction and Abandonment Standards*
- Memphis-Shelby County Health Department (MSCHD) *Shelby County Well Construction Code*

Relevant sections of these documents are included as Appendix B.

### **2.1 Inspection**

Under the original plan, each monitoring and leak detection well was inspected using standard criteria. The general condition, the wellhead condition, the well annulus condition, and well construction specifications were assessed. Target inspection items are listed in Table 2-1. Wellhead conditions were ranked as:

- 1) Good
- 2) Minor damage
- 4) Moderate damage
- 5) Severe damage

A rating of good indicates that there is no damage associated with the well. Minor damage rating would include such things as cracked or broken well caps, rusted locks, and peeling paint. Moderate damage includes broken hinges on pro cover, broken manhole cover or stripped bolts on flush mount wells, cracked or broken concrete pads or protective posts out of ground. Severe damage includes well head and concrete pad pulled from or shifted on ground (heavy equipment running into it), broken well pipe riser, or clogged/collapsed well. The routine inspection of each well should use the Groundwater Monitoring Well Inspection Form shown in Figure 2-1.

**Table 2-1  
 Monitoring Well Specifications  
 (Target Inspection Items)**

<b>Above-Grade Mounts:</b>	<b>Flush-Grade Mounts:</b>
Well pad: Condition Size (4' x 4' x 0.5' )	Well pad: Condition Size (2' x 2' x 0.5')
Wellhead/Security Casing: Condition Brass, keyed-alike locks Leak-resistant well cap (Hex-key type) Paint — condition and color (high-visibility yellow epoxy AASHTO <sup>a</sup> — M220)	Wellhead/Manhole cover: Condition Leak-resistant well cap (Hex-key type) 22-gauge steel, load-bearing Bolt down Gasket condition Labeled — "Monitoring Well — Do Not Fill"
Guard post: Condition Number (four required) <sup>b</sup> Cement filled	Guard post: Not applicable
<b>Well Annulus:</b> Riser pipe: Condition (at surface and above grade) Total depth: Well open to reported construction depth	<b>Well Data:</b> Water level Headspace-organic vapor concentration Odor Significant sediment accumulation

**Notes:**

- <sup>a</sup> — American Association of State Highway and Transportation Officials, SOUTHDIV specifications.
- <sup>b</sup> — Well cluster may have less than four guard posts per well for protection if the wells are closely placed.

**2.2 Maintenance**

Well inspections shall be conducted twice a year to ensure that well caps, locks, and manhole gaskets are functioning properly. The rubber bushing on the well caps may become damaged or break down with time, thus reducing the wellhead security. Additionally, locks may seize-up or become clogged. Locks may be cleaned or *lightly* lubricated with common products, such as WD-40, as long as contaminants do not enter the well.

Gaskets on manhole cover rims may become dirty, dried, cracked, or otherwise damaged, allowing rainwater runoff or other contaminants to enter the manhole and potentially the well. Bolts may become stripped over time, thus preventing a snug fit between the cover and gasket and allowing rainwater runoff or other contaminants to enter the manhole. These items must be replaced if they show signs of damage.

**Figure 2-1**  
**Example of Monitoring Well Inspection Form**

Groundwater Monitoring Well Inspection Form layout:

<b>NSA Mid-South Northside Groundwater Monitoring Well Inspection Form</b>																		
Well ID	Inspector(s)	Date	Outer casing damaged		Cover sealing properly		Well cap sealing properly		Concrete pad damaged		Well cover missing bolts		Well Head Condition Rating			Corrective Action Conducted During Inspection	Corrective Action Conducted After Inspection	Comments
			NO	Yes	Yes	NO	Yes	NO	NO	Yes	NO	Yes	Good	Minor Damage	Severe damage			
003G02LF																		
003G04LF																		
003G05MF																		
003G06UF																		
005G03UF																		
005G04UF																		
005G05LF																		
005G08LF																		
007G01LF																		
007G01UC																		
007G01UF																		

- Column 1 — Well Identification Name, Inspector(s) Name and Date.
- Column 2 — Outer Casing Damage — Yes or No.
- Column 3 — Cover Sealing Properly — Yes or No
- Column 4 — Well Cap Sealing Properly — Yes or No
- Column 5 — Concrete Pad Damage — Yes or No
- Column 6 — Well Cover Missing Bolts — Yes or No (flush-mount wells only)
- Column 7 — Wellhead Condition Rating — Good, Minor Damage, Severe Damage
- Column 8 — Corrective Action Conducted During Inspection
- Column 9 — Corrective Action Conducted After Inspection
- Column 10 — Comments

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### **2.3 Contingencies**

The Environmental Division of NSA Mid-South Public Works must be notified immediately if a damaged well is discovered by NSA personnel. If a well becomes damaged or does not adequately protect the wellhead, it should be repaired as soon as practical. Immediate action may be required to prevent further damage or to prevent surface water, rainwater, or contaminants from entering the well casing. Failure to protect the wellhead and the associated water unit may result in fines from the MSCHD and/or TDEC.

### **2.4 Well Repairs/Closures**

Under current *Shelby County Well Construction Codes* (August 2001), major well repair, closure, or significant modification requires a permit. The codes do not have a "grandfather" provision for unpermitted wells installed before 1988, when the well codes were established. A permit application may be acquired from the MSCHD, Pollution Control Division, Groundwater Division, 814 Jefferson Avenue, Memphis, Tennessee 38105, or by calling (901) 576-7775.

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### 3.0 WELL BACKGROUND INFORMATION

This section describes the different well classes (types) and their associated geological formations, summarizes NSA Mid-South geology, and briefly discusses the origin of NSA Mid-South wells.

#### 3.1 Well Classification

Wells are classified in one of four categories:

- Monitoring Wells — installed for site investigations to assess groundwater quality
- Leak Detection Wells — installed in UST tank pits to monitor for product release
- Potable Wells — drinking water supply wells
- Other Wells — non-potable water supply wells

Wells are sub-classified based on the geologic formation in which they are screened:

- Loess — LS
- Alluvium — lower (LA) and upper (UA)
- Fluvial Deposits — lower (LF), middle (MF), or upper (UF)
- Cockfield Formation — upper (UC)
- Memphis Sand — (production wells)
- Fort Pillow Sand, Wilcox Group — (production wells)
- Tank Pit — Fill dirt (leak detection wells only)

Available boring and well construction logs are in Appendix D.

#### 3.2 NSA Mid-South Geology

A conceptual model of NSA Mid-South hydrogeology is presented in the *Hydrogeology of Post-Wilcox Group Stratigraphic Units in the Area of the Naval Air Station Memphis, Near Millington, Tennessee* (Kingsbury and Carmichael, 1995). The hydrogeology of NSA Mid-South is summarized below.

The two principal stratigraphic units investigated during RFIs and UST EAs at NSA Mid-South are the loess/alluvium and fluvial deposits. The loess — eolian deposits consisting of silt, silty clay, clay, and minor amounts of sand — is the principal unit occurring at land surface throughout NSA Mid-South. Alluvium, which is restricted to stream valleys, includes alleviated or reworked loess. The loess is typically 0 to 65 feet thick in the Memphis area; at NSA Mid-South it ranges

from 15 to 45 feet thick. Water-bearing zones are present primarily in the upper part of the loess (between 5 and 15 feet); however, yields are low and water quality does not meet several primary and secondary drinking water standards including turbidity, iron, and manganese. The fluvial deposits, which underlie the loess in upland areas, consist of sand, gravel, and some clay, with thin layers of ferruginous sandstone and conglomerate at the base. This unit ranges from 0 to 100 feet thick in the Memphis area. At NSA Mid-South, it ranges from 10 to 35 feet thick and represents the most significant component of the surficial aquifer. Many shallow domestic wells in rural areas surrounding Memphis have been completed in the fluvial deposits.

Below the fluvial deposits are the Cockfield Formation and the Cook Mountain Formation of the Jackson-Upper Claiborne confining unit. The Cockfield is a heterogeneous formation of very fine silty sand interbedded with clay and silt lenses or clay with interbedded fine sand lenses. Water-bearing sands are present in the upper Cockfield Formation. Below the Cockfield is the Cook Mountain Formation, which is predominantly clay and silty clay. It is considered a principal regional confining unit between the surficial water-bearing zones and the underlying aquifers. The lower portion of the Claiborne Group is the Memphis Sand, which is made up of sand, clay, and minor amounts of lignite. The Memphis Sand aquifer is one of the primary drinking water aquifers in the Memphis area. Two NSA Mid-South potable water supply wells (PW-N1 and PW-N2) have drawn from the Memphis Sand aquifer since the 1940s.

The Wilcox Group underlies the Claiborne Group and consists of the Flour Island Formation and the Fort Pillow Formation. The Flour Island is a confining unit separating the Memphis Sand and Fort Pillow aquifers. The Fort Pillow aquifer is a regional drinking water source. Three production wells at NSA Mid-South pump potable water from the Fort Pillow aquifer: PW-N3, PW-N4, and PW-N5.

### **3.3 Well Sites and Origins**

Site descriptions are based on well origin: RFIs, UST EAs, leak detection wells, and miscellaneous wells. At some sites, particularly RFI Sites 5 and 7, several well types are present within larger RFI site boundaries. For this reason, they are listed under each site category. This practice produces redundant RFI and UST site information, but is necessary for future plan users to be able to properly identify similar wells or well types in the field.

Monitoring wells were installed during RFIs or UST EAs to assess groundwater impacts related to known or suspected releases of regulated materials or wastes. Leak detection wells were installed

to monitor UST systems for product leaks. Potable wells were installed to supply drinking water to the base. Two non-potable supply wells were installed for irrigation or other non-potable needs.

### 3.3.1 RFI-Related Monitoring Wells

Under RCRA, 52 of 67 solid waste management units (SWMUs) and one AOC were identified for investigation at NSA Mid-South. Under a Verification Study (VS) by Geraghty & Miller (G&M) in 1984 and 1985, 12 monitoring wells were installed at four of the RCRA sites. E/A&H initiated a series of RFIs in 1995 and 1996 during which the 52 SWMUs were divided into eight assemblies (A through H). The Northside fluvial deposits groundwater was designated AOC A when it became apparent there were multiple co-mingled plumes of various origins on the NSA Mid-South Northside. Monitoring wells associated with a number of different SWMUs were used to evaluate AOC A; therefore, there are no monitoring wells with a AOC A identification. The majority of the AOC A wells resulted from an expansion of the SWMU 7 RFI and consequently have a SWMU 7 identification.

The USGS installed four wells adjacent to Building 1698 (near SWMU 40) for long-term monitoring of water levels. Three were installed in April 1995 and screened in the loess, lower fluvial deposits, and the Cockfield Formation. In August 1995, one additional well was installed and screened in the upper fluvial deposits. While these wells were not installed as part of the SWMU 40 investigation, they were sampled to support that investigation. Water-level data from these wells were used to assist USGS in developing a conceptual model of basewide hydrogeology in support of the overall RFI. In September 2005, these four wells were abandoned.

Table 3-1 shows the number of wells currently present at each site by assembly. Site investigations at the Assembly D and G SWMUs have not warranted the installation of monitoring wells.

**Table 3-1**  
**Existing RFI Monitoring Wells and Piezometers**

Assembly	Site	Alluvium	Loess	Fluvial <sup>a</sup>	Cockfield	Total
<b>Assembly A</b>	SWMU 3	0	0	0	0	<b>0</b>
	SWMU 5	0	0	2	0	<b>2</b>
	SWMU 7	0	0	89 <sup>b</sup>	1	<b>90</b>
	SWMU 8	0	0	0	0	<b>0</b>
	SWMU 60	0	0	0	0	<b>0</b>
	SWMU 66	0	0	0	0	<b>0</b>

**Table 3-1**  
**Existing RFI Monitoring Wells and Piezometers**

Assembly	Site	Alluvium	Loess	Fluvial <sup>a</sup>	Cockfield	Total
<b>Assembly B</b>	SWMU 40	0	0	0	0	<b>0</b>
<b>Assembly C</b>	SWMU 15	0	3	8	0	<b>11</b>
	SWMU 18	0	0	1	0	<b>1</b>
	SWMU 21	0	0	4	0	<b>4</b>
<b>Assembly E</b>	SWMU 2	24	0	0	0	<b>24</b>
	SWMU 9	0	0	0	0	<b>0</b>
	SWMU 14	0	15	4	0	<b>19</b>
	SWMU 59	0	0	0	0	<b>0</b>
	SWMU 65	0	0	0	0	<b>0</b>
<b>Assembly F</b>	SWMU 20	0	0	0	0	<b>0</b>
	SWMU 39	0	0	24	0	<b>24</b>
<b>Assembly H</b>	SWMU 41	0	0	0	0	<b>0</b>
<b>Background</b>	BG	0	0	3	0	<b>3</b>
<b>Parsons</b>	PES	0	0	24	0	<b>24</b>
<b>USGS</b>	USGS	0	0	0	0	<b>0</b>
<b>Total</b>		<b>24</b>	<b>18</b>	<b>159</b>	<b>1</b>	<b>202</b>

**Notes:**

- a — Includes AOC A pilot study injection and extraction wells at SWMU 7 and Parsons sites.
- b — Includes two lower fluvial deposits wells at N-12 (N12G01LF and N12G02LF).

**3.3.1.1 Assembly A**

Assembly A consists of eight SWMUs: 1, 3, 5, 7, 8, 60, 66, and 67. Monitoring wells were installed at all of these SWMUs, except SWMUs 1 and 67.

**SWMU 3 (N-121 Plating Shop Dry Well)** Building N-121 was a metal-plating shop that operated from the early 1950s to the early or mid-1970s. Wastes from this plating shop were disposed of in a dry well (10' x 10' x 6' pit filled with gravel) on the south side of the building, adjacent to Casablanca Street. This dry well was removed in September 1996.

Three monitoring wells were installed by G&M during the 1985 VS. During an RFI at SWMU 3 in early 1995, E/A&H installed eight additional RFI monitoring wells, which were screened in either the loess or fluvial deposits. All of the monitoring wells at SWMU 3 have since been abandoned. Locations of the former monitoring wells at SWMU 3 are shown on the overview map (Northern Section) in Appendix C.

**SWMU 5** (*Aircraft Fire-Fighting Training Area [AFFTA]*) The fire-fighting training area operated from 1949 until its closure in October 1996. RFI and UST EA monitoring wells and leak detection wells have been installed at SWMU 5 over the years. During a UST EA completed by E/A&H in 1992, 11 monitoring wells were installed in the loess. E/A&H installed 14 additional monitoring wells onsite in a 1995 RFI, and incorporated the existing UST EA wells into the investigation. Seven RFI wells were screened in the loess and seven were screened in the upper fluvial deposits. Two of the fluvial wells (005G4AUF and 005G4BUF) were installed alongside 004G04UF as part of a rotasonic drilling demonstration and were closed shortly thereafter. A lower fluvial well was added in 1998. Sixteen (15 loess and one fluvial) of 26 monitoring wells have been closed, including well 005FF08LS, which was abandoned in December 1997 to facilitate a Voluntary Corrective Action (VCA) conducted by the Navy. Following the VCA, the USGS installed a 4-inch diameter replacement well to determine the effectiveness of the soil removal and to serve as a recovery well.

The TDEC and USEPA approved a request for site closure for SWMU 5's loess soil and groundwater in 2003. In September 2005, the SWMU 5 monitoring wells were abandoned with the exception of two monitoring wells, 005G04UF and 005G08LF. These two wells are monitored as part of the long-term groundwater monitoring program for AOC A. Figure 3-1 shows the locations of active and closed wells associated with SWMU 5.

**SWMU 7** (*N-126 Plating Shop Dry Well*) SWMU 7 had a dry well associated with a plating shop which operated from 1955 to 1978 in hangar N-126. Plating wastes are reported to have been piped to the dry well outside, near the southeast corner of the hangar. G&M installed a middle fluvial deposits monitoring well through the dry well during the VS in 1985. The monitoring well was abandoned in June 1996 and the dry well was removed in September 1996. E/A&H installed 43 RFI wells at SWMU 7 and the airfield apron area from February 1995 to March 1996. From 1997 to mid-1999, EnSafe installed an additional 47 RFI wells and piezometers as part of the AOC A investigation, which extended the original SWMU 7/airfield apron investigation area beyond the main runway and past the northwestern base boundary. Wells at the first nine locations were installed in clusters of four and screened in the loess, upper fluvial deposits, lower fluvial deposits, and the upper Cockfield Formation. With the exception of three loess wells (007G37F1, 007G37L1, and 007G37L2) installed for an aquifer test, subsequent well installations focused on the upper and/or lower fluvial deposits based on sampling results. In the latter stages of the investigation, some wells were screened in the middle fluvial deposits and others were screened throughout the entire thickness of the fluvial deposits.

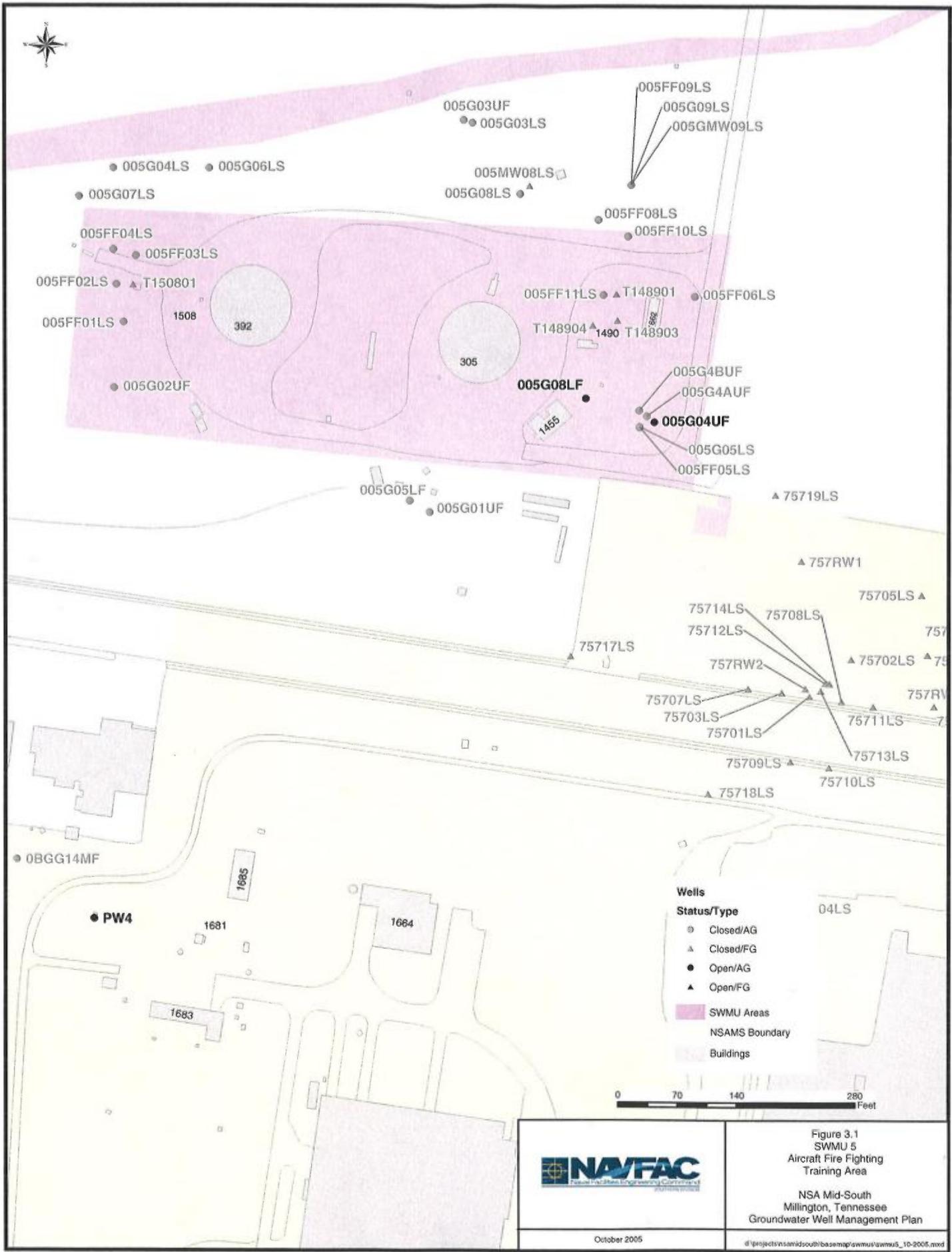
In 1996, two lower fluvial deposits monitoring wells (N12G01LF and N12G02LF) were installed adjacent to Building N-12 and production well (PW-N1) respectively, to assess the possible impact on PW-N1 of suspected chlorinated solvent releases from activities associated with Building N-12, a former print shop.

Two monitoring wells (007G58LF and 007G59LF), two injection wells (007G60LF and 007G61LF) and one extraction well (007G57LF) were installed in December 1999 for an enhanced bio-remediation pilot study conducted by EnSafe. In August of 2000, two additional wells monitoring wells (007G62LF and 007G63LF) were installed as part of the system.

A second pilot study was conducted by Parsons Engineering Science to evaluate the feasibility of using vegetable oil injection to remediate a portion of the AOC A groundwater plume, specifically the area of higher chlorinated solvent contamination in the vicinity of monitoring wells 007G15UF and 007G15LF near the former N-6 hanger. Eight injection (four upper and lower fluvial pairs) and 16 monitoring (eight pairs) wells were installed in the former N-6 area in August 2000. The 10-foot-long injection well screens were staggered so that the vegetable oil zone of influence would extend vertically from 45 to 85 feet below land surface and approximately 60 feet laterally. Additional well installation details are provided in the *Final Work Plan for Field Application to Enhance In Situ Bioremediation of Chlorinated Solvents via Vegetable Oil Injection at Site N-6, Former Naval Support Activity Mid-South, Millington, Tennessee* (Parsons, 2000).

In April 2004, 15 monitoring wells (007G64LF through 007G78LF) were installed in support of an interim measures corrective action at AOC A. In September 2005, 13 SWMU 7 monitoring wells located in areas outside of the solvent plume or screened in the Cockfield Formation were abandoned. A total of 26 wells at SWMU 7 have been closed to date. Figures 3-2a, 3-2b, and 3-2c show the locations of active and closed wells associated with SWMU 7 and AOC A.

**SWMU 8 (Cemetery Disposal Area)** SWMU 8 was a hazardous materials disposal area reported to have operated from 1965 to 1980. It is adjacent to the northern end of the main runway (Runway 4-22), and north of Chamberlayne Cemetery. In 1985, G&M installed three fluvial deposits wells during the VS. In early 1995, E/A&H installed four RFI fluvial deposits wells. Two of the G&M wells (008GMW10 and 008GMW12) were closed in November 1995 by E/A&H. Three loess wells were installed during the RFI, but closed within a few weeks because they produced no groundwater. After transfer of the property to the Millington Municipal Airport Authority, two additional wells (008G01FL and 008GMW11) were abandoned in



- Wells**
- Status/Type**
- Closed/AG
  - ▲ Closed/FG
  - Open/AG
  - ▲ Open/FG
- SWMU Areas
- NSAMS Boundary
- Buildings

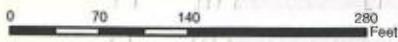


Figure 3.1  
SWMU 5  
Aircraft Fire Fighting  
Training Area

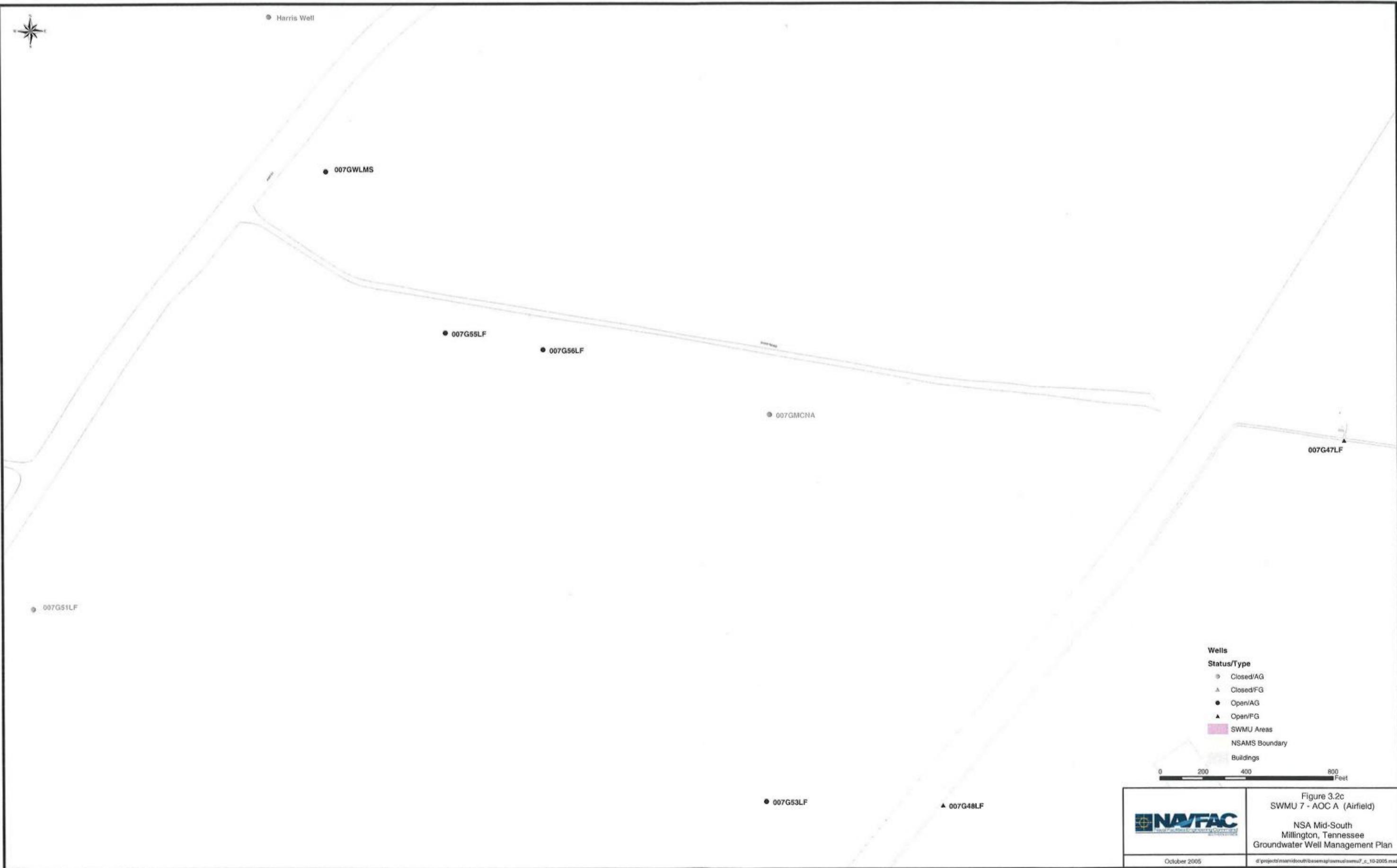
NSA Mid-South  
Millington, Tennessee  
Groundwater Well Management Plan

October 2005

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**Wells**  
**Status/Type**  
 ● Closed/AG  
 ▲ Closed/FG  
 ● Open/AG  
 ▲ Open/FG  
 SWMU Areas  
 NSAMS Boundary  
 Buildings

0 200 400 800 Feet

	Figure 3.2c SWMU 7 - AOC A (Airfield)
	NSA Mid-South Millington, Tennessee Groundwater Well Management Plan
October 2005	d:\projects\midsouth\basemap\swmu7_e_10-2005.mxd

January 1998 during a grading project. In November 1999, the three remaining monitoring wells were grouted in place by EnSafe in accordance with MSCHD guidance. Locations of the former monitoring wells at SWMU 8 are shown on the overview map (Northern Section) in Appendix C.

**SWMU 60** (*Northside Landfill – Western Portion*) SWMU 60 is reported to have been used primarily for disposal of demolition debris. The landfill was apparently active between 1951 and 1986. SWMU 60, which is in the southwest portion of the NSA Mid-South Northside, is bounded on the south by Dakar Street, on the west by Outlet Road, to the east by an unpaved perimeter road, and on the north by abandoned Illinois Central Railroad spurs. E/A&H installed 10 monitoring wells during an RFI in early 1995; however, three wells (060G01LS, 060G01LF, and 060G05LS) were closed to facilitate a Voluntary Corrective Action conducted by the Navy in December 1997. Five more monitoring wells (060G02LS, 060G03LF, 060G03LS, 060G04LS, and 060G06LS) were closed in November 1998, and the remaining two monitoring wells (060G02LF and 060G04LF) were closed in September 2005. Locations of the former monitoring wells at SWMU 60 are shown on the overview map (Northern Section) in Appendix C.

**SWMU 66** (*Radar Disposal Area*) SWMU 66 was used by the Morale, Welfare, and Recreation as a debris disposal area for an unknown period of time. SWMU 66, which is in the northeast portion of the NSA Mid-South Northside, is bounded on the west by an abandoned runway, to the north by an abandoned radar facility, and to the east by pasture. As part of the investigation at SWMU 66, one monitoring well (066G01LF) was installed by EnSafe in May 1998 and has since been abandoned. This monitoring well location is shown on the overview map (Northern Section) in Appendix C.

### **3.3.1.2 Assembly B**

Assembly B includes SWMU 40 Salvage Yard No. 1, where four monitoring wells, abandoned in September 2005, existed: USGS01LS, USGS02LF, USGS03UC, and USGS04LF. These wells were installed by the USGS to gather hydrological data, but were sampled during the SWMU 40 RFI. Locations of the former USGS monitoring wells are shown on the overview map (Northern Section) in Appendix C.

### **3.3.1.3 Assembly C**

Assembly C includes SWMUs 15, 18, 21, 26, 27, and 62. These SWMUs required Confirmatory Sampling Investigations (CSIs) to verify whether releases had occurred and, if so,

whether RFI characterization was necessary. No monitoring wells were installed at SWMUs 26, 27, or 62.

**SWMU 15** (*N-94 Underground Tank Farm*) SWMU 15 which was southwest of Building N-94, consisted of ten 10,000- to 25,000-gallon USTs that stored aviation gasoline and lubricating oil. The USTs were in service from 1943 until they were abandoned in 1986. They were removed in early 1992 under the Navy's UST program. Eight fluvial deposits monitoring wells (015G01LF, 01UF, 02LF, 02UF, 03LF, 03UF, 04LF, and 04UF) were installed by E/A&H in 1996 during a follow-up RFI. Seven loess and one upper alluvial wells (015G01LS, 02LS, 03LS, 04LS, 05LS, 06UF, 07LS, and 08LS) were installed in April 2002 for the CMS. The upper alluvial well (015G06UF) was abandoned later in 2001, and six wells (015G01LS through 015G05LS and 015G07LS) were closed in 2003. Following a contaminated soil removal action, two recovery wells (015GRW01 and 015GRW02) were installed by Solutions to Environmental Problems Inc. within the backfilled area. Figure 3-3 shows monitoring well locations for SWMU 15.

**SWMU 18** (*N-112 Underground Waste Tank*) SWMU 18 was an underground waste storage tank for the Building N-112 (Ground Support Equipment Shop) area. The tank and contaminated soil were removed on September 6, 1996, during a VCA conducted by the Navy. The VCA provided evidence of a past release from this tank and an RFI was performed. As part of the RFI, one well (018G01LF) was installed on April 13, 1999, and screened in the fluvial deposits. Groundwater contamination at SWMU 18 has been incorporated into the AOC A Corrective Measures Study. Figure 3-4 shows well location at SWMU 18.

**SWMU 21** (*N-10 Underground Waste Tank*) SWMU 21, a 3,000-gallon UST near Building N-9, collected waste oil and hydraulic fluid from an automobile repair and aircraft maintenance shop. It was installed in 1943 and removed in November 1991. Four fluvial deposits monitoring wells (021G01LF, 02LF, 03LF, and 04UF) were installed by E/A&H in 1996 as part of the RFI. Groundwater contamination at SWMU 21 has been incorporated into the AOC A Corrective Measures Study. Figure 3-4 shows the monitoring well locations at SWMU 21.

#### **3.3.1.4 Assembly E**

Assembly E includes SWMUs 2, 9, 14, 38, 59, and 65, which required full RFI characterization. Monitoring wells were installed at each Assembly E SWMU, except SWMU 38 (drainage ditches).

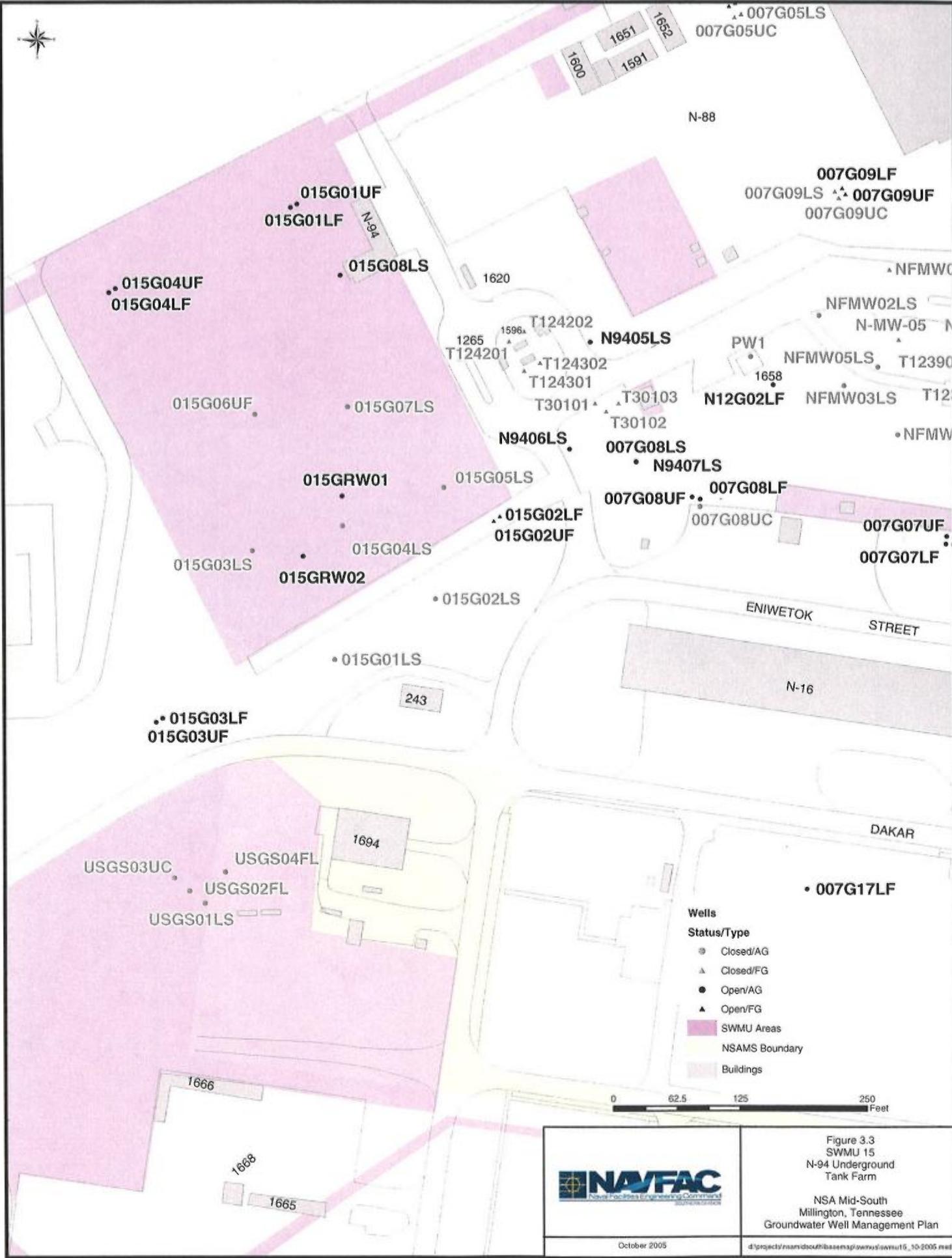
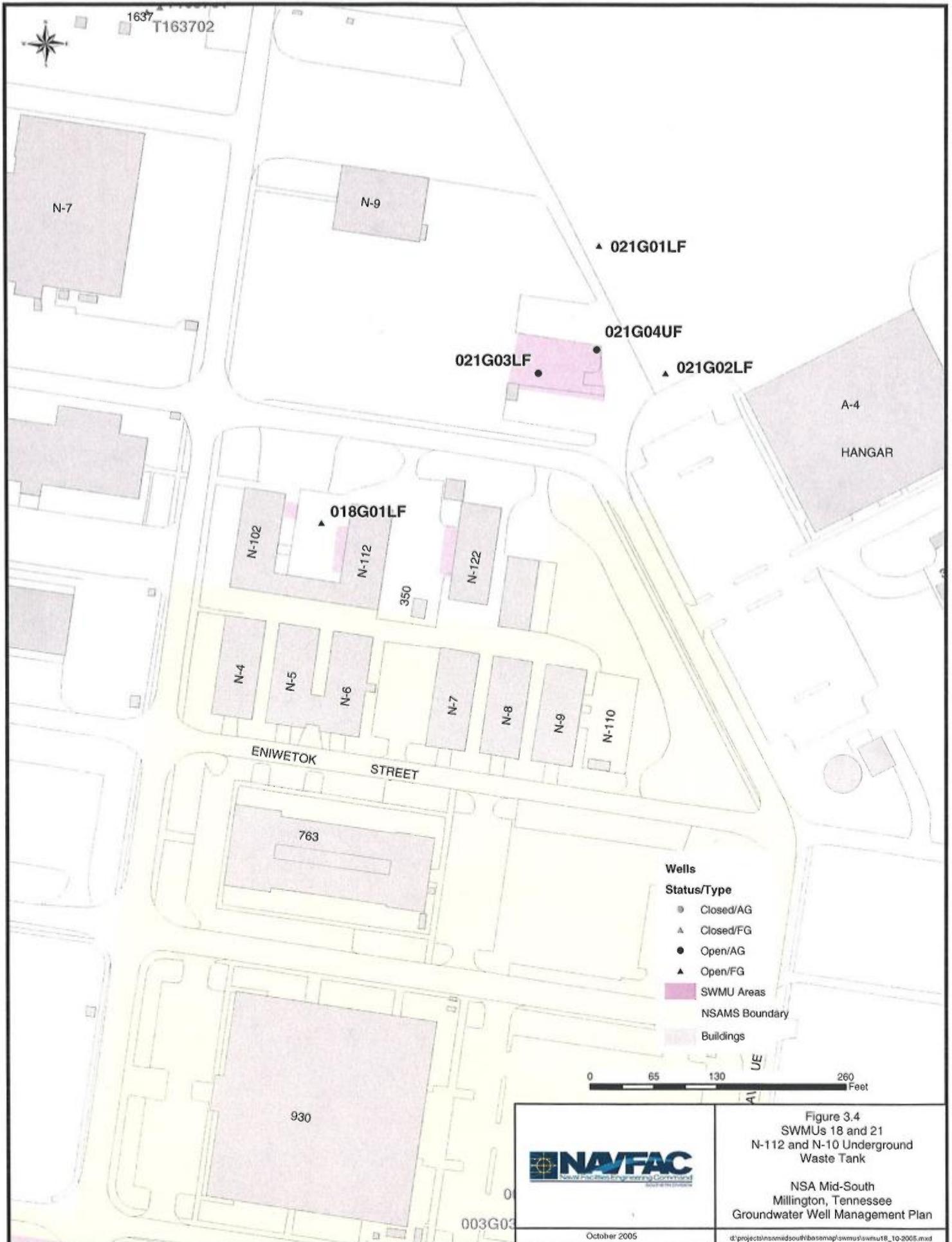


Figure 3.3  
SWMU 15  
N-94 Underground  
Tank Farm  
  
NSA Mid-South  
Millington, Tennessee  
Groundwater Well Management Plan



- Wells**
- Status/Type**
- Closed/AG
  - ▲ Closed/FG
  - Open/AG
  - ▲ Open/FG
  - SWM Areas
  - NSAMS Boundary
  - Buildings

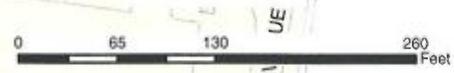


Figure 3.4  
 SWMUs 18 and 21  
 N-112 and N-10 Underground  
 Waste Tank

NSA Mid-South  
 Millington, Tennessee  
 Groundwater Well Management Plan

October 2005

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**SWMU 2** (*Southside Landfill*) SWMU 2 operated from 1942 to 1970 at the southeast corner of NSA Mid-South, adjacent to Big Creek Drainage Canal. G&M installed five monitoring wells (002GGM01DA, 02DA, 03DA, 04UA, and 05DA) during the VS. E/A&H installed 27 additional monitoring wells (002G01DA, 01UA, 02DA, 02UA, 03DA, 03UA, 04UA, 05DA, 05UA, 06DA, 06UA, 07UA, 08DA, 08UA, 09DA, 09UA, 10DA, 10UA, 11DA, 11UA, 12DA, 12UA, 13DA, 13MA, 13UA, 14DA, and 14UA), which were screened in the alluvium during the RFI in 1996. EnSafe installed nine more wells (002G15DA, 16DA, 17DA, 17UA, 18DA, 19DA, 20DA, 22DA, and 23DA) south of the Big Creek Drainage Canal in June 1998. In October 1998, monitoring well 002GM01DA (GM-1) was abandoned due to a U.S. Army Corps of Engineers' levee construction project. In August 1999, the USGS installed one additional offsite monitoring well (002G17UA). In June 2001, five additional monitoring wells (002G24DA, 25DA, 26DA, 27DA, and 28DA) were installed along Big Creek, to further evaluate whether contaminants were migrating offsite.

In September 2005, 22 monitoring wells were abandoned following approval by the BCT. These wells were located outside of the solvent plume in the southeast corner of the former landfill. However, several wells outside of the solvent plume were retained for potential future monitoring of the landfill. Figure 3-5 and the overview map (Southern Section) in Appendix C show the well locations.

**SWMU 9** (*Sewage Lagoons*) SWMU 9 consists of two sewage lagoons on the southern boundary of the NSA Mid-South Southside, approximately 175 feet south of the Big Creek Drainage Canal and 200 feet west of the South Gate. The lagoons were once part of the base wastewater treatment system. The system primarily treated domestic wastewater, but reportedly did receive limited industrial wastewater from aircraft maintenance facilities. The lagoons were operated from 1969 until 1978, when the base connected its sewer system to the City of Millington's sewage treatment system. Four RFI wells (009G01LF, 02LF, 03LF, and 04LF), screened in the alluvium, were closed in September 2005. Locations of the former SWMU 9 monitoring wells are shown on the overview map (Southern Section) in Appendix C.

**SWMU 14** (*Building S-140 Site and Seventh Avenue Ditch*) SWMU 14 contained a paint spray booth, a paint removal area, and a paint wash-down area used to train Navy personnel in painting processes. It operated from 1943 until the building was demolished in 1985. Nine monitoring wells were installed during the RFI; five were screened in the loess and four were screened in the fluvial deposits. In April 2002, three additional loess wells were installed as part of the monitored natural attenuation treatability study. In January 2004, seven loess wells were

installed to support an interim measures corrective action. Figure 3-6 shows the monitoring well locations for SWMU 14.

**SWMU 59** (*Pesticide Storage Facility [Old Pesticide Shop]*) SWMU 59 stored pesticides and fertilizers. The age of the facility is unknown. Four monitoring wells (059G01LS, 02LS, 03LS, and 03UF) were installed by E/A&H in 1996 during the RFI; three were screened in the loess and one was screened in the fluvial deposits. One well, 059G02LS, was closed during demolition of Building S-235 in the summer of 1998 to facilitate a VCA being conducted by EnSafe. In 2002, 059G01LS was damaged during construction activities; therefore, it was closed. The remaining two wells were closed in September 2005. Locations of the former SWMU 59 monitoring wells are shown on the overview map (Southern Section) in Appendix C.

**SWMU 65** (*Building S-362 [Training Mock-Up Site]*) SWMU 65 was used to train personnel in aircraft start-up. The site operated from the early 1950s until 1995. Four shallow alluvium monitoring wells (065MW01UA, 02UA, 03UA, and 04UA) were installed by Memphis Environmental Center (MEC) in November 1992 to investigate a JP-5 jet fuel spill at the site. Four additional monitoring wells (065G05UA, 06DA, 06UA, and 07UA) were installed in the alluvium by E/A&H in 1996 during the RFI. One alluvium monitoring well (065G05UA) and the four MEC wells were abandoned in November 1998. The remaining three wells were closed in September 2005. Locations of the former SWMU 65 monitoring wells are shown on the overview map (Southern Section) in Appendix C.

### **3.3.1.5 Assembly F**

Assembly F includes SWMUs 17, 19, 20, 22/63, 30, and 39. These SWMUs required CSIs to verify whether releases had occurred and, if so, whether RFI characterization was necessary. No monitoring wells were installed at SWMUs 17, 19, 22/63, or 30.

**SWMU 20** (*1594 Underground Waste Tank*) SWMU 20 was an abandoned underground waste tank reported to have received waste oil and hydraulic fluid generated by the Air Traffic Control School. The installation date of the tank, which was removed in May 1992, is unknown. As part of an ongoing RFI, three piezometers (PZ01, PZ02, and PZ03) in May 1998 and one monitoring well (020G0LF1) in April 1999 were installed. In September 2005, the three piezometers and monitoring well were closed. Locations of the former SWMU 20 monitoring wells are shown on the overview map (Southern Section) in Appendix C.



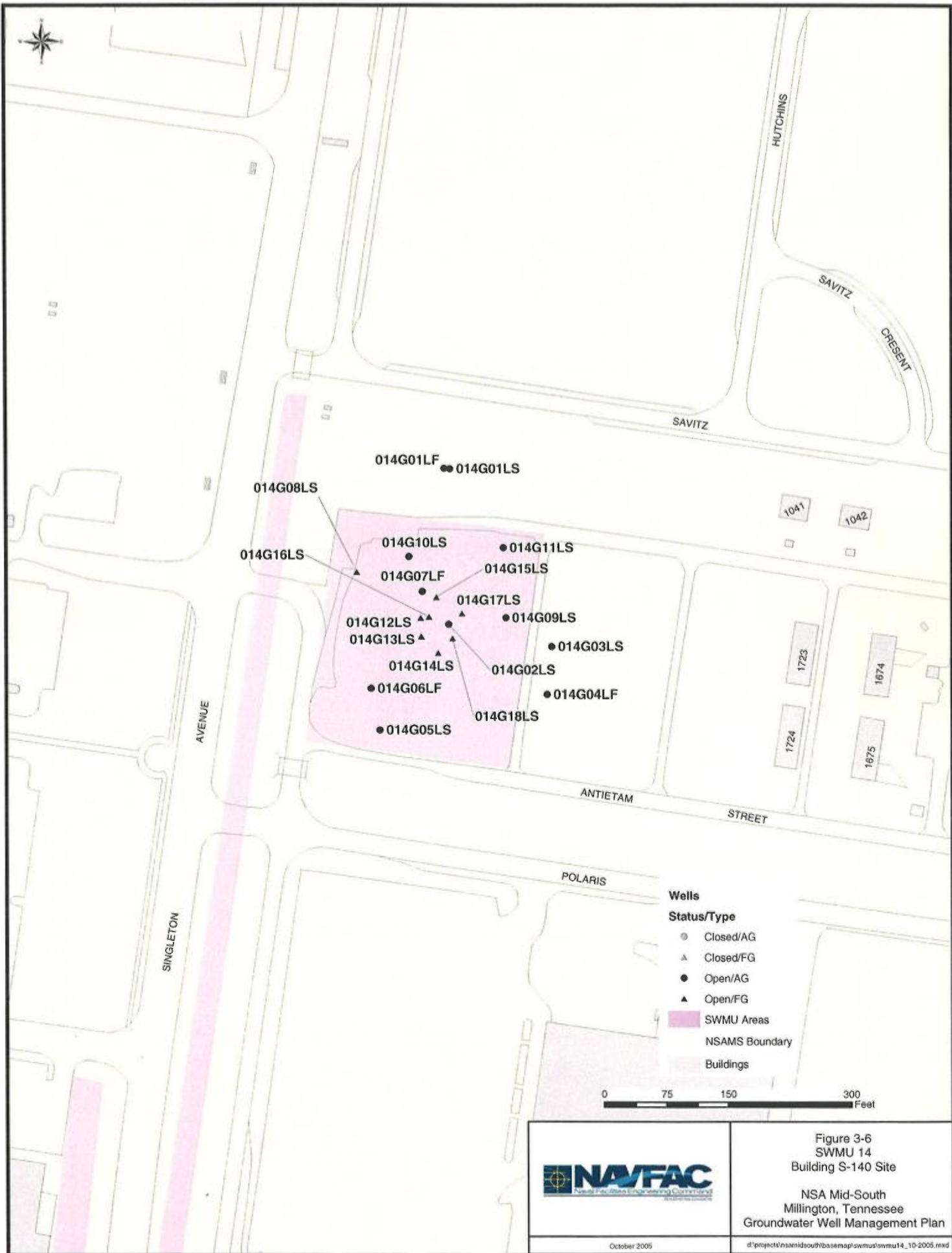


Figure 3-6  
 SWMU 14  
 Building S-140 Site

NSA Mid-South  
 Millington, Tennessee  
 Groundwater Well Management Plan



**SWMU 39** (*S-74 PCB Storage Area*) SWMU 39 consisted of a concrete slab outside of Buildings S-74 and S-212. Transformers and drums of oil were stored on the slab until Building S-74 was demolished in 1995. Building S-74 was built in 1943 and operated as a laundry facility until 1981. Building S-212 was built in 1947 and stored solvents used at Building S-74. As part of an ongoing RFI, five piezometers (039GPZ01, PZ02, PZ03, PZ04, and PZ05) (three in May 1998 and two in December 1998) were installed. Three of these piezometers have since been closed with only PZ-04 and PZ-05 still open. In March 1999, nine monitoring wells (039G01LF - 039G09LF) were installed as part of the investigation; in May 2002, four additional monitoring wells (039G10LF - 039G13LF) were installed for the CMS. In January 2005, nine wells were installed in support of an interim measures corrective action at the SWMU. All wells and piezometers are screened in the fluvial deposits. Figure 3-7 shows the location of monitoring wells and piezometers at SWMU 39.

#### **3.3.1.6 Assembly H**

Assembly H includes SWMUs 23, 24, and 41. These SWMUs required CSIs to verify whether releases had occurred and, if so, whether RFI characterization was necessary. No monitoring wells were installed at SWMUs 23 or 24.

**SWMU 41** (*Salvage Yard No. 2*) SWMU 41 is an approximately 5,700-square-yard asphalt-covered salvage yard used as a nonhazardous storage area. The salvage yard is reported to have been in operation since 1944. Although designated for nonhazardous storage, it may have received hazardous material. The yard was reported to have stored scrap metal, derelict equipment (planes, helicopters, etc.), tires, furniture, and batteries. Four monitoring wells (041G01DA - 041G04DA) screened in the alluvium were installed in April 1999 as part of the RFI. These wells were closed in September 2005 following site closure, which was granted in summer 2005. Locations of the former SWMU 41 monitoring wells are shown on the overview map (Southern Section) in Appendix C.

#### **3.3.2 RFI Background Wells**

Twenty-four background monitoring wells were installed at 14 locations around NSA Mid-South to establish ambient groundwater quality for the RFIs. The background wells were screened in either the loess, alluvium, upper fluvial deposits, lower fluvial deposits, or upper Cockfield Formation. Twenty-one of the wells have been closed (wells OBG05LF, OBG05UF, and OBG10UF remain). The background well sites are shown on the overview site maps (Northern and Southern Sections) located in Appendix C.

### 3.3.3 Leak Detection Wells

Seven NSA Mid-South sites have had leak detection wells. Four leak detection wells were installed at the Navy Exchange Service Station on Navy Road in 1987 by Professional Services Industries (PSI; formerly Pittsburgh Testing and Engineering). Engineering, Design, and Geosciences Group, Inc. (EDGE; currently Ogden Engineering and Environmental Services, Inc.), installed 37 leak detection wells at six UST sites between late 1989 and early 1990 as part of a UST upgrade program. All of these leak detection wells have been closed as a result of UST removals or closures. Table 3-2 lists each tank site and the number of leak detection wells formerly associated with them. Location of leak detection wells are shown on the overview site maps (Northern and Southern Sections) located in Appendix C.

**Table 3-2  
Leak Detection Wells**

UST Site Name	Closest Building	Tank Number	Closed Leak Detection Wells	Open Leak Detection Wells
<b>North Fuel Farm</b>	N-94	T301 <sup>a</sup>	3	0
	N-94	T1242 <sup>a</sup>	2	0
	N-94	T1243 <sup>a</sup>	2	0
	N-126	T304 <sup>a</sup>	2	0
	N-126	T1239 <sup>a</sup>	3	0
<b>JP-5 Fuel Farm</b>	339	T336 <sup>b</sup>	3	0
	339	T337 <sup>b</sup>	3	0
<b>Navy Exchange</b>	757	Unknown <sup>a</sup>	4	0
<b>Navy Flying Club</b>	374	T1205N <sup>a</sup>	2	0
	374	T1205S <sup>a</sup>	2	0
<b>Southside Service Station</b>	S-376	T1482 <sup>a</sup>	3	0
	S-376	T1249 <sup>a</sup>	2	0
<b>AFFTA</b>	1455	T1508 <sup>a</sup>	3	0
	1455	T1489 <sup>a</sup>	4	0
<b>Tank 1637</b>	774	T1637	3	0

**Notes:**

- a — Tank has been removed.
- b — Tank has been cleaned for non-potable water storage.

### 3.3.4 UST and Miscellaneous Investigations

Monitoring wells have been installed during environmental assessments at 10 UST sites at NSA Mid-South under TDEC UST Division regulations. While completing UST-related investigations at these sites, EnSafe, E/A&H, and other contractors have installed 76 monitoring wells screened in the loess. Table 3-3 summarizes the UST assessments.

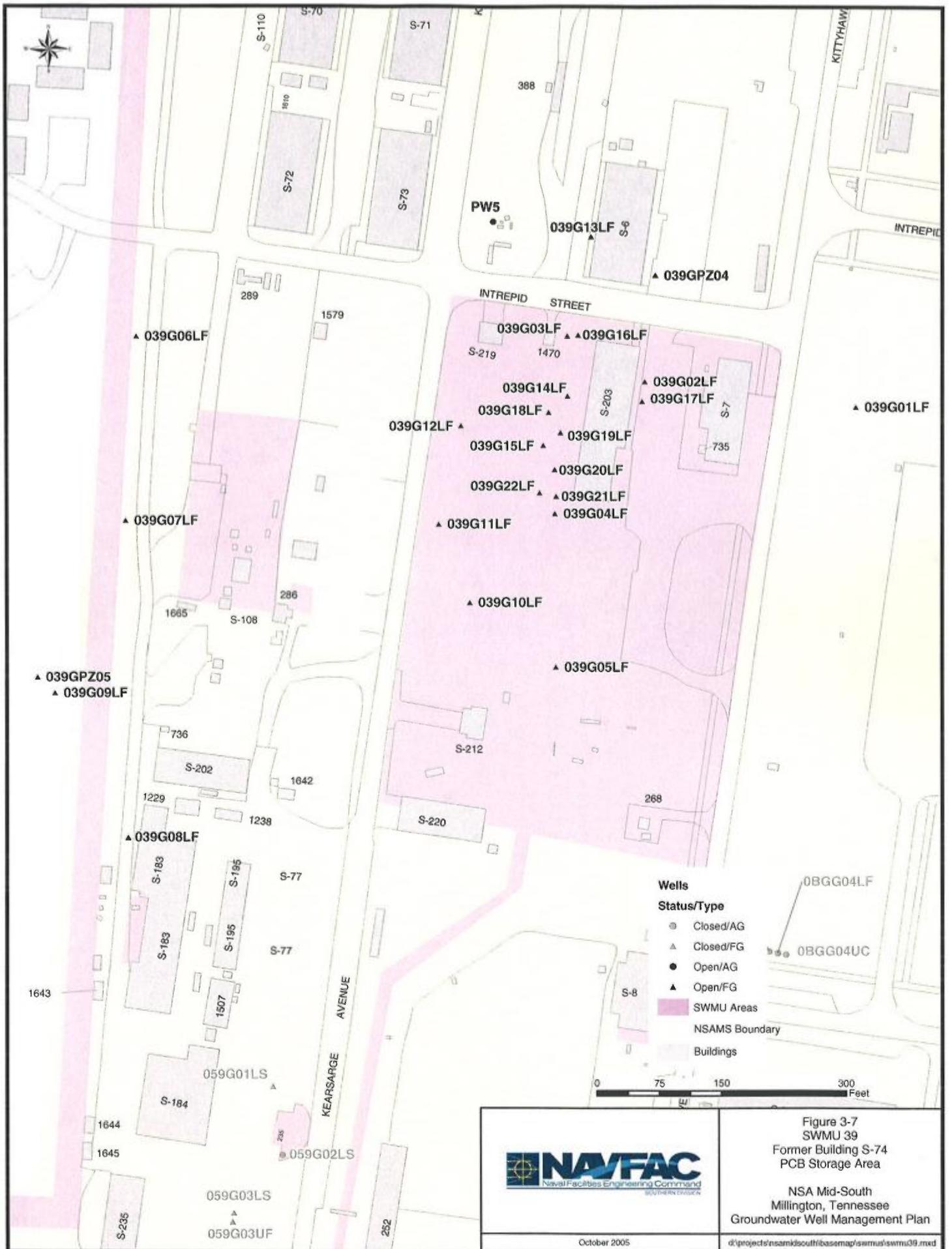


Figure 3-7  
SWMU 39  
Former Building S-74  
PCB Storage Area

NSA Mid-South  
Millington, Tennessee  
Groundwater Well Management Plan



**Table 3-3  
UST Environmental Assessments**

Site	Date mm/yr	Associated Tank(s)	Closed Monitoring Wells	Open Monitoring Wells	Related SWMUs
Navy Flying Club	05/93	T1205N, T1205S	6	0	None
N-126	05/93	T304, T1239	4	0	None
	07/94	T7, T303, T1241	7	0	
N-94	01/92	T301, T1242, T1243	0	3	7
AFFTA	07/92	T1489, T1508	11	0	5
	06/94				
Navy Hospital	05/92	T106, T107 (Not Regulated)	4	0	None
S-50	06/93	Not listed (Not Regulated)	5	0	None
S-376	07/92	T1249, T1482	4	0	None
Navy Exchange	02/86- 06/90	Unknown	22	0	None
S-237	09/92	T237	6	0	None
N-12	01/98	N-12	4	0	None

### **Navy Exchange (Building 757)**

Resulting from a petroleum release in 1996, several investigations have been completed at the Navy Exchange Service Station. Since 1986, 19 monitoring wells have been installed by three different contractors: PSI, Harding-Lawson Associates, and EDGe. In 2001, CH2MHill Construction Inc. installed three recovery wells in the gravel backfill following a contaminated soil removal corrective action. A search of the NSA Mid-South files and MSCHD records produced well construction logs for 21 of the 23 monitoring wells. Three monitoring wells (75702LS, 75712LS, and 75714LS) were closed in 2001 during the site's corrective action, and monitoring well 75715LS was closed at an unknown date. The remaining wells have been closed following site closure with the TDEC Division of Underground Storage Tanks. Former monitoring well locations are shown on the overview site map (Northern Section) located in Appendix C.

### **Navy Flying Club**

A UST EA was completed at the Navy Flying Club in May 1993 to investigate petroleum releases from two USTs (T1205N and T1205S). Six monitoring wells (FCMW01LS – FCMW06LS) were installed by E/A&H and screened in the loess. The six EA monitoring wells were abandoned in March 1999 after TDEC approved closure of the site. Former monitoring well locations are shown on the overview map (Northern Section) in Appendix C.

### **Southside Service Station (Building S-376)**

In July 1992, four loess monitoring wells (S37601LS — S37604LS) were installed at the Southside Service Station (Building S-376) to assess a petroleum release. All four were screened in the loess and have been closed. Locations of these former wells are shown on the overview map (Southern Section) in Appendix C.

### **North Fuel Farm (N-94 and N-126)**

Four UST EAs were completed by EnSafe and E/A&H in the North Fuel Farm area. In October 1992, three loess monitoring wells (N9405LS, N9406LS, and N9407LS) were installed by EnSafe to complement four existing leak detection wells around the tank pits for tanks T301, T1242, and T1243. These wells (Figure 3-3) were used to assess possible releases from the vehicle fueling station at the N-94 Tank Farm Office. N9407LS was later renamed 007G08LS and functioned as the loess monitoring well in well cluster number 8 for the SWMU 7 RFI.

E/A&H completed a second UST EA around tanks T7, T303, and T1241 in May 1993, when six loess monitoring wells were installed. The 1993 wells are shown on Figure 3-3 as NFMW01LS through NFMW06LS. In July 1994, E/A&H installed three loess wells (N001LS, N002LS, N003LS) to assess the area around the third set of tanks (T304 and T1239). The 1993 and 1994 investigations were then combined. Tanks T304 and T1239 were removed by Morrison Knudsen Corp. in July 1997. Three monitoring wells (N001LS, N002LS, and N003LS) were abandoned and one recovery well (RW-1) was installed in the area during removal of the USTs. During September 1998, loess monitoring well NFMW05LS was closed to remove impacted soil from the area. In October 1998, a 4-inch-diameter recovery well (N-MW-05) was installed to replace the abandoned NFMW05LS well. Both recovery wells (RW-1 and N-MW-05) and the five other NFMW wells have since been abandoned. Locations of these wells are shown on the overview map (Northern Section) in Appendix C.

### **Building N-12**

Four loess monitoring wells (N12G01LS through N12G04LS) were installed around Building N-12 (south of Hangar N-126 and east of North Fuel Farm) in January 1998 to investigate a release from a small fuel tank. These wells were closed in September 2005 following site closure. Locations of these former wells are shown on the overview map (Northern Section) in Appendix C.

### **Aircraft Fire Fighting Training Area (SWMU 5)**

Information regarding this site is detailed in **Section 3.3.1.1, Assembly A, SWMU 5** (page 3-5) of this report.

### **Building S-237**

MEC completed a UST investigation at Building S-237, where six monitoring wells (S23701LS - S32706LS) were installed in September 1992. No report on the effort was located during assembly of the original well management plan; however, well permits and well logs were on file at the MSCHD. All six monitoring wells have been abandoned. Monitoring well locations are shown on the overview map (Southern Section) in Appendix C.

### **Navy Hospital**

Four loess monitoring wells were installed by E/A&H in May 1992 to assess the release of fuel oil at the east end of the Naval Hospital, Building H-100. Monitoring well NH02LS was abandoned in August of 1996 and the other three (NH01LS, NH03LS, and NH04LS) were closed in March 1999.

The Navy Hospital UST site was closed after approval of a report prepared in accordance with *Technical Guidance Document— 015, Procedure to Obtain Closure for Sites in the Monitoring Only Program, State of Tennessee, Department of Underground Storage Tanks, August 1, 1996*. Monitoring well locations are shown on the overview map (Northern Section) in Appendix C.

### **Building S-50**

During a UST EA completed in June 1993 by E/A&H to assess a fuel oil UST release at Building S-50, five loess monitoring wells were installed. TDEC granted site closure in early 1994, and the wells were abandoned in August 1994. The overview map (Southern Section) in Appendix C shows locations of Building S-50 abandoned wells.

## **3.3.5 Other Water Wells**

### **3.3.5.1 Production (Potable Water Supply) Wells**

Four production wells currently supply NSA Mid-South with potable water. Table 3-4 lists their production capacity and total depth. A fifth production well (PW-N1), which is currently out of service, was active until November 30, 1994, when it was placed on emergency standby status as a precautionary measure because solvent contaminants were identified in the fluvial deposits nearby. Each production well is secured by a chain-link fence and locked gates. The Appendix C overview maps (Northern and Southern Sections) show the production well locations.

**Table 3-4  
Production Wells**

Production Wells	Depth (Feet)	Formation	Capacity (gpm <sup>a</sup> )
PW-N1	523	Memphis Sand	700-1,000
PW-N2	466	Memphis Sand	700-1,000
PW-N3	1,450	Fort Pillow	1,000-1,476
PW-S4	1,450	Fort Pillow	900-1,404
PW-S5	1,435	Fort Pillow	1,400-1,823

**Note:**

a — Gallons Per Minute

**3.3.5.2 Non-Potable Water Supply Wells**

Two of six non-potable water supply wells at NSA Mid-South are currently open. Table 3-5 lists these wells and their current use.

**Table 3-5  
Non-Potable Water Wells**

Well Number	Current Use	Formation	Building
V-107 (OCP-1)	Closed 09/05	Fluvial Deposits	Building S-89
V-57 (GC01)	Closed 07/05	Memphis Sand	Building S-26A
GC02	Irrigation	Memphis Sand	Building S-26A
V-81 (RWY-9)	Ambient Monitoring	Fluvial Deposits	West end of runway 9-27
V-77 (N761-1)	Closed 09/05	Cockfield Formation	Building N-761 Lakehouse
S172-1	Closed 11/96	Cockfield Formation	Building S-172/Lakehouse

**OCP-1** is in the Bathhouse (Building S-198) next to a small boiler and was used to fill the Officers Club pool with water. This well is screened in the fluvial deposits. The pump housing and connector rods were removed by the U.S. Geological Survey in late 1995. This well was closed in September 2005. The overview map (Southern Section) in Appendix C shows monitoring well location.

**GC01 and GC02** are across Attu Street Extended from the golf course club house (Building N-26A). GC02 replaced GC01 as the golf course irrigation well, and GC01 was closed in July 2005. Well GC02 supplies irrigation water from the Memphis Sand aquifer to the golf course and is not connected to the potable water system. No additional specifications have been obtained for this well. Overview site maps in Appendix C show irrigation well locations.

**RWY-9** is at the edge of the farm field north of the approach end of Runway 9, east of the radio receiver, Building 382. The well has a 4-inch polyvinyl chloride (PVC) casing and is screened

in the fluvial deposits. The age and use of this well were not determined; however, since it is in a farm area and shallow, this well was likely used for irrigation. The overview map (Northern Section) in Appendix C shows the monitoring well's location.

**N761-1** was closed in September 2005. The well, screened in the Cockfield Formation, was located inside of the dining room closet of the Lakehouse (Building N-761) and was used for ambient- water level monitoring. The age and original purpose of the former well are not known. The overview map (Northern Section) in Appendix C shows the monitoring well's location.

**S172-1** was a 4-inch PVC well in a small storage yard just east of the Lakehouse and adjacent to Building S-172. This well was closed in November 1995. The purpose and age of this well are not known. It was screened in the Cockfield Formation. The overview map (Northern Section) in Appendix C shows this monitoring well's location.

### **3.3.5.3 Abandoned Production and Test Wells**

Six production wells supplied potable water to NSA Mid-South from 1942 until 1983. As part of the potable water system upgrade, four wells (N-2, S-1, S-2, and S-3) were closed due to poor water quality (i.e., high iron content and high dissolved solids). The wells are reported to be 340 to 510 feet deep and screened in the "500 Foot Sands" aquifer, also known as the Memphis Sand aquifer. These wells were closed by completely filling each well casing with concrete. The two remaining wells, No. 1 (PW-N1) and No. 2 (PW-N2), were upgraded and three new potable wells were installed (PW-N3, PW-S4, and PW-S5). As part of the upgrade, a test well (TW01) was installed to assess the use of the Fort Pillow Aquifer of the Wilcox group as a water supply at NSA Mid-South. TW01 is near PW-S4 in the northwest corner of the NSA Mid-South Southside. The wellhead is an 8-inch steel casing that has been welded shut and secured. Wells PW-N3, PW-S4, and PW-S5 were screened in the Fort Pillow aquifer.

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**Appendix A**  
**Well Database**

**GROUNDWATER MONITORING WELL MANAGEMENT PLAN  
NSA MID-SOUTH DATABASE**

CNT	ID	SITE	EASTING	NORTHING	TOC	FORM	TYPE	MOUNT	INSTALLED	TD	STKUP	MAT	DIA	SCRNINVL	SCRNL	SCRNS	GND_MSL	POST	CAP	CONTRACTOR	STATUS	NOTES
1	002G01DA	002	817079.4	383123.7	269.55	ALLUVIUM	MW-RFI-E	AG	021296	58	2.65	PVC	2	48' - 58'	10	0.01	266.9	4	H	E/A&H	OPEN	BLA
2	002G01UA	002	817072.7	383127.5	269.30	ALLUVIUM	MW-RFI-E	AG	021396	27	2.57999	PVC	2	17' - 27'	10	0.01	266.72	4	H	E/A&H	OPEN	BLA
3	002G02DA	002	816914.1	382744.3	269.56	ALLUVIUM	MW-RFI-E	AG	020796	51	2.47	PVC	2	41' - 51'	10	0.01	267.09	4	H	E/A&H	OPEN	BLA
4	002G02UA	002	816905.9	382747.2	269.57	ALLUVIUM	MW-RFI-E	AG	021396	27	2.13999	PVC	2	17' - 27'	10	0.01	267.43	4	H	E/A&H	OPEN	BLA
5	002G03DA	002	816801.6	382431.5	269.62	ALLUVIUM	MW-RFI-E	AG	020696	48	2.45999	PVC	2	38' - 48'	10	0.01	267.16	4	H	E/A&H	OPEN	BLA
6	002G03UA	002	816811.5	382429.8	269.73	ALLUVIUM	MW-RFI-E	AG	020696	27	2.45	PVC	2	17' - 27'	10	0.01	267.28	4	H	E/A&H	OPEN	BLA
7	002G04UA	002	816456.9	382542.8	268.76	ALLUVIUM	MW-RFI-E	AG	020596	27	2.23	PVC	2	17' - 27'	10	0.01	266.53	4	H	E/A&H	OPEN	BLA
8	002G05DA	002	816154.1	382650.0	269.33	ALLUVIUM	MW-RFI-E	AG	020596	50.5	2.16999	PVC	2	40.5' - 50.5'	10	0.01	267.16	4	H	E/A&H	OPEN	BLA
9	002G05UA	002	816158.7	382653.8	269.39	ALLUVIUM	MW-RFI-E	AG	020596	27	2.25	PVC	2	17' - 27'	10	0.01	267.14	4	H	E/A&H	OPEN	BLA
10	002G06DA	002	815254.4	382763.8	269.69	ALLUVIUM	MW-RFI-E	AG	020296	54.5	1.82999	PVC	2	44.5' - 54.5'	10	0.01	267.86	4	H	E/A&H	OPEN	BLA
11	002G06UA	002	815264.6	382760.2	269.61	ALLUVIUM	MW-RFI-E	AG	020296	27	1.79	PVC	2	17' - 27'	10	0.01	267.82	4	H	E/A&H	OPEN	BLA
12	002G07UA	002	814765.1	383061.9	268.21	ALLUVIUM	MW-RFI-E	AG	020196	27	2.10999	PVC	2	17' - 27'	10	0.01	266.1	4	H	E/A&H	OPEN	BLA
13	002G08DA	002	814589.7	383140.9	269.33	ALLUVIUM	MW-RFI-E	AG	013196	55	2.22999	PVC	2	45' - 55'	10	0.01	267.1	4	H	E/A&H	CLOSED	BLA
14	002G08UA	002	814597.6	383135.8	269.37	ALLUVIUM	MW-RFI-E	AG	020196	27	2.32	PVC	2	17' - 27'	10	0.01	267.05	4	H	E/A&H	CLOSED	BLA
15	002G09DA	002	814443.9	383225.4	267.96	ALLUVIUM	MW-RFI-E	AG	013096	46	2.44999	PVC	2	36' - 46'	10	0.01	265.51	4	H	E/A&H	CLOSED	BLA
16	002G09UA	002	814452.3	383220.3	268.09	ALLUVIUM	MW-RFI-E	AG	013096	27	2.40999	PVC	2	17' - 27'	10	0.01	265.68	4	H	E/A&H	CLOSED	BLA
17	002G10DA	002	814662.2	383567.2	270.17	ALLUVIUM	MW-RFI-E	FG	021396	50	-0.25	PVC	2	40' - 50'	10	0.01	270.36	0	H	E/A&H	CLOSED	BLA
18	002G10UA	002	814663.9	383575.9	270.21	ALLUVIUM	MW-RFI-E	FG	021396	32	-0.21	PVC	2	22' - 32'	10	0.01	270.42	0	H	E/A&H	CLOSED	BLA
19	002G11DA	002	814966.6	383752.9	266.77	ALLUVIUM	MW-RFI-E	AG	011796	42.2	1.59999	PVC	2	32.2' - 42.2'	10	0.01	265.17	4	H	E/A&H	OPEN	BLA
20	002G11UA	002	814974.9	383747.3	266.91	ALLUVIUM	MW-RFI-E	AG	011896	26.75	1.79	PVC	2	16.75' - 26.75'	10	0.01	265.12	4	H	E/A&H	OPEN	BLA
21	002G12DA	002	815988.4	383581.1	268.63	ALLUVIUM	MW-RFI-E	AG	013096	48.5	2.06999	PVC	2	38.5' - 48.5'	10	0.01	266.56	4	H	E/A&H	OPEN	BLA
22	002G12UA	002	815983.6	383591.7	268.63	ALLUVIUM	MW-RFI-E	AG	012996	27	1.99	PVC	2	17' - 27'	10	0.01	266.64	4	H	E/A&H	OPEN	BLA
23	002G13DA	002	817157.3	383377.1	269.12	ALLUVIUM	MW-RFI-E	AG	012096	65	2.07	PVC	2	55' - 65'	10	0.01	267.05	4	H	E/A&H	CLOSED	BLA
24	002G13MA	002	817148.0	383381.3	269.20	ALLUVIUM	MW-RFI-E	AG	012296	46	1.96999	PVC	2	36' - 46'	10	0.01	267.23	4	H	E/A&H	CLOSED	BLA
25	002G13UA	002	817138.6	383382.3	268.96	ALLUVIUM	MW-RFI-E	AG	012396	27	1.82999	PVC	2	17' - 27'	10	0.01	267.13	4	H	E/A&H	CLOSED	BLA
26	002G14DA	002	817444.9	384419.9	271.00	ALLUVIUM	MW-RFI-E	AG	021496	50	2	PVC	2	40' - 50'	10	0.01	269	4	H	E/A&H	CLOSED	BLA
27	002G14UA	002	817436.7	384419.8	271.23	ALLUVIUM	MW-RFI-E	AG	021496	27	2.06	PVC	2	17' - 27'	10	0.01	269.17	4	H	E/A&H	CLOSED	BLA
28	002G15DA	002	814302.4	383055.5	269.20	ALLUVIUM	MW-RFI-E	AG	06_98	57.30	2.9	PVC	2	47' - 57'	10	0.01	266.30	4	H	ENSAFE	CLOSED	BLA
29	002G16DA	002	815425.7	382440.0	270.52	ALLUVIUM	MW-RFI-E	AG	06_98	76.50	3	PVC	2	46' - 56'	10	0.01	267.52	4	H	ENSAFE	CLOSED	BLA
30	002G17UA	002	814302.4	383070.5	NA	ALLUVIUM	MW-RFI-E	AG	81899	30	NA	PVC	2	20' - 30'	10	0.01	NA	4	BOX	USGS	CLOSED	BLA
31	002G17DA	002	816037.3	382410.1	271.27	ALLUVIUM	MW-RFI-E	AG	06_98	77.50	3	PVC	2	40' - 50'	10	0.01	268.27	4	BOX	ENSAFE	CLOSED	BLA
32	002G17UC	002	816031.8	382384.7	271.16	ALLUVIUM	MW-RFI-E	AG	06_98	77.50	2.9	PVC	2	57' - 67'	10	0.01	268.26	4	BOX	ENSAFE	CLOSED	BLA
33	002G18DA	002	816435.8	381949.2	271.30	ALLUVIUM	MW-RFI-E	AG	06_98	57.40	2.9	PVC	2	37' - 47'	10	0.01	268.40	4	H	ENSAFE	CLOSED	BLA
34	002G19DA	002	817457.1	382934.0	271.21	ALLUVIUM	MW-RFI-E	AG	06_98	57.10	3.1	PVC	2	47' - 57'	10	0.01	268.11	4	H	ENSAFE	OPEN	BLA
35	002G20DA	002	814913.2	380712.2	270.06	ALLUVIUM	MW-RFI-E	AG	06_98	87.00	3	PVC	2	43' - 53'	10	0.01	267.06	4	H	ENSAFE	CLOSED	BLA
36	002G22DA	002	813672.1	381757.1	269.85	ALLUVIUM	MW-RFI-E	AG	06_98	56.60	3.2	PVC	2	37' - 47'	10	0.01	266.65	4	H	ENSAFE	CLOSED	BLA; 002G21 was a boring
37	002G23DA	002	816315.3	379536.3	273.38	ALLUVIUM	MW-RFI-E	AG	06_98	56.50	2.81	PVC	2	46' - 56'	10	0.01	270.57	4	H	ENSAFE	CLOSED	BLA
38	002G24DA	002	816855.7	382368.9	271.59	ALLUVIUM	MW-CMS-E	AG	61201	58	1.89	PVC	2	41.4' - 51.4'	10	0.01	269.7	4	H	ENSAFE	OPEN	BLA
39	002G25DA	002	816790.4	382371.5	272.08	ALLUVIUM	MW-CMS-E	AG	61301	53	2.43	PVC	2	43' - 53'	10	0.01	270.37	4	H	ENSAFE	OPEN	BLA
40	002G26DA	002	816733.3	382351.4	265.04	ALLUVIUM	MW-CMS-E	AG	61401	48	-0.17	PVC	2	38' - 48'	10	0.01	265.21	0	H	ENSAFE	OPEN	BLA
41	002G27DA	002	816664.5	382368.1	263.28	ALLUVIUM	MW-CMS-E	AG	61401	42.5	-0.14	PVC	2	32.5' - 42.5'	10	0.01	263.42	0	H	ENSAFE	OPEN	BLA
42	002G28DA	002	816826.7	382395.4	269.89	ALLUVIUM	MW-CMS-E	AG	61801	50	1.59	PVC	2	40' - 50'	10	0.01	268.3	4	H	ENSAFE	OPEN	BLA
43	002GGM02DA	002	816452.5	382531.7	269.45	ALLUVIUM	MW-RFI-E	AG	061785	44	1.85	PVC	2	39' - 44'	5	0.01	267.6	4	H	G&M	OPEN	BLA
44	002GGM03DA	002	815822.4	382667.1	270.54	ALLUVIUM	MW-RFI-E	AG	121484	45	1.7	PVC	2	40' - 45'	5	0.01	268.84	4	H	G&M	CLOSED	BLA
45	002GGM04UA	002	815818.6	382667.3	270.30	ALLUVIUM	MW-RFI-E	AG	121584	22	1.72	PVC	2	17' - 22'	5	0.01	268.58	4	H	G&M	CLOSED	BLA
46	002GGM05DA	002	814768.9	383070.5	268.29	ALLUVIUM	MW-RFI-E	AG	121584	57	1.8	PVC	2	52' - 57'	5	0.01	266.49	4	H	G&M	OPEN	BLA
47	002GGM01DA	002	817381.8	383631.8	269.73	ALLUVIUM	MW-RFI-E	AG	120784	50.00	1.83	PVC	2	44' - 49'	5	0.01	267.9	0	N	G&M	CLOSED	BLA
48	003G01LS	003	814885.0	390696.4	286.41	LOESS	MW-RFI-A	AG	012595	22.55	1.42	PVC	2	12' - 22'	10	0.01	284.83	0	N	E/A&H	CLOSED	BLA
49	003G02LF	003	814864.5	390841.1	289.63	FLUVIAL	MW-RFI-A	AG	012695	20.00	3.63	PVC	2	10' - 20'	10	0.01	286	0	N	E/A&H	CLOSED	BLA
50	003G02LS	003	814867.4	390842.1	289.23	LOESS	MW-RFI-A	AG	012595	22.81	3.17	PVC	2	12.3' - 22.3'	10	0.01	286.13	0	N	E/A&H	CLOSED	BLA
51	003G03LS	003	814815.9	390800.4	285.03	LOESS	MW-RFI-A	FG	012695	19.75	-0.19	PVC	2	9.3' - 19.3'	10	0.01	285.05	0	N	E/A&H	CLOSED	BLA
52	003G03MF	003	814814.8	390793.1	284.90	FLUVIAL	MW-RFI-A	FG	012695	60.58	2.13	PVC	2	50.1' - 60.1'	10	0.01	282.65	0	N	E/A&H	CLOSED	BLA
53	003G04LF	003	814883.7	390738.4	284.27	FLUVIAL	MW-RFI-A	FG	012795	85.95	-0.33	PVC	2	75.5' - 85.5'	10	0.01	284.35	0	N	E/A&H	CLOSED	BLA
54	003G04LS	003	814872.9	390740.1	284.31	LOESS	MW-RFI-A	FG	012595	19.98	-0.19	PVC	2	9.5' - 19.5'	10	0.01	284.26	0	N	E/A&H	CLOSED	BLA
55	003G05MF	003	814831.8	390704.0	286.20	FLUVIAL	MW-RFI-A	AG	013095	66.72	2.11	PVC	2	56.2' - 66.2'	10	0.01	283.89	0	N	E/A&H	CLOSED	BLA

**GROUNDWATER MONITORING WELL MANAGEMENT PLAN  
NSA MID-SOUTH DATABASE**

CNT	ID	SITE	EASTING	NORTHING	TOC	FORM	TYPE	MOUNT	INSTALLED	TD	STKUP	MAT	DIA	SCRNINVL	SCRNL	SCRNS	GND_MSL	POST	CAP	CONTRACTOR	STATUS	NOTES
56	003GGM06UF	003	814867.9	390847.4	286.25	FLUVIAL	MW-RFI-A	FG	120784	50	2.19	PVC	2	45' - 50'	5	0.01	286.47	4	H	G&M	CLOSED	BLA
57	003GGM07UF	003	814876.4	390704.0	285.97	FLUVIAL	MW-RFI-A	AG	121184	60	2.48	PVC	2	55' - 60'	5	0.01	283.94	0	N	G&M	CLOSED	BLA
58	003GGM08LS	003	814841.7	390709.6	286.64	LOESS	MW-RFI-A	AG	121384	20	1.87	PVC	2	15' - 20'	5	0.01	285.13	0	N	G&M	CLOSED	BLA
59	005FF01LS	005	810977.6	390093.1	268.67	LOESS	MW-UST	AG	062292	20.3	1.58	PVC	2	15' - 20'	5	0.01	267.485	0	N	E/A&H	CLOSED	BLA
60	005FF02LS	005	810969.3	390137.6	267.77	LOESS	MW-UST	AG	062292	20.26	1.35	PVC	2	15' - 20'	5	0.01	266.804	0	N	E/A&H	CLOSED	BLA
61	005FF03LS	005	810992.6	390171.5	268.04	LOESS	MW-UST	AG	062392	21.29	1.31	PVC	2	16' - 21'	5	0.01	267.062	0	N	E/A&H	CLOSED	BLA
62	005FF04LS	005	810965.8	390178.6	267.44	LOESS	MW-UST	AG	062392	18.3	1.58	PVC	2	8' - 18'	10	0.01	266.218	0	N	E/A&H	CLOSED	BLA
63	005FF05LS	005	811585.2	389970.6	268.73	LOESS	MW-UST	AG	062492	18.06	1.61	PVC	2	8' - 18'	10	0.01	267.515	4	H	E/A&H	CLOSED	BLA
64	005FF06LS	005	811650.1	390124.4	270.25	LOESS	MW-UST	AG	062492	22.88	1.52	PVC	2	12' - 22'	10	0.01	269.140	4	H	E/A&H	CLOSED	BLA
65	005FF07LS	005	811536.6	390214.4	267.85	LOESS	MW-UST	AG	62592	17.92	1.44	PVC	2	7' - 17'	10	0.01	266.82	4	H	E/A&H	CLOSED	BLA
66	005FF08LS	005	811444.8	390244.5	268.04	LOESS	MW-UST	AG	062592	17.92	1.44	PVC	2	7' - 17'	10	0.01	266.817	0	N	E/A&H	CLOSED	BLA
67	005FF09LS	005	811575.1	390255.6	267.73	LOESS	MW-UST	AG	062692	18.14	1.65	PVC	2	8' - 18'	10	0.01	266.424	4	H	E/A&H	CLOSED	BLA
68	005FF10LS	005	811571.4	390195.2	268.16	LOESS	MW-UST	AG	062692	19.33	1.63	PVC	2	9' - 19'	10	0.01	266.890	0	N	E/A&H	CLOSED	BLA
69	005FF11LS	005	811542.7	390126.2	270.05	LOESS	MW-UST	AG	062692	18.23	1.57	PVC	2	8' - 18'	10	0.01	268.882	0	N	E/A&H	CLOSED	BLA
70	005G01UF	005	811337.6	389869.3	271.09	FLUVIAL	MW-RFI-A	AG	012995	54.5	2.39	PVC	2	44' - 54'	10	0.01	268.64	4	H	E/A&H	CLOSED	BLA
71	005G02UF	005	810966.4	390015.5	270.08	FLUVIAL	MW-RFI-A	AG	021195	52.53	2.32	PVC	2	42' - 52'	10	0.01	267.74	4	H	E/A&H	CLOSED	BLA
72	005G03LS	005	811388.1	390328.4	267.97	LOESS	MW-RFI-A	AG	021295	21.33	2.45	PVC	2	10.8' - 20.8'	10	0.01	265.45	4	H	E/A&H	CLOSED	BLA
73	005G03UF	005	811377.9	390331.5	267.52	FLUVIAL	MW-RFI-A	AG	021295	52.37	2.01	PVC	2	41.9' - 51.9'	10	0.01	265.45	4	H	E/A&H	CLOSED	BLA
74	005G04LS	005	810965.8	390274.3	266.83	LOESS	MW-RFI-A	AG	21195	20	2.63	PVC	2	ND	ND	0.01	264.2	0	N	ND	CLOSED	BLA
75	005G04UF	005	811602.4	389976.1	269.03	FLUVIAL	MW-RFI-A	AG	021195	52.14	2.31	PVC	2	41.6' - 51.6'	10	0.01	266.72	4	H	E/A&H	OPEN	BLA
76	005G05LF	005	811314.0	389882.8	271.22	FLUVIAL	MW-RFI-A	AG	012995	68.1	2.52	PVC	2	57.6' - 67.6'	10	0.01	268.69	4	H	E/A&H	CLOSED	BLA
77	005G05LS	005	811585.2	389970.6	268.73	LOESS	MW-RFI-A	AG	12995	16	1.97	PVC	2	ND	ND	0.01	266.76	0	N	ND	CLOSED	BLA
78	005G06LS	005	811078.6	390274.3	266.83	LOESS	MW-RFI-A	AG	012995	20.78	2.22	PVC	2	10.3' - 20.3'	10	0.01	264.53	0	N	E/A&H	CLOSED	BLA
79	005G07LS	005	810925.6	390241.2	266.95	LOESS	MW-RFI-A	AG	012995	21.22	2.39	PVC	2	10.7' - 20.7'	10	0.01	264.48	0	N	E/A&H	CLOSED	BLA
80	005G08LF	005	811521.8	390003.8	270.38	FLUVIAL	MW-RFI-A	AG	080598	74.9	2.49	PVC	2	55'-65'	10	0.01	267.89	4	H	ENSAFE	OPEN	BLA
81	005G08LS	005	811455.9	390254.2	265.60	LOESS	MW-RFI-A	AG	013095	16.1	1.96	PVC	4	6.1' - 16.1'	10	0.01	266.08	0	H	USGS	CLOSED	Replaced FF08LS
82	005G09LS	005	811575.1	390255.6	267.73	LOESS	MW-RFI-A	AG	013095	16.7	1.91	PVC	2	ND	ND	0.01	265.82	0	N	ND	CLOSED	BLA
83	005G4AUF	005	811593.5	389983.1	269.19	FLUVIAL	MW-RFI-A	AG	022795	53.6	2.17	PVC	2	43.1' - 53.1'	10	0.01	266.93	0	N	E/A&H	CLOSED	BLA
84	005G4BUF	005	811584.6	389989.7	268.71	FLUVIAL	MW-RFI-A	AG	022795	53.2	2.02	PVC	2	42.7' - 52.7'	10	0.01	266.74	0	N	E/A&H	CLOSED	BLA
85	007G01LF	AOC A	813657.5	391813.7	284.91	FLUVIAL	MW-RFI-A	AG	022595	71.77	1.92	PVC	2	61.3' - 71.3'	10	0.01	282.98	4	H	E/A&H	OPEN	BLA
86	007G01LS	AOC A	813646.8	391816.3	284.74	LOESS	MW-RFI-A	AG	021195	22.52	2.29	PVC	2	12' - 22'	10	0.01	282.45	4	N	E/A&H	CLOSED	BLA
87	007G01UC	AOC A	813649.8	391809.5	284.64	COCKFIELD	MW-RFI-A	AG	022495	109.8	2.17	PVC	2	99.3' - 109.3'	10	0.01	282.34	4	H	E/A&H	CLOSED	BLA
88	007G01UF	AOC A	813654.8	391820.4	285.00	FLUVIAL	MW-RFI-A	AG	022595	42.14	2.04	PVC	2	31.6' - 41.6'	10	0.01	282.95	4	H	E/A&H	OPEN	BLA
89	007G02LS	AOC A	813743.2	391997.9	283.00	LOESS	MW-RFI-A	FG	020795	15	0	PVC	2	10'-20'	10	0.01	283	0	N	E/A&H	CLOSED	BLA; no UF/LF at this
90	007G02UC	AOC A	813749.8	391986.1	283.18	COCKFIELD	MW-RFI-A	FG	022495	116.87	ND	PVC	2	106.4' - 116.4'	10	0.01	283.22	0	H	E/A&H	CLOSED	BLA
91	007G03LF	AOC A	813897.2	391935.9	283.32	FLUVIAL	MW-RFI-A	FG	021395	80.68	-0.52	PVC	2	70.2' - 80.2'	10	0.01	283.84	0	H	E/A&H	OPEN	BLA
92	007G03LS	AOC A	813903.4	391934.2	283.47	LOESS	MW-RFI-A	FG	021195	21.1	-0.42	PVC	2	10.6' - 20.6'	10	0.01	283.89	0	N	E/A&H	CLOSED	BLA
93	007G03UC	AOC A	813905.4	391940.7	283.47	COCKFIELD	MW-RFI-A	FG	021495	110.64	-0.46	PVC	2	100.2' - 110.2'	10	0.01	283.85	0	H	E/A&H	CLOSED	BLA
94	007G03UF	AOC A	813899.1	391942.3	283.26	FLUVIAL	MW-RFI-A	FG	021395	48.85	-0.52	PVC	2	38.3' - 48.3'	10	0.01	283.78	0	H	E/A&H	OPEN	BLA
95	007G04LF	AOC A	813772.6	392183.3	283.12	FLUVIAL	MW-RFI-A	FG	022195	70.16	-0.67	PVC	2	59.7' - 69.7'	10	0.01	283.87	0	H	E/A&H	OPEN	BLA
96	007G04LS	AOC A	813770.0	392172.0	283.87	LOESS	MW-RFI-A	FG	021795	20	0	PVC	2	10'-20'	10	0.01	283.87	0	N	E/A&H	CLOSED	BLA
97	007G04UC	AOC A	813766.1	392179.6	283.39	COCKFIELD	MW-RFI-A	FG	021695	135.43	-0.34	PVC	2	124.9' - 134.9'	10	0.01	283.76	0	H	E/A&H	OPEN	BLA
98	007G04UF	AOC A	813776.9	392175.8	283.21	FLUVIAL	MW-RFI-A	FG	022195	48.16	-0.5	PVC	2	37.7' - 47.7'	10	0.01	283.88	0	H	E/A&H	OPEN	BLA
99	007G05LF	AOC A	813333.2	392052.0	282.28	FLUVIAL	MW-RFI-A	FG	022295	79.24	-0.41	PVC	2	68.7' - 78.7'	10	0.01	282.61	0	H	E/A&H	OPEN	BLA
100	007G05LS	AOC A	813345.1	392043.9	282.43	LOESS	MW-RFI-A	FG	020995	20.4	-0.41	PVC	2	9.9' - 19.9'	10	0.01	282.78	0	N	E/A&H	CLOSED	BLA
101	007G05UC	AOC A	813338.6	392040.9	282.39	COCKFIELD	MW-RFI-A	FG	022195	135	-0.34	PVC	2	124.5' - 134.5'	10	0.01	282.67	0	H	E/A&H	CLOSED	BLA
102	007G05UF	AOC A	813339.3	392054.9	282.43	FLUVIAL	MW-RFI-A	FG	022295	48.44	-0.41	PVC	2	37.9' - 47.9'	10	0.01	282.75	0	H	E/A&H	OPEN	BLA
103	007G06LF	AOC A	813821.3	391482.4	286.52	FLUVIAL	MW-RFI-A	AG	021595	80.67	2	PVC	2	70.2' - 80.2'	10	0.01	284.47	4	H	E/A&H	OPEN	BLA
104	007G06LS	AOC A	813812.0	391475.0	286.37	LOESS	MW-RFI-A	AG	021095	22.77	2.13	PVC	2	12.3' - 22.3'	10	0.01	284.21	0	N	E/A&H	CLOSED	BLA
105	007G06UC	AOC A	813813.3	391482.8	286.49	COCKFIELD	MW-RFI-A	AG	021495	96.5	2.17	PVC	2	86' - 96'	10	0.01	284.29	0	N	E/A&H	CLOSED	BLA
106	007G06UF	AOC A	813819.5	391473.9	286.48	FLUVIAL	MW-RFI-A	AG	022295	52.88	2.08	PVC	2	42.4' - 52.4'	10	0.01	284.37	4	H	E/A&H	OPEN	BLA
107	007G07LF	AOC A	813544.9	391521.8	283.68	FLUVIAL	MW-RFI-A	AG	022395	80.94	1.67	PVC	2	70.4' - 80.4'	10	0.01	282.01	4	H	E/A&H	OPEN	BLA
108	007G07LS	AOC A	813553.8	391528.0	284.44	LOESS	MW-RFI-A	AG	021095	22.66	2.46	PVC	2	12.2' - 22.2'	10	0.01	281.98	0	N	E/A&H	CLOSED	BLA
109	007G07UC	AOC A	813552.7	391521.3	283.94	COCKFIELD	MW-RFI-A	AG	022295	105	1.96	PVC	2	94.5' - 104.5'	10	0.01	281.94	0	N	E/A&H	CLOSED	BLA
110	007G07UF	AOC A	813545.9	391529.3	283.98	FLUVIAL	MW-RFI-A	AG	022395	53	1.96	PVC	2	42.5' - 52.5'	10	0.01	282.01	4	H	E/A&H	OPEN	BLA

**GROUNDWATER MONITORING WELL MANAGEMENT PLAN  
NSA MID-SOUTH DATABASE**

CNT	ID	SITE	EASTING	NORTHING	TOC	FORM	TYPE	MOUNT	INSTALLED	TD	STKUP	MAT	DIA	SCRNINVL	SCRNL	SCRNS	GND_MSL	POST	CAP	CONTRACTOR	STATUS	NOTES
111	007G08LF	AOC A	813303.5	391565.7	282.92	FLUVIAL	MW-RFI-A	AG	022595	79.06	1.96	PVC	2	68.6' - 78.6'	10	0.01	281.01	4	H	E/A&H	OPEN	BLA
112	007G08LS	AOC A	813241.0	391602.0	286.32	LOESS	MW-UST	AG	100892	17.8	2.53	PVC	2	10' - 20'	10	0.01	283.79	4	H	ND	OPEN	aka N9407LS
113	007G08UC	AOC A	813303.4	391558.2	283.10	COCKFIELD	MW-RFI-A	AG	022495	128.2	2.04	PVC	2	117.7' - 127.7'	10	0.01	281.08	0	N	E/A&H	CLOSED	BLA
114	007G08UF	AOC A	813295.7	391567.6	282.93	FLUVIAL	MW-RFI-A	AG	022595	49.04	2.13	PVC	2	38.5' - 48.5'	10	0.01	280.73	4	H	E/A&H	OPEN	BLA
115	007G09LF	AOC A	813444.5	391872.2	282.65	FLUVIAL	MW-RFI-A	FG	021695	80.9	-0.34	PVC	2	70.4' - 80.4'	10	0.01	282.98	0	H	E/A&H	OPEN	BLA
116	007G09LS	AOC A	813437.4	391868.9	282.54	LOESS	MW-RFI-A	FG	021295	20.15	-0.34	PVC	2	9.7' - 19.7'	10	0.01	282.89	0	N	E/A&H	CLOSED	BLA
117	007G09UC	AOC A	813441.2	391862.5	282.55	COCKFIELD	MW-RFI-A	FG	021595	114.32	-0.34	PVC	2	103.8' - 113.8'	10	0.01	282.82	0	H	E/A&H	CLOSED	BLA
118	007G09UF	AOC A	813447.7	391866.3	282.90	FLUVIAL	MW-RFI-A	FG	021695	45.54	-0.41	PVC	2	35' - 45'	10	0.01	283.31	0	H	E/A&H	OPEN	BLA
119	007G10LF	AOC A	813702.7	393099.1	282.01	FLUVIAL	MW-RFI-A	FG	031896	78	-0.21	PVC	2	68' - 78'	10	0.01	282.222	0	H	E/A&H	OPEN	BLA
120	007G11LF	AOC A	813820.5	392805.6	282.94	FLUVIAL	MW-RFI-A	FG	031896	70	-0.42	PVC	2	60' - 70'	10	0.01	283.149	0	H	E/A&H	OPEN	BLA
121	007G12LF	AOC A	814737.9	393055.9	288.78	FLUVIAL	MW-RFI-A	FG	031696	90	-0.42	PVC	2	80' - 90'	10	0.01	289.097	0	H	E/A&H	OPEN	BLA
122	007G13LF	AOC A	815424.4	392303.1	292.96	FLUVIAL	MW-RFI-A	FG	031796	76	-0.32	PVC	2	66' - 76'	10	0.01	293.137	0	H	E/A&H	CLOSED	BLA
123	007G14LF	AOC A	815307.0	391898.1	296.43	FLUVIAL	MW-RFI-A	FG	031796	94	-0.21	PVC	2	84' - 94'	10	0.01	296.645	0	H	E/A&H	OPEN	BLA
124	007G15LF	AOC A	814961.2	392221.1	293.36	FLUVIAL	MW-RFI-A	FG	031996	100	-0.42	PVC	2	90' - 100'	10	0.01	293.664	0	H	E/A&H	OPEN	BLA
125	007G15UF	AOC A	814956.6	392229.8	292.91	FLUVIAL	MW-RFI-A	FG	031996	50	-0.79	PVC	2	40' - 50'	10	0.01	293.794	0	H	E/A&H	OPEN	BLA
126	007G16LF	AOC A	814103.5	391871.7	287.63	FLUVIAL	MW-RFI-A	AG	031596	80	2.35100	PVC	2	70' - 80'	10	0.01	285.28	4	H	E/A&H	OPEN	BLA
127	007G17LF	AOC A	813408.7	391181.3	283.20	FLUVIAL	MW-RFI-A	AG	031596	72	2.31	PVC	2	62' - 72'	10	0.01	280.893	4	H	E/A&H	OPEN	BLA
128	007G18LF	AOC A	812726.2	392222.8	278.35	FLUVIAL	MW-RFI-A	FG	031996	100	-0.32	PVC	2	90' - 100'	10	0.01	278.67	0	H	E/A&H	OPEN	BLA
129	007G19LF	AOC A	815410.0	393398.7	291.58	FLUVIAL	MW-RFI-A	FG	031497	69	ND	PVC	2	57'-67'	10	0.01	ND	0	H	ENSAFE	OPEN	BLA
130	007G20LF	AOC A	813486.0	392485.9	282.70	FLUVIAL	MW-RFI-A	FG	071398	75.00	-0.12	PVC	2	65'-75'	10	0.01	282.82	0	H	ENSAFE	OPEN	BLA
131	007G21LF	AOC A	813673.0	392560.3	283.66	FLUVIAL	MW-RFI-A	FG	071498	75.00	-0.29	PVC	2	65'-75'	10	0.01	283.95	0	H	ENSAFE	OPEN	BLA
132	007G22LF	AOC A	813905.9	392658.1	284.86	FLUVIAL	MW-RFI-A	FG	071998	77.50	-0.29	PVC	2	67.5'-77.5'	10	0.01	285.15	0	H	ENSAFE	OPEN	BLA
133	007G22UC	AOC A	813899.0	392671.6	284.83	COCKFIELD	MW-RFI-A	FG	072998	103.00	-0.22	PVC	2	93''103'	10	0.01	285.05	0	H	ENSAFE	CLOSED	BLA
134	007G23LF	AOC A	814087.3	392728.4	285.89	FLUVIAL	MW-RFI-A	FG	073198	82.00	-0.26	PVC	2	72'-82'	10	0.01	286.15	0	H	ENSAFE	OPEN	BLA
135	007G24MF	AOC A	814610.9	392815.6	289.06	FLUVIAL	MW-RFI-A	FG	073098	70.00	-0.25	PVC	2	60'-70'	10	0.01	289.31	0	H	ENSAFE	OPEN	BLA
136	007G25MF	AOC A	814789.9	392888.0	289.97	FLUVIAL	MW-RFI-A	FG	080498	81.50	-0.33	PVC	2	71.5'-81.5'	10	0.01	290.30	0	H	ENSAFE	OPEN	BLA
137	007G26MF	AOC A	814922.5	392954.1	290.13	FLUVIAL	MW-RFI-A	FG	080298	70.00	-0.27	PVC	2	60'-70'	10	0.01	290.40	0	H	ENSAFE	OPEN	BLA
138	007G27LF	AOC A	812680.9	392553.5	276.77	FLUVIAL	MW-RFI-A	FG	072198	117.00	-0.09	PVC	2	107'-117'	10	0.01	276.86	0	H	ENSAFE	OPEN	BLA
139	007G28LF	AOC A	813467.3	393309.6	281.91	FLUVIAL	MW-RFI-A	FG	071898	80.50	0.04	PVC	2	70.5'-80.5'	10	0.01	281.87	0	H	ENSAFE	OPEN	BLA
140	007G29LF	AOC A	813594.0	393384.3	282.29	FLUVIAL	MW-RFI-A	FG	071798	80.00	-0.08	PVC	2	70'-80'	10	0.01	282.37	0	H	ENSAFE	OPEN	BLA
141	007G30LF	AOC A	813714.3	393468.2	282.99	FLUVIAL	MW-RFI-A	FG	071698	80.00	-0.08	PVC	2	70'-80'	10	0.01	283.07	0	H	ENSAFE	OPEN	BLA
142	007G31LF	AOC A	813333.6	393234.2	280.79	FLUVIAL	MW-RFI-A	FG	111898	78.00	ND	PVC	2	68'-78'	10	0.01	281.00	0	H	ENSAFE	OPEN	BLA
143	007G32LF	AOC A	813604.1	392699.2	281.97	FLUVIAL	MW-RFI-A	FG	111998	78.00	ND	PVC	2	68'-78'	10	0.01	282.00	0	H	ENSAFE	OPEN	BLA
144	007G33LF	AOC A	813206.4	392912.1	279.55	FLUVIAL	MW-RFI-A	FG	112098	85.00	ND	PVC	2	75'-85'	10	0.01	280.00	0	H	ENSAFE	OPEN	BLA
145	007G34LF	AOC A	813091.7	393915.5	283.22	FLUVIAL	MW-RFI-A	FG	112198	91.00	1	PVC	2	81'-91'	10	0.01	284.00	0	H	ENSAFE	OPEN	BLA
146	007G35LF	AOC A	812924.6	393736.6	281.77	FLUVIAL	MW-RFI-A	FG	112298	91.00	ND	PVC	2	81'-91'	10	0.01	282.00	0	H	ENSAFE	OPEN	BLA
147	007G36LF	AOC A	812747.6	393592.0	280.72	FLUVIAL	MW-RFI-A	FG	112298	92.00	ND	PVC	2	82'-92'	10	0.01	281.00	0	H	ENSAFE	OPEN	BLA
148	007G37F1	AOC A	812560.3	393729.0	280.29	FLUVIAL	MW-RFI-A	FG	071499	90.00	-0.67	PVC	2	50'-90'	10	0.01	280.96	0	H	ENSAFE	OPEN	BLA; aquifer test
149	007G37L1	AOC A	812553.3	393723.0	280.13	LOESS	MW-RFI-A	FG	072099	20.00	-0.81	PVC	2	10'-20'	10	0.01	280.94	0	H	ENSAFE	CLOSED	BLA; aquifer test
150	007G37L2	AOC A	812546.6	393715.6	280.22	LOESS	MW-RFI-A	FG	072099	40.00	-0.6	PVC	2	30'-40'	10	0.01	280.82	0	H	ENSAFE	CLOSED	BLA; aquifer test
151	007G37LF	AOC A	812575.8	393714.2	280.59	FLUVIAL	MW-RFI-A	AG	020299	91.00	0.07	PVC	4	51'-91'	40	0.01	280.52	4	H	ENSAFE	OPEN	BLA
152	007G37UC	AOC A	812568.2	393736.7	280.42	COCKFIELD	MW-RFI-A	FG	071499	125.00	-0.65	PVC	2	115'-125'	10	0.01	281.07	0	H	ENSAFE	CLOSED	BLA
153	007G38LF	AOC A	812593.3	393399.2	279.96	FLUVIAL	MW-RFI-A	FG	020399	88.00	-0.16	PVC	2	48'-88'	40	0.01	280.12	0	H	ENSAFE	OPEN	BLA
154	007G39LF	AOC A	813257.9	394136.8	284.91	FLUVIAL	MW-RFI-A	FG	020599	94.00	-0.32	PVC	2	54'-94'	40	0.01	285.23	0	H	ENSAFE	OPEN	BLA
155	007G40LF	AOC A	812442.2	393203.9	279.03	FLUVIAL	MW-RFI-A	FG	020699	87.00	-0.18	PVC	2	57'-87'	30	0.01	279.21	0	H	ENSAFE	OPEN	BLA
156	007G41LF	AOC A	812367.7	393876.5	281.89	FLUVIAL	MW-RFI-A	AG	020899	93.00	2.44	PVC	2	53'-93'	40	0.01	279.45	4	H	ENSAFE	OPEN	BLA
157	007G42LF	AOC A	811564.9	394573.3	277.01	FLUVIAL	MW-RFI-A	AG	021099	85.00	2.1	PVC	2	45'-85'	40	0.01	274.91	4	H	ENSAFE	OPEN	BLA
158	007G43LF	AOC A	812282.5	393011.3	277.25	FLUVIAL	MW-RFI-A	FG	021699	84.00	-0.26	PVC	2	44'-84'	40	0.01	277.51	0	H	ENSAFE	OPEN	BLA
159	007G44LF	AOC A	811223.5	394206.6	274.41	FLUVIAL	MW-RFI-A	FG	021799	85.00	0.04	PVC	2	45'-85'	40	0.01	274.37	4	H	ENSAFE	OPEN	BLA
160	007G45LF	AOC A	811901.4	394931.5	276.90	FLUVIAL	MW-RFI-A	FG	021999	83.00	-0.17	PVC	2	43'-83'	40	0.01	277.07	0	H	ENSAFE	OPEN	BLA
161	007G46LF	AOC A	812114.6	392830.6	275.92	FLUVIAL	MW-RFI-A	FG	022199	82.00	-0.29	PVC	2	42'-82'	40	0.01	276.21	0	H	ENSAFE	OPEN	BLA
162	007G47LF	AOC A	814805.3	397855.1	302.04	FLUVIAL	MW-RFI-A	FG	022099	82.00	-0.18	PVC	2	72'-82'	10	0.01	302.22	0	H	ENSAFE	OPEN	BLA
163	007G48LF	AOC A	812942.1	396174.7	279.71	FLUVIAL	MW-RFI-A	FG	022399	113.00	-0.18	PVC	2	43'-113'	70	0.01	279.89	0	H	ENSAFE	OPEN	BLA
164	007G49LF	AOC A	814783.2	392931.0	289.68	FLUVIAL	MW-RFI-A	FG	041399	98	0.3	PVC	2	56.5'-96.5'	40	0.01	289.98	0	H	ENSAFE	OPEN	BLA
165	007G50LF	AOC A	809491.8	393883.0	271.11	FLUVIAL	MW-RFI-A	AG	07_99	ND	ND	PVC	2	ND	ND	0.01	261.71	4	H	USGS	CLOSED	

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CNT	ID	SITE	EASTING	NORTHING	TOC	FORM	TYPE	MOUNT	INSTALLED	TD	STKUP	MAT	DIA	SCRNINVL	SCRNL	SCRNS	GND_MSL	POST	CAP	CONTRACTOR	STATUS	NOTES
166	007G51LF	AOC A	808735.7	397084.8	278.73	FLUVIAL	MW-RFI-A	FG	07_99	ND	ND	PVC	2	ND	ND	0.01	279.17	0	H	USGS	CLOSED	
167	007G52LF	AOC A	812022.1	395738.0	278.20	FLUVIAL	MW-RFI-A	AG	071499	85	2.86	PVC	2	75'-85'	10	0.01	275.34	4	H	ENSAFE	OPEN	BLA
168	007G53LF	AOC A	812124.5	396195.0	280.16	FLUVIAL	MW-RFI-A	AG	071499	78	3.04	PVC	2	68'-78'	10	0.01	277.12	4	H	ENSAFE	OPEN	BLA
169	007G54LF	AOC A	812878.3	392837.0	278.64	FLUVIAL	MW-RFI-A	AG	072099	85	-0.3	PVC	2	75'-85'	10	0.01	278.94	4	H	ENSAFE	OPEN	BLA
170	007G55LF	AOC A	810649.4	398360.0	282.00	FLUVIAL	MW-RFI-A	AG	072099	105	3.24	PVC	2	85'-105'	10	0.01	278.76	4	BOX	ENSAFE	OPEN	BLA
171	007G56LF	AOC A	811099.6	398282.0	280.63	FLUVIAL	MW-RFI-A	AG	072099	115	3.54	PVC	2	105'-115'	10	0.01	277.09	4	H	ENSAFE	OPEN	BLA
172	007G57LF	AOC A	813751.3	392231.8	281.71	FLUVIAL	MW-CMS	FG	120399	75	-1.87	PVC	4	42'-72'	30	0.01	283.58	0	H	ENSAFE	OPEN	BLA; CMS; original TOC =
173	007G58LF	AOC A	813775.4	392157.5	283.21	FLUVIAL	MW-CMS	FG	120399	80	-0.41	PVC	4	42'-72'	30	0.01	283.63	0	H	ENSAFE	OPEN	BLA; CMS; resurveyed 3/00
174	007G59LF	AOC A	813790.3	392164.0	283.19	FLUVIAL	MW-CMS	FG	120399	75	-0.32	PVC	4	42'-72'	30	0.01	283.53	0	H	ENSAFE	OPEN	BLA; CMS; resurveyed 3/00
175	007G60LF	AOC A	813797.4	392114.0	282.42	FLUVIAL	MW-CMS	FG	120399	85	-1.24	PVC	4	45'-75'	30	0.01	283.26	0	H	ENSAFE	OPEN	BLA; CMS
176	007G61LF	AOC A	813813.1	392122.5	282.55	FLUVIAL	MW-CMS	FG	120399	75	-0.97	PVC	4	45'-75'	30	0.01	283.04	0	H	ENSAFE	OPEN	BLA; CMS
177	007G62LF	AOC A	813795.3	392125.2	283.37	FLUVIAL	MW-CMS	FG	80300	75	-0.3	PVC	2	45' - 75'	30	0.01	283.37	0	H	ENSAFE	OPEN	BLA
178	007G63LF	AOC A	813806.5	392130.7	283.40	FLUVIAL	MW-CMS	FG	80300	75	-0.24	PVC	2	45' - 75'	30	0.01	283.4	0	H	ENSAFE	OPEN	BLA
179	007G64LF	AOC A	813740.0	392219.8	283.55	FLUVIAL	MW-CMS	FG	40604	77	-0.21	PVC	2	40.5'-70.5'	30	0.01	283.76	0	H	ENSAFE	OPEN	BLA
180	007G65LF	AOC A	813692.0	392332.9	282.96	FLUVIAL	MW-CMS	FG	40704	77	-0.59	PVC	2	40'-70'	30	0.01	283.55	0	H	ENSAFE	OPEN	BLA
181	007G66LF	AOC A	813777.4	392137.2	283.40	FLUVIAL	MW-CMS	FG	40804	78	-0.39	PVC	2	41'-71'	30	0.01	283.79	0	H	ENSAFE	OPEN	BLA
182	007G67LF	AOC A	813911.2	391933.7	283.32	FLUVIAL	MW-CMS	FG	41204	79	-0.49	PVC	4	47.8'-77.8'	30	0.02	283.81	0	H	ENSAFE	OPEN	BLA
183	007G68LF	AOC A	813708.8	392291.2	283.55	FLUVIAL	MW-CMS	FG	41304	78	-0.22	PVC	4	40.5'-70.5'	30	0.02	283.77	0	H	ENSAFE	OPEN	BLA
184	007G69LF	AOC A	813898.7	392691.0	284.86	FLUVIAL	MW-CMS	FG	41404	78	-0.31	PVC	2	45'-75'	30	0.01	285.17	0	H	ENSAFE	OPEN	BLA
185	007G70LF	AOC A	813738.4	392305.6	283.37	FLUVIAL	MW-CMS	FG	41604	78	-0.27	PVC	4	44'-74'	30	0.02	283.64	0	H	ENSAFE	OPEN	BLA
186	007G71LF	AOC A	813612.4	392535.2	283.49	FLUVIAL	MW-CMS	FG	41904	78	-0.28	PVC	2	60'-75'	15	0.01	283.77	0	H	ENSAFE	OPEN	BLA
187	007G72LF	AOC A	813638.9	392457.0	283.86	FLUVIAL	MW-CMS	FG	42004	78	-0.19	PVC	4	45'-75'	30	0.02	284.05	0	H	ENSAFE	OPEN	BLA
188	007G73LF	AOC A	813694.4	392480.3	284.17	FLUVIAL	MW-CMS	FG	42204	70.5	-0.21	PVC	4	40'-70'	30	0.02	284.38	0	H	ENSAFE	OPEN	BLA
189	007G74LF	AOC A	813781.1	392200.3	283.22	FLUVIAL	MW-CMS	FG	42704	78	-0.31	PVC	4	40'-70'	30	0.02	283.53	0	H	ENSAFE	OPEN	BLA
190	007G75LF	AOC A	813666.6	392468.1	283.96	FLUVIAL	MW-CMS	FG	42904	80	-0.28	PVC	4	44'-74'	30	0.02	284.24	0	H	ENSAFE	OPEN	BLA
191	007G76LF	AOC A	813755.5	392187.3	283.54	FLUVIAL	MW-CMS	FG	42904	80	-0.3	PVC	4	43'-73'	30	0.02	283.84	0	H	ENSAFE	OPEN	BLA
192	007G77LF	AOC A	813943.7	392655.4	285.34	FLUVIAL	MW-CMS	FG	43004	78	-0.29	PVC	4	45'-75'	30	0.02	285.63	0	H	ENSAFE	OPEN	BLA
193	007G78LF	AOC A	813918.4	392641.2	285.19	FLUVIAL	MW-CMS	FG	50404	78	-0.24	PVC	4	47'-77'	30	0.02	285.43	0	H	ENSAFE	OPEN	BLA
194	HARRIS	AOC A	809840.1	399819.8	284.58	FLUVIAL	PRIVATE	AG	ND	ND	ND	PVC	ND	ND	ND	ND	ND	0	ND	MIZE	CLOSED	Not in use. Behind house
195	WILLIAMS	AOC A	801098.4	399105.3	280.03	FLUVIAL	PRIVATE	AG	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	P	ND	OPEN	Nursery well
196	007GGM09MF	AOC A	813750.0	392002.0	283.79	FLUVIAL	MW-RFI-A	FG	061085	48.9	0	PVC	2	ND	ND	ND	283.79	0	N	G&M	CLOSED	BLA; aka OGMG09MF
197	007GMCNA	AOC A	812147.0	397981.0	289.59	FLUVIAL	PRIVATE	AG	ND	ND	ND	PVC	2	ND	ND	ND	282.00	0	N	UNKNOWN	CLOSED	aka U-119 (McNa)
198	007GPZ01	AOC A	814764.1	394828.4	295.49	FLUVIAL	MW-RFI-A	FG	112098	65	1	PVC	1	55' - 65'	10	0.01	296	0	H	ENSAFE	OPEN	BLA
199	007GPZ02	AOC A	812554.9	394404.1	281.53	FLUVIAL	MW-RFI-A	FG	112098	65	0	PVC	1	55' - 65'	10	0.01	282	0	H	ENSAFE	OPEN	BLA
200	007GPZ03	AOC A	812309.5	395402.1	278.18	FLUVIAL	MW-RFI-A	FG	112098	85	0	PVC	1	75' - 85'	10	0.01	279	0	H	ENSAFE	OPEN	BLA
201	007GPZ04	AOC A	811191.7	392225.5	269.58	FLUVIAL	MW-RFI-A	FG	112098	87	0	PVC	1	75' - 85'	10	0.01	270	0	H	ENSAFE	CLOSED	BLA
202	008G01FL	008	816350.3	398026.2	324.83	FLUVIAL	MW-RFI-A	AG	013195	50	2.69	PVC	2	30'-35'	5	0.01	322.14	0	N	E/A&H	CLOSED	BLA
203	008G02FL	008	816085.4	397857.5	327.56	FLUVIAL	MW-RFI-A	AG	021095	36.28	2.35	PVC	2	26.8' - 36.8'	10	0.01	324.94	0	N	E/A&H	CLOSED	BLA
204	008G02LS	008	816109.0	397873.0	ND	LOESS	MW-RFI-A	AG	020195	20	ND	PVC	2	10'-20'	10	0.01	325	0	N	E/A&H	CLOSED	BLA
205	008G03FL	008	816082.4	397926.7	327.46	FLUVIAL	MW-RFI-A	AG	020995	32.47	2.14	PVC	2	22' - 32'	10	0.01	325.23	0	N	E/A&H	CLOSED	BLA
206	008G04FL	008	816099.6	397986.2	327.37	FLUVIAL	MW-RFI-A	AG	020995	32.26	2.71	PVC	2	22.8' - 31.8'	10	0.01	324.43	0	N	E/A&H	CLOSED	BLA
207	008GGM10LS	008	816168.9	397849.4	329.56	LOESS	MW-RFI-BG	AG	061385	53	2.43	PVC	2	ND	ND	0.01	327.13	0	N	G&M	CLOSED	BLA
208	008GGM11LS	008	816198.1	398032.6	322.06	LOESS	MW-RFI-BG	AG	061485	30	2.73	PVC	2	25'-30'	5	0.01	319.33	0	N	G&M	CLOSED	BLA
209	008GGM12LS	008	816347.0	398050.4	324.89	LOESS	MW-RFI-BG	AG	061390	25.00	2.74	PVC	2	20'-25'	5	0.01	322.15	0	N	G&M	CLOSED	BLA
210	009G01DA	009	814004.6	383197.5	271.62	ALLUVIUM	MW-RFI-E	AG	021596	56	1.93	PVC	2	46' - 56'	10	0.01	269.69	4	H	E/A&H	CLOSED	BLA
211	009G02DA	009	813641.1	382613.2	270.80	ALLUVIUM	MW-RFI-E	AG	021696	46	1.95	PVC	2	36' - 46'	10	0.01	268.85	4	H	E/A&H	CLOSED	BLA
212	009G03DA	009	812919.4	382996.7	269.05	ALLUVIUM	MW-RFI-E	AG	020196	55	1.87	PVC	2	45' - 55'	10	0.01	267.18	4	H	E/A&H	CLOSED	BLA
213	009G04DA	009	813235.5	383635.2	270.09	ALLUVIUM	MW-RFI-E	AG	021596	72	1.94	PVC	2	62' - 72'	10	0.01	268.15	4	H	E/A&H	CLOSED	BLA
214	014G01LF	014	815126.6	386066.9	269.11	FLUVIAL	MW-RFI-E	AG	012996	47	1.868	PVC	2	37' - 47'	10	0.01	267.242	4	H	E/A&H	OPEN	BLA
215	014G01LS	014	815133.7	386066.3	269.17	LOESS	MW-RFI-E	AG	012996	20.4	1.80500	PVC	2	10.4' - 20.4'	10	0.01	267.365	4	H	E/A&H	OPEN	BLA
216	014G02LS	014	815131.9	385878.0	270.12	LOESS	MW-RFI-E	AG	021496	20	1.67599	PVC	2	10' - 20'	10	0.01	268.444	4	H	E/A&H	OPEN	BLA
217	014G03LS	014	815258.5	385850.7	271.09	LOESS	MW-RFI-E	AG	021496	20	2.45499	PVC	2	10' - 20'	10	0.01	268.635	4	H	E/A&H	OPEN	BLA
218	014G04LF	014	815252.6	385792.7	270.88	FLUVIAL	MW-RFI-E	AG	012396	49	2.06099	PVC	2	39' - 49'	10	0.01	268.819	4	H	E/A&H	OPEN	BLA
219	014G05LS	014	815048.7	385749.7	270.12	LOESS	MW-RFI-E	AG	012196	20	1.88	PVC	2	10' - 20'	10	0.01	268.24	4	H	E/A&H	OPEN	BLA
220	014G06LF	014	815038.1	385800.0	270.57	FLUVIAL	MW-RFI-E	AG	012196	49	1.94599	PVC	2	39' - 49'	10	0.01	268.624	4	H	E/A&H	OPEN	BLA

**GROUNDWATER MONITORING WELL MANAGEMENT PLAN  
NSA MID-SOUTH DATABASE**

CNT	ID	SITE	EASTING	NORTHING	TOC	FORM	TYPE	MOUNT	INSTALLED	TD	STKUP	MAT	DIA	SCRNINVL	SCRNL	SCRNS	GND_MSL	POST	CAP	CONTRACTOR	STATUS	NOTES
221	014G07LF	014	815100.1	385917.7	270.63	FLUVIAL	MW-RFI-E	AG	012296	48	1.74799	PVC	2	38' - 48'	10	0.01	268.882	4	H	E/A&H	OPEN	BLA
222	014G08LS	014	815021.2	385941.3	268.14	LOESS	MW-RFI-E	FG	012296	20	-0.5	PVC	2	10' - 20'	10	0.01	268.515	0	H	E/A&H	OPEN	BLA
223	014G09LS	014	815202.1	385885.9	269.96	LOESS	MW-CMS-E	AG	042202	20	1.93	PVC	2	10'-20'	10	0.01	268.03	0	H	ENSAFE	OPEN	BLA
224	014G10LS	014	815084.1	385960.1	270.83	LOESS	MW-CMS-E	AG	042202	20	2.21	PVC	2	10'-20'	10	0.01	268.62	0	H	ENSAFE	OPEN	BLA
225	014G11LS	014	815199.1	385970.7	269.96	LOESS	MW-CMS-E	AG	042202	20	2.11	PVC	2	10'-20'	10	0.01	267.85	0	H	ENSAFE	OPEN	BLA
226	014G12LS	014	815098.2	385885.7	268.33	LOESS	MW-CMS-E	AG	010505	24	-0.28	PVC	2	14'-24'	10	0.01	268.61	0	H	ENSAFE	OPEN	BLA
227	014G13LS	014	815099.0	385863.4	268.41	LOESS	MW-CMS-E	FG	010405	25	-0.17	PVC	2	15'-25'	10	0.01	268.58	0	H	ENSAFE	OPEN	BLA
228	014G14LS	014	815119.2	385842.7	268.17	LOESS	MW-CMS-E	FG	010605	24	-0.32	PVC	2	14'-24'	10	0.01	268.49	0	H	ENSAFE	OPEN	BLA
229	014G15LS	014	815117.2	385910.9	268.26	LOESS	MW-CMS-E	FG	010505	24	-0.15	PVC	4	14'-24'	10	0.01	268.41	0	H	ENSAFE	OPEN	BLA
230	014G16LS	014	815108.2	385887.0	268.18	LOESS	MW-CMS-E	FG	010505	24	-0.06	PVC	4	14'-24'	10	0.01	268.24	0	H	ENSAFE	OPEN	BLA
231	014G17LS	014	815148.1	385891.2	267.96	LOESS	MW-CMS-E	FG	010505	24	-0.04	PVC	4	14'-24'	10	0.01	268.00	0	H	ENSAFE	OPEN	BLA
232	014G18LS	014	815136.7	385860.5	268.01	LOESS	MW-CMS-E	FG	010605	24	0.12	PVC	4	14'-24'	10	0.01	267.89	0	H	ENSAFE	OPEN	BLA
233	015G01LF	015	812901.2	391853.0	281.90	FLUVIAL	MW-RFI-C	AG	031396	85	2.43	PVC	2	75' - 85'	10	0.01	279.47	4	H	E/A&H	OPEN	BLA
234	015G01UF	015	812907.5	391856.2	282.06	FLUVIAL	MW-RFI-C	AG	031496	50	2.43	PVC	2	40' - 50'	10	0.01	279.63	4	H	E/A&H	OPEN	BLA
235	015G02LF	015	813106.3	391548.8	282.85	FLUVIAL	MW-RFI-C	FG	030696	85	-0.42	PVC	2	75' - 85'	10	0.01	283.36	0	H	E/A&H	OPEN	BLA
236	015G02UF	015	813100.0	391544.2	283.00	FLUVIAL	MW-RFI-C	FG	031196	46	-0.34	PVC	2	36' - 46'	10	0.01	283.2	0	H	E/A&H	OPEN	BLA
237	015G03LF	015	812773.0	391349.6	282.55	FLUVIAL	MW-RFI-C	AG	031296	88	2.26	PVC	2	78' - 88'	10	0.01	280.29	0	H	E/A&H	OPEN	BLA
238	015G03UF	015	812766.6	391345.7	282.36	FLUVIAL	MW-RFI-C	AG	031296	54	2.26	PVC	2	44' - 54'	10	0.01	280.1	0	H	E/A&H	OPEN	BLA
239	015G04LF	015	812722.5	391769.5	280.41	FLUVIAL	MW-RFI-C	AG	031396	96	2.41	PVC	2	86' - 96'	10	0.01	278	0	H	E/A&H	OPEN	BLA
240	015G04UF	015	812728.9	391773.3	280.55	FLUVIAL	MW-RFI-C	AG	031396	46	2.41	PVC	2	46' - 56'	10	0.01	278.14	0	H	E/A&H	OPEN	BLA
241	015G01LS	015	812943.1	391407.4	278.52	LOESS	MW-CMS-C	AG	042602	18	1.71	PVC	2	8' - 18'	10	0.01	276.81	0	H	ENSAFE	CLOSED	BLA
242	015G02LS	015	813041.7	391467.4	280.04	LOESS	MW-CMS-C	AG	042602	18	2.02	PVC	2	8' - 18'	10	0.01	278.02	0	H	ENSAFE	CLOSED	BLA
243	015G03LS	015	812862.1	391514.8	279.40	LOESS	MW-CMS-C	AG	042502	19	1.58	PVC	2	8.5' - 18.5'	10	0.01	277.82	0	H	ENSAFE	CLOSED	BLA
244	015G04LS	015	812951.2	391539.2	280.51	LOESS	MW-CMS-C	AG	042602	20	2.02	PVC	2	9.8' - 19.8'	10	0.01	278.49	0	N	ENSAFE	CLOSED	BLA
245	015G05LS	015	813050.3	391577.1	282.95	LOESS	MW-CMS-C	AG	042502	20	2.23	PVC	2	9' - 19'	10	0.01	280.72	0	H	ENSAFE	CLOSED	BLA
246	015G06UF	015	812865.3	391649.2	279.82	FLUVIAL	MW-CMS-C	AG	042402	38	1.89	PVC	2	28' - 38'	10	0.01	277.93	0	N	ENSAFE	CLOSED	BLA
247	015G07LS	015	812956.5	391656.5	280.72	LOESS	MW-CMS-C	AG	042402	23	1.85	PVC	2	11' - 21'	10	0.01	278.87	0	N	ENSAFE	CLOSED	BLA
248	015G08LS	015	812949.7	391786.1	282.53	LOESS	MW-CMS-C	AG	061202	20	2.74	PVC	2	10' - 20'	10	0.01	279.79	0	H	ENSAFE	OPEN	BLA
249	015GRW01	015	812950.8*	391568.6*	ND	LOESS	SUMP WELL	AG	ND	ND	ND	PVC	6	ND	ND	ND	ND	4		STEP	OPEN	BLA
250	015GRW02	015	812912.2*	391509.3*	ND	LOESS	SUMP WELL	AG	ND	ND	ND	PVC	6	ND	ND	ND	ND	4		STEP	OPEN	BLA
251	018G01LF	018	814582.6	391519.4	289.07	FLUVIAL	MW-RFI-C	FG	041399	93	-0.24	PVC	2	48'-88'	40	0.01	289.31	0	H	ENSAFE	OPEN	BLA
252	020G01LF	020	813075.9	385490.4	266.05	FLUVIAL	MW-RFI-F	AG	041099	76	-0.18	PVC	2	46'-76'	30	0.01	266.23	0	H	ENSAFE	CLOSED	BLA
253	020GPZ01	020	813182.4	385585.0	265.72	FLUVIAL	MW-RFI-F	FG	041099	50.25	ND	PVC	1	45.25' - 50.25'	5	0.01	ND	0	H	ENSAFE	CLOSED	BLA
254	020GPZ02	020	813150.8	385479.3	265.93	FLUVIAL	MW-RFI-F	FG	041099	49.00	ND	PVC	1	44 - 49'	5	0.01	ND	0	H	ENSAFE	CLOSED	BLA
255	020GPZ03	020	813090.0	385488.6	266.11	FLUVIAL	MW-RFI-F	FG	041099	47.00	ND	PVC	1	42' - 47'	5	0.01	ND	0	H	ENSAFE	CLOSED	BLA
256	021G01LF	021	814865.6	391801.7	293.42	FLUVIAL	MW-RFI-C	FG	022196	90	-0.63	PVC	2	80' - 90'	10	0.01	293.82	0	H	E/A&H	OPEN	BLA
257	021G02LF	021	814933.3	391671.8	294.57	FLUVIAL	MW-RFI-C	FG	022796	87	-0.42	PVC	2	77' - 87'	10	0.01	294.74	0	H	E/A&H	OPEN	BLA
258	021G03LF	021	814804.1	391671.8	294.43	FLUVIAL	MW-RFI-C	AG	022896	88	2.2	PVC	2	78' - 88'	10	0.01	292.23	4	H	E/A&H	OPEN	BLA
259	021G04UF	021	814863.1	391696.1	295.71	FLUVIAL	MW-RFI-C	AG	022796	50	2.05	PVC	2	40' - 50'	10	0.01	293.66	4	H	E/A&H	OPEN	BLA
260	039G01LF	039	811597.6	387714.0	261.13	FLUVIAL	MW-RFI-F	FG	032399	78	-0.31	PVC	2	44' - 74'	30	0.01	261.13	0	H	ENSAFE	OPEN	BLA
261	039G02LF	039	811343.9	387743.7	263.47	FLUVIAL	MW-RFI-F	FG	032499	108	-0.17	PVC	2	43' - 103'	60	0.01	263.47	0	H	ENSAFE	OPEN	BLA
262	039G03LF	039	811251.2	387798.6	262.33	FLUVIAL	MW-RFI-F	FG	032599	108	-0.41	PVC	2	43' - 103'	60	0.01	262.33	0	H	ENSAFE	OPEN	BLA
263	039G04LF	039	811236.1	387585.3	263.17	FLUVIAL	MW-RFI-F	FG	032699	103	-0.23	PVC	2	43' - 103'	60	0.01	263.17	0	H	ENSAFE	OPEN	BLA
264	039G05LF	039	811236.9	387399.9	262.43	FLUVIAL	MW-RFI-F	FG	032799	98	-0.27	PVC	2	43' - 93'	50	0.01	262.43	0	H	ENSAFE	OPEN	BLA
265	039G06LF	039	810731.7	387798.0	260.96	FLUVIAL	MW-RFI-F	FG	032999	78	-0.29	PVC	2	40' - 70'	30	0.01	260.96	0	H	ENSAFE	OPEN	BLA
266	039G07LF	039	810718.5	387575.9	262.79	FLUVIAL	MW-RFI-F	FG	033099	98	-0.35	PVC	2	43' - 93'	50	0.01	262.79	0	H	ENSAFE	OPEN	BLA
267	039G08LF	039	810721.7	387194.3	262.85	FLUVIAL	MW-RFI-F	FG	040699	98	-0.16	PVC	2	45' - 95'	50	0.01	263.01	0	H	ENSAFE	OPEN	BLA
268	039G09LF	039	810634.4	387368.2	262.85	FLUVIAL	MW-RFI-F	FG	040799	98	-0.19	PVC	2	43.5' - 93.5'	50	0.01	262.85	0	H	ENSAFE	OPEN	BLA
269	039G10LF	039	811133.4	387478.0	263.59	FLUVIAL	MW-CMS-F	FG	052202	94	-0.31	PVC	2	84' - 94'	10	0.01	263.9	0	H	ENSAFE	OPEN	BLA
270	039G11LF	039	811095.8	387572.2	263.05	FLUVIAL	MW-CMS-F	FG	052002	97	-0.1	PVC	2	87' - 97'	10	0.01	263.15	0	H	ENSAFE	OPEN	BLA
271	039G12LF	039	811122.5	387690.5	262.61	FLUVIAL	MW-CMS-F	FG	052102	91	-0.17	PVC	2	81' - 91'	10	0.01	262.78	0	H	ENSAFE	OPEN	BLA
272	039G13LF	039	811279.8	387918.4	263.76	FLUVIAL	MW-CMS-F	FG	052202	98	-0.22	PVC	2	88' - 98'	10	0.01	263.98	0	H	ENSAFE	OPEN	BLA
273	039G14LF	039	811251.4	387726.5	262.75	FLUVIAL	MW-CMS-F	FG	011105	102	-0.42	PVC	2	72'-102'	30	0.01	263.17	0	H	ENSAFE	OPEN	BLA
274	039G15LF	039	811222.2	387667.1	262.64	FLUVIAL	MW-CMS-F	FG	011805	98	-0.29	PVC	2	68'-98'	30	0.01	262.93	0	H	ENSAFE	OPEN	BLA
275	039G16LF	039	811264.2	387800.2	262.82	FLUVIAL	MW-CMS-F	FG	011005	102	-0.49	PVC	4	72'-102'	30	0.01	263.31	0	H	ENSAFE	OPEN	BLA

**GROUNDWATER MONITORING WELL MANAGEMENT PLAN  
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CNT	ID	SITE	EASTING	NORTHING	TOC	FORM	TYPE	MOUNT	INSTALLED	TD	STKUP	MAT	DIA	SCRNINVL	SCRNL	SCRNS	GND_MSL	POST	CAP	CONTRACTOR	STATUS	NOTES
276	039G17LF	039	811340.9	387720.4	263.54	FLUVIAL	MW-CMS-F	FG	010705	102	-0.15	PVC	4	72'-102'	30	0.01	263.69	0	H	ENSAFE	OPEN	BLA
277	039G18LF	039	811228.6	387706.8	262.70	FLUVIAL	MW-CMS-F	FG	011905	99	-0.18	PVC	4	69'-99'	30	0.01	262.88	0	H	ENSAFE	OPEN	BLA
278	039G19LF	039	811242.9	387682.4	262.35	FLUVIAL	MW-CMS-F	FG	011205	99	-0.25	PVC	4	69'-99'	30	0.01	262.60	0	H	ENSAFE	OPEN	BLA
279	039G20LF	039	811235.8	387638.0	262.72	FLUVIAL	MW-CMS-F	FG	011305	99.4	-0.39	PVC	4	69.4'-99.4'	30	0.01	263.11	0	H	ENSAFE	OPEN	BLA
280	039G21LF	039	811237.7	387605.9	263.43	FLUVIAL	MW-CMS-F	FG	012005	103	-0.11	PVC	4	73'-103'	30	0.01	263.54	0	H	ENSAFE	OPEN	BLA
281	039G22LF	039	811217.6	387610.1	262.92	FLUVIAL	MW-CMS-F	FG	011805	100	-0.44	PVC	2	70'-100'	30	0.01	263.36	0	H	ENSAFE	OPEN	BLA
282	039GPZ01	039	811197.0	387617.0	265.30	FLUVIAL	MW-RFI-F	FG	03_99	ND	ND	PVC	1	ND	5	0.01	ND	0	N	ENSAFE	CLOSED	
283	039GPZ02	039	810935.0	387403.8	266.33	FLUVIAL	MW-RFI-F	FG	03_99	ND	ND	PVC	1	ND	5	0.01	ND	0	N	ENSAFE	CLOSED	
284	039GPZ03	039	810725.3	387658.6	265.35	FLUVIAL	MW-RFI-F	FG	03_99	ND	ND	PVC	1	ND	5	0.01	ND	0	N	ENSAFE	CLOSED	
285	039GPZ04	039	811356.7	387872.3	263.52	FLUVIAL	MW-RFI-F	FG	03_99	53.5	-0.2	PVC	1	48.5' - 53.5'	5	0.01	263.72	0	H	ENSAFE	OPEN	
286	039GPZ05	039	810613.2	387386.8	262.81	FLUVIAL	MW-RFI-F	FG	03_99	54.00	ND	PVC	1	49' - 54'	5	0.01	ND	0	H	ENSAFE	OPEN	
287	041G01DA	041	812681.5	384512.4	267.51	ALLUVIUM	MW-RFI-G	AG	040899	88	2.43	PVC	2	46'-86'	40	0.01	267.51	4	H	ENSAFE	CLOSED	BLA
288	041G02DA	041	812495.7	384355.3	265.92	ALLUVIUM	MW-RFI-G	AG	040999	88	2.84	PVC	2	46.3'-81.3'	35	0.01	265.92	4	H	ENSAFE	CLOSED	BLA
289	041G03DA	041	812587.1	384309.2	265.41	ALLUVIUM	MW-RFI-G	AG	041199	83	2.33	PVC	2	44'-79'	35	0.01	265.41	4	H	ENSAFE	CLOSED	BLA
290	041G04DA	041	812661.7	384255.6	264.93	ALLUVIUM	MW-RFI-G	AG	041199	88	2.39	PVC	2	44.6'-79.6'	35	0.01	264.93	4	H	ENSAFE	CLOSED	BLA
291	059G01LS	059	810896.8	386895.3	263.24	LOESS	MW-RFI-E	FG	030496	20	-0.35	PVC	2	10' - 20'	10	0.01	263.403	0	N	E/A&H	CLOSED	BLA
292	059G02LS	059	810908.1	386812.6	265.18	LOESS	MW-RFI-E	AG	030296	20	2.01600	PVC	2	10' - 20'	10	0.01	263.164	0	N	E/A&H	CLOSED	BLA
293	059G03LS	059	810849.3	386742.5	263.35	LOESS	MW-RFI-E	FG	030496	20	-0.34	PVC	2	10' - 20'	10	0.01	263.535	0	H	E/A&H	CLOSED	BLA
294	059G03UF	059	810847.9	386731.5	263.32	FLUVIAL	MW-RFI-E	FG	030496	50	-0.42	PVC	2	40' - 50'	10	0.01	263.506	0	H	E/A&H	CLOSED	BLA
295	060G01LF	060	810324.8	391547.5	271.44	FLUVIAL	MW-RFI-A	AG	020295	75	2.25	PVC	2	65'-75'	10	0.01	269.19	0	N	E/A&H	CLOSED	BLA
296	060G01LS	060	810333.5	391535.9	271.88	LOESS	MW-RFI-A	AG	020295	18.65	2.13	PVC	2	ND	ND	0.01	269.75	0	N	E/A&H	CLOSED	
297	060G02LF	060	810214.2	391352.9	270.90	FLUVIAL	MW-RFI-A	AG	020295	95.56	2.47	PVC	2	85.1' - 95.1'	10	0.01	268.36	4	H	E/A&H	CLOSED	BLA
298	060G02LS	060	810219.4	391344.6	270.84	LOESS	MW-RFI-A	AG	020195	22.68	1.99	PVC	2	12.2' - 22.2'	10	0.01	268.75	0	N	E/A&H	CLOSED	BLA
299	060G03LF	060	810464.9	391136.7	271.52	FLUVIAL	MW-RFI-A	AG	020795	90.63	2.62	PVC	2	80.1' - 90.1'	10	0.01	268.83	0	N	E/A&H	CLOSED	BLA
300	060G03LS	060	810470.1	391142.5	271.40	LOESS	MW-RFI-A	AG	020195	22.51	1.77	PVC	2	12' - 22'	10	0.01	269.63	0	N	E/A&H	CLOSED	BLA
301	060G04LF	060	810594.2	391301.2	272.31	FLUVIAL	MW-RFI-A	AG	020895	99.8	2.64	PVC	2	89.3' - 99.3'	10	0.01	269.56	4	H	E/A&H	CLOSED	BLA
302	060G04LS	060	810601.7	391307.6	272.11	LOESS	MW-RFI-A	AG	013195	22.62	2.54	PVC	2	12.1' - 22.1'	10	0.01	269.45	0	N	E/A&H	CLOSED	BLA
303	060G05LS	060	810348.0	391584.0	272.00	LOESS	MW-RFI-A	AG	021395	20	2.3	PVC	2	10'-20'	10	0.01	269.7	0	N	E/A&H	CLOSED	BLA
304	060G06LS	060	810398.3	391535.2	271.98	LOESS	MW-RFI-A	AG	021395	20	2.13	PVC	2	10'-20'	10	0.01	269.75	0	N	E/A&H	CLOSED	BLA
305	065G05UA	065	814269.9	384057.1	266.04	ALLUVIUM	MW-RFI-E	AG	021796	20	1.94	PVC	2	10' - 20'	10	0.01	264.1	0	N	E/A&H	CLOSED	BLA
306	065G06DA	065	814217.6	383725.2	266.12	ALLUVIUM	MW-RFI-E	AG	021796	42	1.94	PVC	2	32' - 42'	10	0.01	264.18	4	H	E/A&H	CLOSED	BLA
307	065G06UA	065	814227.2	383723.3	266.28	ALLUVIUM	MW-RFI-E	AG	021796	20	2.03	PVC	2	10' - 20'	10	0.01	264.25	4	H	E/A&H	CLOSED	BLA
308	065G07UA	065	814046.4	383800.0	264.86	ALLUVIUM	MW-RFI-E	AG	021796	20	2.01	PVC	2	10' - 20'	10	0.01	262.85	4	H	E/A&H	CLOSED	BLA
309	065MW01UA	065	814256.0	383927.0	263.74	ALLUVIUM	MW-RFI-E	FG	102992	15	-0.2	PVC	2	5' - 15'	10	0.01	263.94	0	N	MEC	CLOSED	BLA
310	065MW02UA	065	814232.0	383903.0	263.27	ALLUVIUM	MW-RFI-E	FG	110292	15	-0.23	PVC	2	5' - 15'	10	0.01	263.5	0	N	MEC	CLOSED	BLA
311	065MW03UA	065	814256.0	383882.0	263.17	ALLUVIUM	MW-RFI-E	FG	110292	15	-0.23	PVC	2	5' - 15'	10	0.01	263.3	0	N	MEC	CLOSED	BLA
312	065MW04UA	065	814271.0	383900.0	263.59	ALLUVIUM	MW-RFI-E	FG	110292	15	-0.15	PVC	2	5' - 15'	10	0.01	263.74	0	N	MEC	CLOSED	BLA
313	066G01FL	066	817162.6	394651.7	319.47	FLUVIAL	MW-RFI-A	AG	050498	37	2.39	PVC	2	27'-37'	10	0.01	317.08	0	N	ENSAFE	CLOSED	
314	0BGG01LF	2033	819343.2	389919.2	286.57	FLUVIAL	MW-RFI-BG	AG	010995	65.3	2.1	PVC	2	54.8' - 64.8'	10	0.01	286.33	4	H	E/A&H	CLOSED	BLA
315	0BGG01LS	2033	819356.7	389936.9	286.10	LOESS	MW-RFI-BG	AG	011095	18	1.38	PVC	2	7.5' - 17.5'	10	0.01	286.55	0	N	E/A&H	CLOSED	BLA
316	0BGG01UF	2033	819350.0	389927.5	286.68	FLUVIAL	MW-RFI-BG	AG	011495	46	2.04	PVC	2	35.5' - 45.5'	10	0.01	286.49	4	H	E/A&H	CLOSED	BLA
317	0BGG02LF	3048	817894.6	386844.7	274.74	FLUVIAL	MW-RFI-BG	AG	011795	64.25	2.06	PVC	2	53.8' - 63.8'	10	0.01	274.45	4	H	E/A&H	CLOSED	BLA
318	0BGG02LS	3048	817884.2	386825.0	274.87	LOESS	MW-RFI-BG	AG	011295	20	2.32	PVC	2	9.5' - 19.5'	10	0.01	274.32	0	N	E/A&H	CLOSED	BLA
319	0BGG02UF	3048	817889.7	386835.2	274.66	FLUVIAL	MW-RFI-BG	AG	011795	45.96	2	PVC	2	35.5' - 45.5'	10	0.01	271.76	4	H	E/A&H	CLOSED	BLA
320	0BGG03UC	N-119	818516.0	393711.0	ND	COCKFIELD	MW-RFI-BG	AG	ND	48.80	ND	PVC	2	ND	ND	0.01	321.19	0	N	ND	CLOSED	
321	0BGG04LF	S-8	811504.4	387056.4	264.63	FLUVIAL	MW-RFI-BG	AG	011195	70.5	2.19	PVC	2	60.5' - 70.5'	10	0.01	264.15	4	H	E/A&H	CLOSED	BLA
322	0BGG04LS	S-8	811484.9	387060.1	264.94	LOESS	MW-RFI-BG	AG	011195	20.5	2.5	PVC	2	10.5' - 20.5'	10	0.01	264.3	4	H	E/A&H	CLOSED	BLA
323	0BGG04UC	S-8	811514.7*	387054.7*	264.55*	COCKFIELD	MW-RFI-BG	AG	072198	105	2.04*	PVC	2	93' - 103'	10	0.01	264.3*	4	H	ENSAFE	CLOSED	BLA * = estimated
324	0BGG04UF	S-8	811494.2	387058.4	264.63	FLUVIAL	MW-RFI-BG	AG	011695	50	2.08	PVC	2	40' - 50'	10	0.01	264.26	4	H	E/A&H	CLOSED	BLA
325	0BGG05LF	BG5	810290.7	389941.4	268.02	FLUVIAL	MW-RFI-BG	AG	011295	78.17	2.133	PVC	2	68' - 78'	10	0.01	265.887	4	H	E/A&H	OPEN	BLA
326	0BGG05LS	BG5	810288.6	389919.8	268.61	LOESS	MW-RFI-BG	AG	011295	20.7	2.27	PVC	2	10.5' - 20.5'	10	0.01	266.34	0	N	E/A&H	CLOSED	BLA
327	0BGG05UF	BG5	810290.5	389930.9	268.18	FLUVIAL	MW-RFI-BG	AG	011295	55.03	1.92	PVC	2	44.5' - 54.5'	10	0.01	266.26	4	H	E/A&H	OPEN	BLA
328	0BGG06UC	1696	816808.1	395504.5	320.02	COCKFIELD	MW-RFI-BG	FG	022996	62	-0.34	PVC	2	52' - 62'	10	0.01	320.25	0	H	E/A&H	CLOSED	BLA
329	0BGG07UC	N-119	818506.5	393700.9	323.23	COCKFIELD	MW-RFI-BG	AG	030296	60	2.15	PVC	2	50' - 60'	10	0.01	321.08	4	H	E/A&H	CLOSED	BLA
330	0BGG08UF	N-125	820054.9	391868.3	299.67	FLUVIAL	MW-RFI-BG	FG	031796	60	-0.32	PVC	2	50' - 60'	10	0.01	299.88	0	H	E/A&H	CLOSED	BLA

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CNT	ID	SITE	EASTING	NORTHING	TOC	FORM	TYPE	MOUNT	INSTALLED	TD	STKUP	MAT	DIA	SCRNINVL	SCRNL	SCRNS	GND_MSL	POST	CAP	CONTRACTOR	STATUS	NOTES
331	OBGG09MF	1473	817163.7	390512.6	314.82	FLUVIAL	MW-RFI-BG	AG	040396	72	2.12	PVC	2	62' - 72'	10	0.01	312.7	4	H	E/A&H	CLOSED	BLA
332	OBGG09UF	1473	817167.8	390518.5	315.20	FLUVIAL	MW-RFI-BG	AG	031496	55	2.81	PVC	2	45' - 55'	10	0.01	312.39	0	N	E/A&H	CLOSED	BLA
333	OBGG10UF	378	811312.4	394211.1	275.50	FLUVIAL	MW-RFI-BG	AG	030196	66	1.92	PVC	2	56' - 66'	10	0.01	273.58	4	H	E/A&H	OPEN	BLA
334	OBGG11MA	344	810231.8	386390.5	263.84	ALLUVIUM	MW-RFI-BG	AG	021896	48	2.03	PVC	2	38' - 48'	10	0.01	261.81	4	H	E/A&H	CLOSED	BLA
335	OBGG12UF	S-238	814713.0	388949.4	268.71	FLUVIAL	MW-RFI-BG	FG	021896	46	-0.41	PVC	2	36' - 46'	10	0.01	268.9	0	H	E/A&H	CLOSED	BLA
336	OBGG13UF	HOSP	822202.5	389892.1	292.28	FLUVIAL	MW-RFI-BG	AG	030596	55	2.58	PVC	2	45' - 55'	10	0.01	289.7	4	H	E/A&H	CLOSED	BLA
337	OBGG14MF	1686	810851.0	389460.0	268.43	FLUVIAL	MW-RFI-BG	AG	030596	57.8	2.5	PVC	2	47' - 57'	10	0.01	265.98	4	H	E/A&H	CLOSED	BLA; originally JET1
338	75701LS	NEX	811786.0	389653.0	270.64	LOESS	MW-UST	FG	010787	20.7	-0.43	PVC	4	5.5' - 20.5'	14.8	0.02	271.07	0	H	HLA	CLOSED	BLA
339	75702LS	NEX	811835.0	389697.0	270.81	LOESS	MW-UST	FG	010887	19.6	-0.33	PVC	4	5' - 19'	14.8	0.02	271.14	0	N	HLA	CLOSED	BLA
340	75703LS	NEX	811753.0	389657.0	270.42	LOESS	MW-UST	FG	010887	19.9	-0.52	PVC	4	5' - 19'	14.8	0.02	270.94	0	H	HLA	CLOSED	BLA
341	75704LS	NEX	811758.0	389403.0	268.97	LOESS	MW-UST	FG	010987	19.7	-0.63	PVC	4	5' - 19'	14.8	0.02	269.6	0	H	HLA	CLOSED	BLA
342	75705LS	NEX	811917.0	389773.0	271.42	LOESS	MW-UST	FG	010987	19.7	-0.3	PVC	4	5' - 19'	14.8	0.02	271.72	0	H	HLA	CLOSED	BLA
343	75706LS	NEX	811924.0	389702.0	270.94	LOESS	MW-UST	FG	010987	19.7	-0.32	PVC	4	5' - 19'	14.8	0.02	271.26	0	H	HLA	CLOSED	BLA
344	75707LS	NEX	811713.0	389662.0	270.08	LOESS	MW-UST	FG	110387	25.5	-0.5	PVC	4	5' - 25'	20	0.02	270.58	0	H	HLA	CLOSED	BLA
345	75708LS	NEX	811823.0	389647.0	271.26	LOESS	MW-UST	FG	110387	25.5	-0.3	PVC	4	5' - 25'	20	0.02	271.56	0	H	HLA	CLOSED	BLA
346	75709LS	NEX	811763.0	389577.0	271.39	LOESS	MW-UST	FG	110487	25.5	-0.34	PVC	4	5' - 25'	20	0.02	271.73	0	H	HLA	CLOSED	BLA
347	75710LS	NEX	811808.0	389570.0	271.22	LOESS	MW-UST	FG	110487	25.5	-0.69	PVC	4	5' - 25'	20	0.02	271.91	0	H	HLA	CLOSED	BLA
348	75711LS	NEX	811860.4	389641.5	270.89	LOESS	MW-UST	FG	110587	25.5	-0.27	PVC	4	5' - 25'	20	0.02	271.67	0	H	HLA	CLOSED	BLA
349	75712LS	NEX	811804.0	389668.0	270.83	LOESS	MW-UST	FG	060190	30	-0.43	PVC	6	20' - 30'	10	0.02	271.26	0	N	ERCE	CLOSED	BLA
350	75713LS	NEX	811799.0	389659.0	270.80	LOESS	MW-UST	FG	060190	30	-0.28	PVC	4	26' - 30'	4	0.02	271.08	0	H	ERCE	CLOSED	BLA
351	75714LS	NEX	811809.0	389668.0	270.37	LOESS	MW-UST	FG	060490	29	-0.42	PVC	4	19' - 29'	9.5	0.02	270.79	0	N	ERCE	CLOSED	BLA
352	75715LS	NEX	811974.0	389780.0	272.29	LOESS	MW-UST	FG	060590	15	-0.35	PVC	4	5' - 15'	10	0.02	272.64	0	N	ERCE	CLOSED	BLA
353	75716LS	NEX	812079.0	389655.0	273.86	LOESS	MW-UST	FG	061390	15	-0.39	PVC	4	5' - 15'	9.5	0.02	274.25	0	H	ERCE	CLOSED	BLA
354	75717LS	NEX	811504.0	389700.0	268.71	LOESS	MW-UST	FG	061390	15	-0.32	PVC	4	5' - 15'	9.5	0.02	269.03	0	H	ERCE	CLOSED	BLA
355	75718LS	NEX	811666.0	389538.0	266.89	LOESS	MW-UST	FG	061390	15	-0.52	PVC	4	5' - 15'	9.5	0.02	267.41	0	H	ERCE	CLOSED	BLA
356	75719LS	NEX	811745.2	389890.7	268.80	LOESS	MW-UST	FG	061390	15	-0.55	PVC	4	5' - 15'	9.5	0.02	269.345	0	H	ERCE	CLOSED	BLA
357	757B1LD	NEX	812032.0	389712.0	275.10	TANK PIT	LD-UST	AG	02__86	15	0.82	PVC	4	ND	ND	ND	274.28	0	N	ND	CLOSED	BLA
358	757B2LD	NEX	811998.0	389725.0	274.66	TANK PIT	LD-UST	AG	02__86	15	0.71	PVC	4	ND	ND	ND	273.95	0	N	ND	CLOSED	BLA
359	757B3LD	NEX	812016.0	389641.0	274.63	TANK PIT	LD-UST	AG	02__86	15	0.4	PVC	4	ND	ND	ND	274.23	4	H	PSI	CLOSED	BLA
360	757B4LD	NEX	811962.0	389638.0	273.69	TANK PIT	LD-UST	AG	02__86	15	0.28	PVC	4	ND	ND	ND	273.41	0	H	PSI	CLOSED	BLA
361	757RW-1	NEX	ND	ND	ND	EXC. PIT	RW-UST	FG	ND	17.02	ND	PVC	6	0' - 17.02'	17.02	ND	ND	0	H	CCI	CLOSED	BLA
362	757RW-2	NEX	ND	ND	ND	EXC. PIT	RW-UST	FG	ND	11.8	ND	PVC	6	0' - 11.80'	11.8	ND	ND	0	H	CCI	CLOSED	BLA
363	757RW-3	NEX	ND	ND	ND	EXC. PIT	RW-UST	FG	ND	15.13	ND	PVC	6	0' - 15.13'	15.13	ND	ND	0	H	CCI	CLOSED	BLA
364	FCMW01LS	374	815545.0	391289.3	300.27	LOESS	MW-UST	AG	051193	17.57	2.08	PVC	2	7' - 17'	10	0.01	298.19	0	N	E/A&H	CLOSED	BLA
365	FCMW02LS	374	815594.0	391129.0	297.63	LOESS	MW-UST	AG	051293	22.6	2.22	PVC	2	7' - 22'	15	0.01	295.41	0	N	E/A&H	CLOSED	BLA
366	FCMW03LS	374	815539.0	391137.0	297.65	LOESS	MW-UST	AG	051293	22.6	2.21	PVC	2	7' - 22'	15	0.01	295.44	0	N	E/A&H	CLOSED	BLA
367	FCMW04LS	374	815501.0	391181.0	297.98	LOESS	MW-UST	AG	051293	22.95	2.24	PVC	2	7' - 22'	15	0.01	295.74	0	N	E/A&H	CLOSED	BLA
368	FCMW05LS	374	815567.0	391190.0	298.29	LOESS	MW-UST	AG	051193	22.55	2.29	PVC	2	7' - 22'	15	0.01	296	0	N	E/A&H	CLOSED	BLA
369	FCMW06LS	1364	815513.0	391066.0	295.72	LOESS	MW-UST	AG	071593	23.1	2.16	PVC	2	8' - 23'	15	0.01	293.56	0	N	E/A&H	CLOSED	BLA
370	GC01 (old)	GOLF	818373.0	389371.8	300.93	MPH SAND	NON-POT	AG	061787	480	4.93	Steel	12.0x10.0	440' - 480'	40	0.03	296	0	P	PWORKS	CLOSED	INACTIVE
371	GC02 (new)	GOLF	818609.7	389487.9	ND	MPH SAND	NON-POT	AG	072499	540	-2.00	Steel	8	500' - 540'	40	ND	-290(T)	0	P	G. HOUSTON	OPEN	ACTIVE
372	Jones Well	Offsite	813701.4	377118.7	315.14	FLUVIAL	PRIVATE	AG	ND	70	ND	Steel	2	ND	ND	ND	ND	0	P	ND	OPEN	Private well
373	N001LS	N-126	813592.0	391722.0	274.90	LOESS	MW-UST	AG	071194	20	2.8	PVC	2	5' - 20'	15	0.01	272.1	0	N	ENSAFE	CLOSED	BLA
374	N002LS	N-126	813636.0	391722.0	272.19	LOESS	MW-UST	AG	071194	20	2.45	PVC	2	5' - 20'	15	0.01	269.74	0	N	ENSAFE	CLOSED	BLA
375	N003LS	N-126	813588.0	391697.0	274.34	LOESS	MW-UST	AG	071294	20	2.6	PVC	2	5' - 20'	15	0.01	271.74	0	N	ENSAFE	CLOSED	BLA
376	N12G01LF	N-126	813738.4	391626.6	285.30	FLUVIAL	MW-RFI-A	AG	072198	87	2.02	PVC	2	71.5' - 81.5'	10	0.01	283.28	4	H	ENSAFE	OPEN	BLA
377	N12G01LS	N-126	813878.6	391643.7	284.90	LOESS	MW-UST	FG	010698	18	-0.28	PVC	2	3' - 18'	15	0.01	285.18	4	H	ENSAFE	CLOSED	BLA
378	N12G02LF	N-126	813376.4	391678.3	285.84	FLUVIAL	MW-RFI-A	AG	080498	85	2.36	PVC	2	67' - 77'	10	0.01	283.48	4	H	ENSAFE	OPEN	BLA
379	N12G02LS	N-126	813892.2	391676.8	287.06	LOESS	MW-UST	AG	010698	19	2.23	PVC	2	4' - 19'	15	0.01	284.83	4	H	ENSAFE	CLOSED	BLA
380	N12G03LS	N-126	813786.4	391672.9	286.69	LOESS	MW-UST	AG	010798	19	2.1	PVC	2	3' - 18'	15	0.01	284.59	4	H	ENSAFE	CLOSED	BLA
381	N12G04LS	N-126	813887.7	391660.4	287.41	LOESS	MW-UST	AG	010898	18	2.01	PVC	2	3' - 18'	15	0.01	285.4	4	H	ENSAFE	CLOSED	BLA
382	N76101	NLAKE	819379.6	398870.8	323.57	COCKFIELD	NON-POT	FG	072167	215	0.01	PVC	4	200' - 215'	15	ND	323.56	0	H	UNKNOWN	CLOSED	aka V-77 (Lake)
383	N9405LS	AOC A	813197.0	391720.0	285.99	LOESS	MW-UST	AG	010892	20	3.32	PVC	4	5' - 15'	10	0.01	282.67	3	H	ENSAFE	OPEN	BLA; 01LS-04LS were
384	N9406LS	N-94	813176.0	391615.0	286.71	LOESS	MW-UST	AG	010892	17	2.44	PVC	4	7' - 17'	10	0.01	284.27	3	H	ENSAFE	OPEN	BLA
385	NFMW01LS	N-94	813765.0	391726.0	285.98	LOESS	MW-UST	AG	051393	22.51	2.27	PVC	2	7' - 22'	15	0.01	283.71	0	N	E/A&H	CLOSED	BLA

**GROUNDWATER MONITORING WELL MANAGEMENT PLAN  
NSA MID-SOUTH DATABASE**

CNT	ID	SITE	EASTING	NORTHING	TOC	FORM	TYPE	MOUNT	INSTALLED	TD	STKUP	MAT	DIA	SCRINVL	SCRNL	SCRNS	GND_MSL	POST	CAP	CONTRACTOR	STATUS	NOTES
386	NFMW02LS	N-94	813421.0	391747.0	284.80	LOESS	MW-UST	AG	051493	22.55	2.28	PVC	2	7' - 22'	15	0.01	282.52	0	N	E/A&H	CLOSED	BLA
387	NFMW03LS	N-94	813446.0	391677.0	285.99	LOESS	MW-UST	AG	051793	22.57	2.13	PVC	2	7' - 22'	15	0.01	283.86	0	N	E/A&H	CLOSED	BLA
388	NFMW04LS	N-94	813498.0	391629.0	286.61	LOESS	MW-UST	AG	051493	27.3	2.39	PVC	2	7' - 27'	20	0.01	284.22	0	N	E/A&H	CLOSED	BLA
389	NFMW05LS	N-94	813479.0	391696.0	285.25	LOESS	MW-UST	AG	051393	27.55	2.08	PVC	2	7' - 27'	20	0.01	283.17	0	N	E/A&H	CLOSED	BLA
390	NFMW06LS	N-94	813490.0	391792.0	282.03	LOESS	MW-UST	FG	071593	20.15	-0.26	PVC	2	5' - 20'	15	0.01	282.29	0	N	E/A&H	CLOSED	BLA
391	NH01LS	HOSP	821761.0	388800.0	288.01	LOESS	MW-UST	FG	051892	27.4	-0.22	PVC	2	17' - 27'	10	0.01	288.23	0	N	E/A&H	CLOSED	BLA
392	NH02LS	HOSP	821772.0	388714.0	286.30	LOESS	MW-UST	FG	051992	22	-0.45	PVC	2	12' - 22'	10	0.01	286.75	0	N	E/A&H	CLOSED	BLA
393	NH03LS	HOSP	821704.0	388677.0	279.48	LOESS	MW-UST	FG	052092	22.8	-0.47	PVC	2	12' - 22'	10	0.01	279.95	0	N	E/A&H	CLOSED	BLA
394	NH04LS	HOSP	821715.0	388740.0	271.16	LOESS	MW-UST	FG	060292	15.6	-0.23	PVC	2	5' - 15'	10	0.01	271.39	0	N	E/A&H	CLOSED	BLA
395	N-MW-05	N-126	813499.0	391723.0	282.00	LOESS	MW-UST	FG	10_98	25.00	1.00	PVC	4	10' - 25'	15	0.01	283	0	N	ENSAFE	CLOSED	BLA
396	OCPO1	S-198	817373.1	387768.0	*295.40*	FLUVIAL	NON-POT	AG	No data	70	-0.6	Steel	4	ND	ND	ND	296.00*	0	H	PWORKS	CLOSED	estimated from USGS topo,
397	PW-N1	1658	813354.0	391706.0	284.58	MPH SAND	POTABLE	AG	91483	523	2.58	Steel	12.0x8.0	463' - 518'	55	0.03	282	0	P	PWORKS	OPEN	Off line, aka V-20
398	PW-N2	345	814097.0	391295.0	287.23	MPH SAND	POTABLE	AG	102460	471	2.23	Steel	12.0x8.0	415' - 465'	50	0.008	285	0	P	PWORKS	OPEN	aka V-4
399	PW-N3	778	812921.0	389653.0	294.77	FT PILLOW	POTABLE	AG	71985	1455	1.77	Steel	18.0x12.0	1335' - 1450'	105.00*	0.03	293	0	P	PWORKS	OPEN	BLA, aka U-60
400	PW-S4	1681	810942.0	389390.0	269.71	FT PILLOW	POTABLE	AG	101885	1454	3.71	Steel	18.0x12.0	1346' - 1449'	90.00*	0.03	266	0	P	PWORKS	OPEN	Unused, BLA, aka U-58
401	PW-S5	S-6	811162.0	387936.0	267.00	FT PILLOW	POTABLE	AG	90685	1439	3	Steel	18.0x12.0	1272' - 1434'	137.00*	0.03	264	0	P	PWORKS	OPEN	BLA, aka U-59
402	RW-1	N-126		ND	LOESS	MW-UST	FG	071097	25	ND	PVC	6	2' - 21.66'	19.66	0.01	ND	0	N	ENSAFE	CLOSED	Tanks T304 and T1239	
403	RWY09	1695	814118.8	395587.3	294.11	FLUVIAL	NON-POT	AG	No data	79	0.5	PVC	4	69' - 79'	10	ND	293.5	0	H	UNKNOWN	OPEN	aka V-81 (Rwy) F
404	S23701LS	S-237	814663.0	388561.0	269.73	LOESS	MW-UST	AG	092392	16	2.41	PVC	2	6' - 16'	10	0.01	267.32	0	N	MEC	CLOSED	BLA
405	S23702LS	S-237	814595.0	388415.0	272.13	LOESS	MW-UST	FG	092292	15	-0.33	PVC	2	5' - 15'	10	0.01	272.46	0	N	MEC	CLOSED	BLA
406	S23703LS	S-237	814532.0	388433.0	267.56	LOESS	MW-UST	FG	092292	15	-0.29	PVC	2	5' - 15'	10	0.01	267.85	0	N	MEC	CLOSED	BLA
407	S23704LS	S-237	814618.0	388497.0	269.69	LOESS	MW-UST	FG	92392	10	-0.21	PVC	2	5' - 10'	5	0.01	269.9	0	N	MEC	CLOSED	BLA
408	S23705LS	S-237	814649.0	388477.0	273.31	LOESS	MW-UST	AG	101392	15	2.38	PVC	2	5' - 15'	10	0.01	270.93	0	N	MEC	CLOSED	BLA
409	S23706LS	S-237	814529.0	388485.0	272.37	LOESS	MW-UST	AG	101392	15	2.47	PVC	2	5' - 15'	10	0.01	269.9	0	N	MEC	CLOSED	BLA
410	S37601LS	S-376	811222.0	386420.0	264.93	LOESS	MW-UST	FG	072992	15	-0.16	PVC	2	5' - 15'	10	0.01	265.09	0	N	E/A&H	CLOSED	BLA
411	S37602LS	S-376	811167.0	386459.0	265.02	LOESS	MW-UST	FG	072992	15	-0.07	PVC	2	5' - 15'	10	0.01	265.09	0	N	E/A&H	CLOSED	BLA
412	S37603LS	S-376	811127.0	386434.0	264.79	LOESS	MW-UST	FG	073092	15	-0.3	PVC	2	5' - 15'	10	0.01	265.09	0	N	E/A&H	CLOSED	BLA
413	S37604LS	S-376	811121.0	386403.0	264.48	LOESS	MW-UST	FG	073092	15	-0.28	PVC	2	5' - 15'	10	0.01	264.76	0	N	E/A&H	CLOSED	BLA
414	S50G01LS	S-50	814581.0	387301.0	267.14	LOESS	MW-UST	FG	061593	21.8	-0.25	PVC	2	6.8'-21.8'	15	0.01	267.39	0	N	E/A&H	CLOSED	BLA
415	S50G02LS	S-50	814514.0	387260.0	266.96	LOESS	MW-UST	FG	061593	21.3	-0.43	PVC	2	6.3'-21.3'	15	0.01	267.39	0	N	E/A&H	CLOSED	BLA
416	S50G03LS	S-50	814524.0	387367.0	267.25	LOESS	MW-UST	FG	061693	21.4	-0.47	PVC	2	6.4'-21.4'	15	0.01	267.72	0	N	E/A&H	CLOSED	BLA
417	S50G04LS	S-50	814429.0	387308.0	266.58	LOESS	MW-UST	FG	061793	21.1	-0.15	PVC	2	6.1'-21.1'	15	0.01	266.73	0	N	E/A&H	CLOSED	BLA
418	S50G05LS	S-50	814533.0	387307.0	271.08	LOESS	MW-UST	FG	061893	21.1	-0.25	PVC	2	6.1'-21.1'	15	0.01	271.33	0	N	E/A&H	CLOSED	BLA
419	T1205N01	NFC	815570.0	391195.0	296.00	TANK PIT	LD-UST	FG	010490	15	ND	PVC	2	2.5' - 15'	12.5	0.01	296.00	0	N	UNKNOWN	CLOSED	BLA
420	T1205N02	NFC	815580.0	391201.0	296.00	TANK PIT	LD-UST	FG	010490	15	ND	PVC	2	2.5' - 15'	12.5	0.01	296.00	0	N	UNKNOWN	CLOSED	BLA
421	T1205S01	NFC	815575.0	391185.0	295.77	TANK PIT	LD-UST	FG	010490	15	-0.16	PVC	2	2.5' - 15'	12.5	0.01	295.93	0	N	UNKNOWN	CLOSED	BLA
422	T1205S02	NFC	815587.0	391193.0	296.09	TANK PIT	LD-UST	FG	010490	15	0.16	PVC	2	2.5' - 15'	12.5	0.01	295.93	0	N	UNKNOWN	CLOSED	BLA
423	T123901	N-126	813577.0	391683.0	283.92	TANK PIT	LD-UST	FG	010990	15	-0.2	PVC	2	2.5' - 15'	12.5	0.01	284.12	0	N	UNKNOWN	CLOSED	BLA
424	T123902	N-126	813569.0	391715.0	282.95	TANK PIT	LD-UST	FG	010990	15	-0.54	PVC	2	2.5' - 15'	12.5	0.01	283.46	0	N	UNKNOWN	CLOSED	BLA
425	T123903	N-126	813635.0	391704.0	283.35	TANK PIT	LD-UST	FG	010990	15	-0.77	PVC	2	2.5' - 15'	12.5	0.01	284.12	0	N	UNKNOWN	CLOSED	BLA
426	T124201	N-94	813116.0	391721.0	283.58	TANK PIT	LD-UST	FG	010490	15	-0.51	PVC	2	2.5' - 15'	12.5	0.01	284.12	0	N	UNKNOWN	CLOSED	BLA; aka N9401LS
427	T124202	N-94	813131.0	391731.0	283.72	TANK PIT	LD-UST	FG	010490	15	-0.4	PVC	2	2.5' - 15'	12.5	0.01	284.12	0	N	UNKNOWN	CLOSED	BLA; aka N9402LS
428	T124301	N-94	813131.0	391692.0	284.09	TANK PIT	LD-UST	FG	010590	15	-0.36	PVC	2	2.5' - 15'	12.5	0.01	284.45	0	N	UNKNOWN	CLOSED	BLA; aka N9403LS
429	T124302	N-94	813147.0	391700.0	283.82	TANK PIT	LD-UST	FG	010990	15	-0.3	PVC	2	2.5' - 15'	12.5	0.01	284.12	0	N	UNKNOWN	CLOSED	BLA; aka N9404LS
430	T124901	S376	811190.0	386412.0	264.83	TANK PIT	LD-UST	FG	010690	15	-0.26	PVC	2	2.5' - 15'	12.5	0.01	265.09	0	N	UNKNOWN	CLOSED	BLA
431	T124902	S376	811198.0	386424.0	265.02	TANK PIT	LD-UST	FG	010690	15	-0.07	PVC	2	2.5' - 15'	12.5	0.01	265.09	0	N	UNKNOWN	CLOSED	BLA
432	T148201	S376	811186.0	386471.0	265.46	TANK PIT	LD-UST	FG	010690	15	-0.29	PVC	2	2.5' - 15'	12.5	0.01	265.75	0	N	UNKNOWN	CLOSED	BLA
433	T148202	S376	No Data	No Data	No Data	TANK PIT	LD-UST	FG	010690	15	No Data	PVC	2	2.5' - 15'	12.5	0.01	No Data	0	N	UNKNOWN	CLOSED	BLA
434	T148203	S376	811158.0	386412.0	264.55	TANK PIT	LD-UST	FG	010690	15	-0.21	PVC	2	2.5' - 15'	12.5	0.01	264.76	0	N	UNKNOWN	CLOSED	BLA
435	T148901	AFFTF	811557.8	390127.2	267.42	TANK PIT	LD-UST	FG	122889	15	0.27	PVC	2	2.5' - 15'	12.5	0.01	267.15	0	N	UNKNOWN	CLOSED	BLA
436	T148902	AFFTF	No Data	No Data	No Data	TANK PIT	LD-UST	FG	122889	15	No Data	PVC	2	2.5' - 15'	12.5	0.01	No Data	0	N	UNKNOWN	CLOSED	BLA
437	T148903	AFFTF	811530.0	390090.0	267.84	TANK PIT	LD-UST	FG	122889	15	-0.53	PVC	2	2.5' - 15'	12.5	0.01	268.37	0	N	UNKNOWN	CLOSED	BLA
438	T148904	AFFTF	811559.0	390096.0	267.29	TANK PIT	LD-UST	FG	122889	15	-0.75	PVC	2	2.5' - 15'	12.5	0.01	268.04	0	N	UNKNOWN	CLOSED	BLA
439	T150801	AFFTF	810989.0	390137.0	268.00	TANK PIT	LD-UST	FG	122989	15	-0.37	PVC	2	2.5' - 15'	12.5	0.01	268.37	0	N	UNKNOWN	CLOSED	BLA
440	T150802	AFFTF	No Data	No Data	267.74	TANK PIT	LD-UST	FG	122989	15	No Data	PVC	2	2.5' - 15'	12.5	0.01	No Data	0	N	UNKNOWN	CLOSED	BLA

**GROUNDWATER MONITORING WELL MANAGEMENT PLAN  
NSA MID-SOUTH DATABASE**

CNT	ID	SITE	EASTING	NORTHING	TOC	FORM	TYPE	MOUNT	INSTALLED	TD	STKUP	MAT	DIA	SCRNINVL	SCRNL	SCRNS	GND_MSL	POST	CAP	CONTRACTOR	STATUS	NOTES
441	T150803	AFFTF	No Data	No Data	266.67	TANK PIT	LD-UST	FG	122989	15	No Data	PVC	2	2.5' - 15'	12.5	0.01	No Data	0	N	UNKNOWN	CLOSED	BLA
442	T163701	163	814420.0	392044.0	288.47	TANK PIT	LD-UST	FG	010590	15	-0.37	PVC	2	2.5' - 15'	12.5	0.01	288.84	0	N	ERCR	CLOSED	BLA
443	T163702	163	814407.0	392039.0	288.13	TANK PIT	LD-UST	FG	010590	15	-0.26	PVC	2	2.5'-15'	12.5	0.01	288.39	0	N	ERCR	CLOSED	BLA
444	T163703	163	814394.0	392050.0	288.45	TANK PIT	LD-UST	FG	010590	15	-0.26	PVC	2	2.5' - 15'	12.5	0.01	288.71	0	N	ERCR	CLOSED	BLA
445	T30101	N-94	813201.0	391660.0	283.59	TANK PIT	LD-UST	FG	010590	15	-0.2	PVC	2	2.5' - 15'	12.5	0.01	283.79	0	N	ERCR	CLOSED	BLA
446	T30102	N-94	813212.0	391652.0	283.28	TANK PIT	LD-UST	FG	010990	15	-0.18	PVC	2	2.5' - 15'	12.5	0.01	283.46	0	N	ERCR	CLOSED	BLA
447	T30103	N-94	813224.0	391660.0	283.20	TANK PIT	LD-UST	FG	010990	15	-0.26	PVC	2	2.5' - 15'	12.5	0.01	283.46	0	N	ERCR	CLOSED	BLA
448	T30401	N-126	813665.0	391669.0	284.13	TANK PIT	LD-UST	FG	010990	15	-0.32	PVC	2	2.5' - 15'	12.5	0.01	284.45	0	N	ERCR	CLOSED	BLA
449	T30402	N-126	813684.0	391709.0	283.43	TANK PIT	LD-UST	FG	010990	15	-0.36	PVC	2	2.5'-15'	12.5	0.01	283.79	0	N	ERCR	CLOSED	BLA
450	T33601	336	810272.0	392564.0	271.00	TANK PIT	LD-UST	FG	010390	15	-0.15	PVC	2	2.5' - 15'	12.5	0.01	271.15	0	N	ERCR	CLOSED	BLA
451	T33602	336	810229.0	392622.0	270.64	TANK PIT	LD-UST	FG	010390	15	-0.39	PVC	2	2.5' - 15'	12.5	0.01	271.03	0	N	ERCR	CLOSED	BLA
452	T33603	336	810314.0	392621.0	270.73	TANK PIT	LD-UST	FG	010390	15	-0.24	PVC	2	2.5' - 15'	12.5	0.01	270.97	0	N	ERCR	CLOSED	BLA
453	T33701	337	810510.0	392387.0	270.60	TANK PIT	LD-UST	FG	010390	15	-0.31	PVC	2	2.5' - 15'	12.5	0.01	270.91	0	N	ERCR	CLOSED	BLA
454	T33702	337	810433.0	392432.0	271.26	TANK PIT	LD-UST	FG	010390	15	-0.31	PVC	2	2.5' - 15'	12.5	0.01	271.57	0	N	ERCR	CLOSED	BLA
455	T33703	337	810516.0	392463.0	270.96	TANK PIT	LD-UST	FG	010390	15	-0.36	PVC	2	2.5' - 15'	12.5	0.01	271.32	0	N	ERCR	CLOSED	BLA
456	TW01	211	810714.0	389458.3	271.02	WILCOX	MW-MISC	AG	10_85	ND	ND	Steel	8	ND	ND	ND	ND	0	N	PWORKS	CLOSED	
457	USGS01LS	1694	812814.1	391167.4	277.52	LOESS	MW-USGS	AG	041295	19.8	4.52	PVC	4	8' - 18'	10	0.01	273	4	BOX	USGS	CLOSED	BLA, aka U-102LS
458	USGS02FL	1694	812798.9	391179.6	277.74	FLUVIAL	MW-USGS	AG	041595	70.5	4.77	PVC	4	59' - 69'	10	0.01	273	4	BOX	USGS	CLOSED	BLA, aka U-102LF
459	USGS03UC	1694	812784.0	391192.4	277.73	COCKFIELD	MW-USGS	AG	041495	120	4.73	PVC	4	105' - 115'	10	0.01	273	4	BOX	USGS	CLOSED	BLA, aka U-102C
460	USGS04FL	1694	812834.3	391198.4	ND	FLUVIAL	MW-USGS	AG	081595	70.5	ND	PVC	4	40' - 70'	30	0.01	273	4	BOX	USGS	CLOSED	BLA, aka U-103
461	S172-1		819529.6	398783.0	332.87	COCKFIELD	NON-POT	ND	ND	189	ND	ND	ND	ND	ND	ND	331.8	0	N	ND	CLOSED	Lakehouse storage
462	PES-INJ-1S	N-6	815028.5	392214.5	293.44	FLUVIAL	MW-PES	FG	071900	65	ND	PVC	2	55.0 - 65.0	10	ND	ND	0	H	PARSONS	OPEN	
463	PES-INJ-1D	N-6	815028.5	392214.5	293.44	FLUVIAL	MW-PES	FG	071901	85	ND	PVC	2	75.0 - 85.0	10	ND	ND	0	H	PARSONS	OPEN	
464	PES-INJ-2S	N-6	815042.5	392219.9	293.20	FLUVIAL	MW-PES	FG	072000	54.8	ND	PVC	2	44.8 - 54.8	10	ND	ND	0	H	PARSONS	OPEN	
465	PES-INJ-2D	N-6	815042.5	392219.9	293.21	FLUVIAL	MW-PES	FG	072001	75	ND	PVC	2	65.0 - 75.0	10	ND	ND	0	H	PARSONS	OPEN	
466	PES-INJ-3S	N-6	815056.3	392224.7	293.09	FLUVIAL	MW-PES	FG	072300	65	ND	PVC	2	55.0 - 65.0	10	ND	ND	0	H	PARSONS	OPEN	
467	PES-INJ-3D	N-6	815056.3	392224.7	293.12	FLUVIAL	MW-PES	FG	072300	85	ND	PVC	2	75.0 - 85.0	10	ND	ND	0	H	PARSONS	OPEN	
468	PES-INJ-4S	N-6	815070.4	392230.1	293.44	FLUVIAL	MW-PES	FG	072300	55.4	ND	PVC	2	45.4 - 55.4	10	ND	ND	0	H	PARSONS	OPEN	
469	PES-INJ-4D	N-6	815070.4	392230.1	293.40	FLUVIAL	MW-PES	FG	072300	75	ND	PVC	2	65.0 - 75.0	10	ND	ND	0	H	PARSONS	OPEN	
470	PES-MW-1S	N-6	815062.2	392115.6	293.37	FLUVIAL	MW-PES	FG	071800	55.3	ND	PVC	2	45.3 - 55.3	10	ND	ND	0	H	PARSONS	OPEN	
471	PES-MW-1D	N-6	815062.2	392115.6	293.33	FLUVIAL	MW-PES	FG	071800	80	ND	PVC	2	70.0 - 80.0	10	ND	ND	0	H	PARSONS	OPEN	
472	PES-MW-2S	N-6	815038.3	392229.4	293.38	FLUVIAL	MW-PES	FG	080100	65	ND	PVC	2	55.0 - 65.0	10	ND	ND	0	H	PARSONS	OPEN	
473	PES-MW-2D	N-6	815038.3	392229.4	293.32	FLUVIAL	MW-PES	FG	080100	85	ND	PVC	2	75.0 - 85.0	10	ND	ND	0	H	PARSONS	OPEN	
474	PES-MW-3S	N-6	815052.4	392235.2	293.39	FLUVIAL	MW-PES	FG	072400	55	ND	PVC	2	45.0 - 55.0	10	ND	ND	0	H	PARSONS	OPEN	
475	PES-MW-3D	N-6	815052.4	392235.2	293.40	FLUVIAL	MW-PES	FG	072400	75	ND	PVC	2	65.0 - 75.0	10	ND	ND	0	H	PARSONS	OPEN	
476	PES-MW-4S	N-6	815036.0	392241.3	293.34	FLUVIAL	MW-PES	FG	072100	65	ND	PVC	2	55.0 - 65.0	10	ND	ND	0	H	PARSONS	OPEN	
477	PES-MW-4D	N-6	815036.0	392241.3	293.34	FLUVIAL	MW-PES	FG	072100	85	ND	PVC	2	75.0 - 85.0	10	ND	ND	0	H	PARSONS	OPEN	
478	PES-MW-5S	N-6	815029.1	392250.1	293.27	FLUVIAL	MW-PES	FG	072000	55.4	ND	PVC	2	45.4 - 55.4	10	ND	ND	0	H	PARSONS	OPEN	
479	PES-MW-5D	N-6	815029.1	392250.1	293.27	FLUVIAL	MW-PES	FG	072001	75	ND	PVC	2	65.0 - 75.0	10	ND	ND	0	H	PARSONS	OPEN	
480	PES-MW-6S	N-6	815046.0	392251.7	293.28	FLUVIAL	MW-PES	FG	072200	65	ND	PVC	2	55.0 - 65.0	10	ND	ND	0	H	PARSONS	OPEN	
481	PES-MW-6D	N-6	815046.0	392251.7	293.31	FLUVIAL	MW-PES	FG	072200	85	ND	PVC	2	75.0 - 85.0	10	ND	ND	0	H	PARSONS	OPEN	
482	PES-MW-7S	N-6	815033.1	392273.1	293.10	FLUVIAL	MW-PES	FG	072100	55	ND	PVC	2	45.0 - 55.0	10	ND	ND	0	H	PARSONS	OPEN	
483	PES-MW-7D	N-6	815033.1	392273.1	293.08	FLUVIAL	MW-PES	FG	072100	75	ND	PVC	2	65.0 - 75.0	10	ND	ND	0	H	PARSONS	OPEN	
484	PES-MW-8S	N-6	815011.2	392321.5	292.94	FLUVIAL	MW-PES	FG	072200	65	ND	PVC	2	55.0 - 65.0	10	ND	ND	0	H	PARSONS	OPEN	
485	PES-MW-8D	N-6	815011.2	392321.5	292.94	FLUVIAL	MW-PES	FG	072200	85.3	ND	PVC	2	75.3 - 85.3	10	ND	ND	0	H	PARSONS	OPEN	
TOTAL OPEN:																					214	

**LEGEND:**  
H = Hex lock cap  
N = None  
P = Pump  
ND = No Data  
AG = Above Grade  
FG = Flush Grade  
BLA = Boring Log Available  
BOX = USGS Gage Box  
\* Coordinates were collected using a GPS unit with differential correction that was not survey grade.

**Appendix B**  
**Applicable or Relevant**  
**and**  
**Appropriate Requirements**

































































































































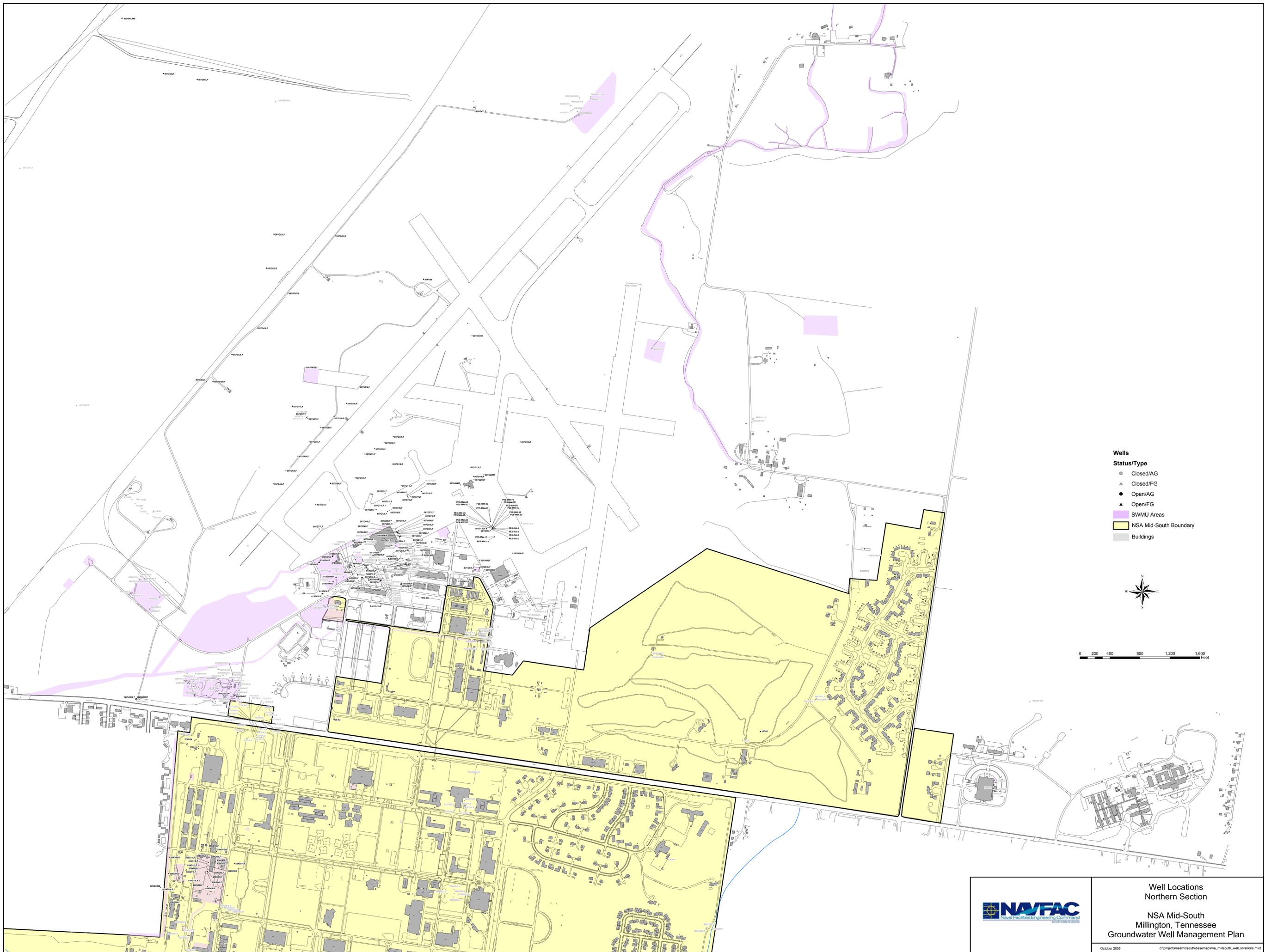








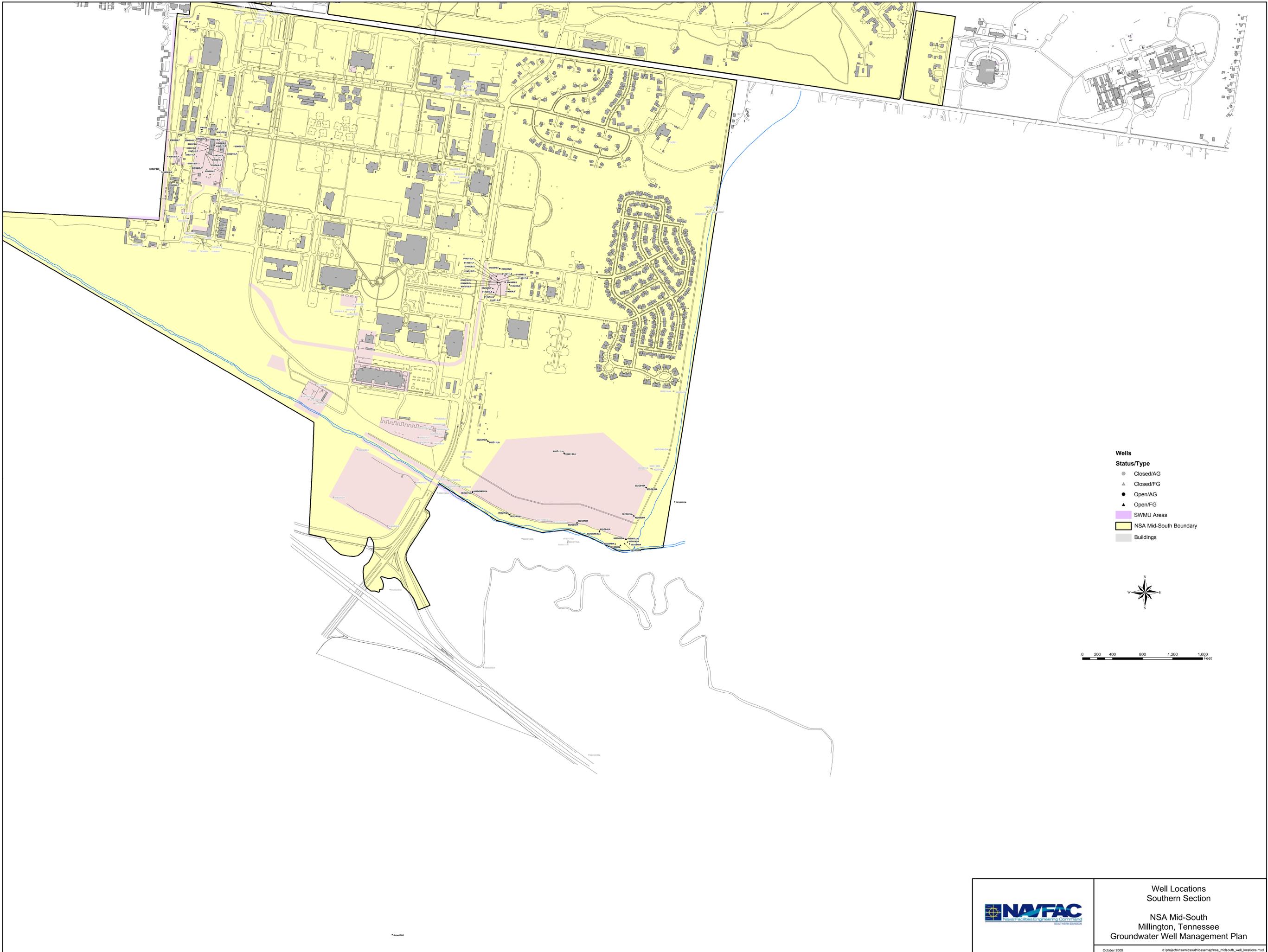
**Appendix C**  
**NSA Mid-South Well Location**  
**Overview Maps (Northern and Southern Sections)**



Well Locations  
Northern Section

NSA Mid-South  
Millington, Tennessee  
Groundwater Well Management Plan

October 2005 d:\projects\midsouth\basemap\midsouth\_well\_locations.mxd



	Well Locations Southern Section
	NSA Mid-South Millington, Tennessee Groundwater Well Management Plan
October 2005	d:\projects\midsouth\basemapna_midsouth_well_locations.mxd

**Appendix D  
Well Construction Logs**

**NOTE: The following well logs are not available:**

GC01	007G08LS
N76101	OCP01
PW-N1	007GMCNA
PW-N2	020GPZ01
RWY09	020GPZ02
RW-01	020GPZ03
S17201	039GPZ04
TW01	039GPZ05
005G04LS	005G05LS
757B2LD	005G08LS
757B3LD	757B4LD
005G09LS	0BGG03UC
015GRW01	015GRW02
Williams	Harris
Jones	GC02

















































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































