U.S. Army

Final
Monitoring Only Report
AAFES Furniture Store, Heating Oil UST, Building 419, Steele Avenue, Liberty County, Fort Stewart, Georgia

IMA

July 2018

Submitted to:

Directorate of Public Works
Environmental Division
Fort Stewart, Georgia

Submitted by:

U.S. Army Corps of Engineers
Savannah District
100 West Oglethorpe Avenue
Savannah, Georgia 31401-3604

Prepared by:

SpecPro Environmental Services LLC
1006 Floyd Culler Court
Oak Ridge, Tennessee 37830-3604
under
Contract No. W912HN-10-D-0001
Delivery Order No. 0029

Final
Monitoring Only Report
AAFES Furniture Store, Heating Oil UST, Building 419, Steele Avenue, Liberty County, Fort Stewart, Georgia

July 2018

Submitted to:
Directorate of Public Works
Environmental Division
Fort Stewart, Georgia

Submitted by:
U. S. Army Corps of Engineers
Savannah District
100 West Oglethorpe Avenue
Savannah, Georgia 31401

Prepared by:
SpecPro Environmental Services LLC
1006 Floyd Culler Court
Oak Ridge, Tennessee 37830
under
Contract No. W912HN-10-D-0001
Delivery Order No. 0029

Table of Contents

List of Figures

List of Tables

List of Appendices

List of Abbreviations and Acronyms

µg/L	micrograms per liter
AAFES	Army and Air Force Exchange Service
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and total xylenes
CAP	Corrective Action Plan
DRO	diesel range organics
EFR	enhanced fluid recovery
EPA	U.S. Environmental Protection Agency
EPD	Environmental Protection Division
ft.	foot/ feet
GUST	Georgia Underground Storage Tank
IWQS	In-Stream Water Quality Standards
J	laboratory estimated value
MCL	maximum contaminant level
mg/kg	milligrams per kilogram
MPE	multiphase extraction
MTBE	methyl tertbutyl ether
MW	monitor well
N/A	not applicable
NC	not collected
ND	not detected
NRC	no regulatory criteria
PAH	polynuclear aromatic hydrocarbons
PG	Professional Geologist
RW	recovery well
SB	soil boring
SES	SpecPro Environmental Services LLC
TOC	top of casing
TPH	total petroleum hydrocarbons
U	not detected at the detection limit shown
USACE	U.S. Army Corps of Engineers
UST	underground storage tank

GEORGIA USTMP MONITORING ONLY REPORT

Facility ID:	N/A	Submittal Date:	July 16, 2018
Monitoring Report Number:	002	Report Date Range:	February 5, 2018, through May 8, 2018
Facility Name:	AAFES Furniture Store, Heating Oil UST, Building 419	Street Address:	Building 419, Steele Avenue
City:	Fort Stewart	County:	Liberty
Zip Code:	31314		
Latitude	31° 52'13.80"N	Longitude	81° 36'25.70"W

Submitted by UST Owner/ Operator:		Prepared by Consultant/ Contractor	
Name:	Thomas C. Fry Environmental Division	Name:	Christopher R. Napoleon, PG
Company:	U.S. Army HQ, 3rd, Inf. Div (Mech)	Company	SpecPro Environmental Services LLC
Address:	Directorate of Public Works Building 1137 1550 Veterans Parkway	Address:	1006 Floyd Culler Court
City: Fort Stewart	State: Georgia	City: Oak Ridge	State: Tennessee
Zip Code:	31314-4927	Zip Code	37830
Telephone:	(912) 767-2010	Telephone:	(865) 481-7837

I. REGISTERED PROFESSIONAL ENGINEER OR PROFESSIONAL GEOLOGIST CERTIFICATION

I hereby certify that I have directed and supervised the field work and preparation of this plan, in accordance with State Rules and Regulations. As a registered Professional Geologist and/or Professional Engineer, I certify that I am a qualified groundwater professional, as defined by the Georgia State Board of Professional Geologists. All of the information and laboratory data in this plan and in all of the attachments are true, accurate, complete and in accordance with applicable State Rules and Regulations.

Name: Christopher R. Napoleon, PG

Signature: _____

Date: 7/16/2018

Georgia Stamp or Seal

II. PROJECT SUMMARY

Army and Air Force Exchange Service (AAFES) Furniture Store, Heating Oil Underground Storage Tank (UST), Building 419 (hereinafter referred to as Building 419) serves Fort Stewart Army Post, and its location is shown on Figure 1 (Appendix I). The site plan is shown on Figure 1A (Appendix I). A January 4, 2008, inquiry to an inventory discrepancy indicated that approximately 4,500 gallons of No. 2 heating fuel oil were missing. A piping leak was found behind Building 419 near Steele Avenue on the west side of the loading dock. Mr. Scott Coburn of the Georgia Environmental Protection Division (EPD) Spill Response Center was notified the day the leak was discovered. Fort Stewart personnel determined that the release came from the water heating boiler fuel oil return line connected to a 4,000-gallon UST. Fort Stewart initiated an emergency spill response in close coordination with Georgia EPD. SWS First Response was contracted to determine the extent of contamination, to remove contaminated soil to prevent groundwater infiltration, and to remove the UST. SWS First Response completed the UST and soil removal on February 7, 2008 (SpecPro Environmental Services [SES], July 2013).

Free product removal activities began during the initial UST spill release response in 2008. A site investigation was conducted in Fiscal Year 2011, a Corrective Action Plan (CAP) Part A (SES, November 2013) was conducted in 2013, and a CAP-Part B (SES, August 2014) was conducted in 2014 using three enhanced fluid recovery (EFR) pilot studies. James Guentert of the Georgia EPD Solid Waste Management Program approved the CAP-Part B on August 20, 2014. SES and its subcontractor, EcoVac Services, conducted 31 SURFAC® events with EFR to remove free product through December 17, 2014. The United States Army Corps of Engineers (USACE) installed five recovery wells (RW-07, RW-08, RW-09, RW-10, and RW-11) between September 14 and September 15, 2016. After the installation of the five recovery wells, SES was contracted to conduct 15 SURFAC® events (Events 32 through 46), which were conducted between June 19, 2017, and January 11, 2018. Sufficient soil borings, monitor wells, and recovery wells have been installed, and the soil and groundwater have been sampled and analyzed. The area of impact has been identified and delineated through groundwater and soil testing during site investigations.

The CAP-Part A determined the nearest public water supply withdrawal point is Fort Stewart Water Well #2, approximately 1,800 feet southwest (upgradient) of the site. This well serves as one of the drinking water sources for Fort Stewart. It is 808 feet deep and is cased from ground surface to 470 feet below ground surface (bgs). The surface casing is designed and constructed to prevent groundwater from being used from the surficial aquifer. Therefore, Fort Stewart Water Well #2 would not use the surficial aquifer.

The nearest surface water feature is an unnamed tributary approximately 50 feet north of the site that flows north and empties into Taylors Creek. Fort Stewart personnel collected a surface water sample from the box culvert outlet approximately 50 feet north of Building 419 on February 11, 2008, and no volatile organic compounds were detected. Based on this information, the applicable soil standards are in the Average or Higher Groundwater Pollution Susceptibility Area column of Table B Soil Threshold Levels, where public water supplies do not exist within 2.0 miles or nonpublic water supplies exist within 0.5 miles and the site is less than 500 feet to a surface water body (Georgia EPD, January 2011). Also, because no groundwater receptors use the surficial aquifer, the applicable groundwater cleanup standards would be the Georgia In-Stream Water Quality Standards (IWQS) (SES, November 2013).

The following sections contain a chronological history of investigations and free product recovery efforts conducted at Building 419 (2008-2018).

A. Free Product Removal Efforts 2008

On February 12, 2008, Solutions To Environmental Problems (STEP), Inc. installed six recovery wells (RW-01, RW-02, RW-03, RW-04, RW-05, and RW-06) near the location of the former tank. The next day, four wells contained free product. The locations of the recovery wells are shown on Figure 1A (Appendix I). Water level readings and free product thicknesses were obtained on February 13, 2008, and are shown in Table 1 (Appendix II). A vacuum extraction truck from Fort Stewart recovered approximately 1,475 gallons of fuel from the recovery wells between February 2008 and November 2008.

B. Preliminary Site Investigation

When additional funding became available in Fiscal Year 2011, SES was contracted to conduct a preliminary site investigation and recover free product (USACE, February 2012). During this investigation, SES sampled soil and groundwater in an effort to determine the extent of the petroleum contamination. According to the Georgia EPD CAP-Part A guidance, if free phase petroleum product (gasoline, diesel fuel, waste oil, or any other regulated substance that is not dissolved in water) is identified exceeding 1/8 inch (0.01 foot) in thickness, free product removal needs to begin immediately (Georgia EPD, January 2011).

In March 2011, SES installed 21 soil borings to 15 feet bgs to delineate free product at the site and to determine the extent of the soil contamination. Two soil samples were collected from each boring. Soil

boring SB-10 was installed near the suspected release source area, and the other borings were installed outwardly from that point. The loading dock and building prevented installation of borings to the south. Soil sampling was conducted using direct push technology to obtain continuous samples from the ground surface or immediately below the asphalt/ gravel to the bottom of the boring. En Core® samplers and stainless steel spoons were used to collect the sample from the appropriate depth, in accordance with "Soil Sampling Procedure" (Environmental Protection Agency [EPA] Region 4, November 2007). The soil borings were sampled, described, and classified by a geologist and field-screened using a photoionization detector. All samples with elevated benzene concentrations were from the area nearest the wells with free product. Benzene, toluene, ethylbenzene, and total xylenes (BTEX) results in the remaining samples from soil borings to the east, north, and west of the free product wells were less than the Georgia Underground Storage Tank (GUST) detection limit for shallow and deep samples. The soil contamination was delineated in areas to the east, north, and west of the free product wells. All soil borings not used for monitor wells were promptly backfilled with bentonite chips and abandoned. *Final Preliminary Assessment Report for Heating Oil Spill Site Investigation at Building 419, Fort Stewart, Georgia* (SES, August 2012), provides additional information.

Six groundwater monitor wells (MW-01, MW-02, MW-03, MW-04, MW-05, and MW-06) were installed in spring 2011 using hollow stem augers, in accordance with "Design and Installation of Monitoring Wells" (EPA Region 4, February 2008). After development, groundwater samples were obtained in accordance with "Groundwater Sampling" (EPA Region 4, November 2007) using the low-flow technique with a variable speed peristaltic pump with Teflon tubing. Samples for volatile organic analyses were obtained using the peristaltic pump/straw method. Depths to water and free product thickness were measured in all wells at the site to determine the groundwater flow direction and gradient prior to sampling. Table 1 (Appendix II) lists the water level readings. These readings demonstrated a groundwater flow direction to the north with a gradient of 0.019 feet/foot.

On April 11, 2011, free product was measured in wells RW-01, RW-04, RW-05, and RW-06. Groundwater samples were obtained from the six newly installed wells (MW-01, MW-02, MW-03, MW-04, MW-05, and MW-06) on April 12, 2011, and were analyzed for BTEX and polynuclear aromatic hydrocarbons (PAHs). The results of the BTEX and PAH analyses are listed in Table 2 and Table 2A, respectively (Appendix II). BTEX constituents were detected in MW-04 with an ethylbenzene concentration of 19.8 micrograms per liter (µg/L) and xylene concentration of 112 µg/L, both exceeding the GUST detection limit of 5 µg/L. The IWQS for ethylbenzene is 2,100 µg/L, and xylene does not have an IWQS for comparison. PAHs were not detected above the GUST detection limit of 10 µg/L in any

well. Based on the groundwater analytical results, SES determined that the dissolved petroleum contamination was limited to the area containing the free product (SES, August 2012). SES recommended completing a CAP-Part A for the UST release with installation of soil borings and groundwater monitor wells to delineate contamination and free product. To remove the free product, SES also recommended a pilot study consisting of surfactant injection and multiphase extraction (MPE) (SES, August 2012). The Georgia EPD approved both recommendations (Guentert, August 2012).

Three EFR events were performed at the site (June 2011, July 2011, and August 2011). Before and after each event, water level readings were obtained from each recovery well, and this data is reported in Table 1 (Appendix II). SES subcontractor, EcoVac Services, used an MPE system capable of providing up to 20 inches mercury (Hg) vacuum and up to 20 gallons per minute influent flow rate. The EFR system removed 611 pounds of petroleum hydrocarbon vapor during the three events. Total liquid removed was 7,667 gallons with 90 gallons of total product removed during 22 hours of operation. All recovered liquid was transported to the EQ Augusta treatment facility in Augusta, Georgia, for disposal (SES, August 2012).

C. Corrective Action Plan Part A Site Investigation

In July 2013 and August 2013, SES installed four soil borings (SB-22, SB-23, SB-24, and SB-25) to complete the soil delineation at the site. A surface sample (first soil encountered from the 1-foot-to-3-foot interval) was obtained from each boring, and a second sample was obtained from each boring above the water table. The soil samples were analyzed for BTEX, methyl tertbutyl ether, PAHs, and total petroleum hydrocarbons (TPH) diesel range organics (DRO). The analyses did not detect BTEX or PAH concentrations above the GUST detection limit. TPH DRO concentrations ranged from not detected to 46.0 milligrams per kilogram; however, there is no comparison criteria for TPH. The deeper soil samples did not have concentrations of BTEX or PAHs above GUST detection limits, indicating that the soil contamination was limited to the area that contained free product.

To complete the groundwater delineation at the site, SES installed three monitor wells (designated MW-07, MW-08, and MW-09) in July 2013 and August 2013 using hollow stem augers in accordance with “Design and Installation of Monitoring Wells” (EPA Region 4, January 2013). Heaving sand was encountered during development of MW-09, and the well screen was destroyed. As a result, this well was overdrilled, backfilled with grout, and abandoned. MW-09A was installed nearby as a replacement. On August 8, 2013, the three groundwater monitor wells were sampled. Depths to water and free product

thickness were measured in all wells at the site to determine the groundwater flow direction and gradient. Table 1 (Appendix II) lists the water level readings. This data was used to determine that the groundwater flow direction continued to be northward, with a gradient of 0.026 feet/foot. Groundwater samples were obtained from monitor wells MW-07, MW-08, and MW-09A using the low-flow technique with a variable speed peristaltic pump with Teflon tubing. Free product was measured in RW-04, RW-05, RW-06, and MW-04. Free product thicknesses are listed in Table 1 (Appendix II). Laboratory analytical results are listed in Table 2 and Table 2A (Appendix II). No BTEX or PAH analytes were detected above the GUST detection limits for wells MW-07, MW-08, and MW-09A. This data confirmed that groundwater contamination was limited to the area of free product, and additional groundwater delineation was not warranted.

SES proposed a pilot study using EFR with the addition of a surfactant. From December 9, 2013, through February 18, 2014, SES subcontractor EcoVac Services implemented its proprietary SURFAC® technology (U.S. Patent No. 6,158,924) at the Building 419 site to remove separate phase hydrocarbons. SURFAC® involves surfactant injection and capture coupled with multiphase/dual-phase extraction. This EFR pilot study strategy was approved by Mr. Guentert of the Georgia EPD Solid Waste Management Program (Guentert, December 2013).

D. Enhanced Fluid Recovery Pilot Study and SURFAC® Events (Corrective Action Plan Part B)

The EFR pilot study and surfactant injections were performed during 11 events (No. 4 through No. 14) from December 9, 2013, through February 18, 2014. A calculated total of 413.7 pounds of petroleum hydrocarbons (approximately 62.2 equivalent gallons of petroleum hydrocarbons) was recovered during the pilot test. Approximately 2,776 gallons of a surfactant aqueous solution were injected into MW-04, RW-04, RW-05, and RW-06 throughout the SURFAC® process. A total of 13,222 gallons of liquid was recovered and transported to Georgia Petroleum in Valdosta, Georgia, for disposal.

The pilot test demonstrated that surfactant injection in these four wells was effective for free product removal.

E. SURFAC® Injection Events 15 through 31 (October 28, 2014, through December 17, 2014)

A series of 17 SURFAC® injections (events 15 through 31) were conducted between October 28, 2014, and December 17, 2014. During these events, a total of 370 pounds of petroleum hydrocarbons

(approximately 56.3 equivalent gallons of petroleum hydrocarbons) was recovered. A total of 6,602 gallons of petroleum-impacted water was transported to Georgia Petroleum in Valdosta, Georgia, for disposal.

F. Installation of Five Recovery Wells

On September 14 and September 15, 2016, the USACE Savannah District installed five recovery wells at Building 419 (RW-07, RW-08, RW-09, RW-10, and RW-11) using hollow stem augers in accordance with "Design and Installation of Monitoring Wells" (EPA Region 4, January 2013). The wells were installed around recovery wells RW-04 and RW-05 to provide additional well points for product recovery. Each well was installed to approximately 15 feet bgs with 10 feet of screen.

G. SURFAC® Injection Events 32 through 46 (June 19, 2017, through January 11, 2018)

A series of 15 SURFAC® injections (events 32 through 46) were conducted between June 19, 2017, and January 11, 2018. During these events, a total of 670.1 pounds of petroleum hydrocarbons (approximately 102 equivalent gallons of petroleum hydrocarbons) was recovered. A total of 21,162 gallons of petroleum-impacted water was transported to Georgia Petroleum in Valdosta, Georgia, for disposal (SES, December 2017, and SES, April 2018).

H. Groundwater Sampling Event February 14 through February 15, 2018

During the February 2018 sampling event, groundwater samples for BTEX were collected from monitor wells MW-01, MW-02, MW-03, MW-04, MW-05, MW-06, MW-07, MW-08, and MW-09A following EPA guidance (EPA Region 4, April 2017). No samples were analyzed for PAHs because prior PAH sampling results were below GUST detection limits. Samples were shipped to Empirical Laboratories in Nashville, Tennessee, for analysis. No detections above the GUST detection limits for BTEX were found in any of the nine monitor wells; therefore, all detections were below the Georgia IWQS and maximum contaminant levels (SES, 2018).

III. ACTIVITIES AND ASSESSMENT OF EXISTING CONDITIONS

A. Potentiometric Data

Historically, potentiometric surface maps have shown a gradient northward. Figures 2A and 2B include potentiometric surface maps and groundwater elevations for the site at Building 419 before the sampling event on February 13, 2018, and before the sampling event on May 8, 2018. Both February and May events had groundwater flow with a northward gradient. On May 8, 2018, free product was measured in recovery wells RW-05, RW-06, and RW-09 at a thickness of 0.09, 0.02, and 0.87 feet, respectively, while collecting initial groundwater elevation measurements. Figure 2C shows product thickness on site on May 8, 2018. Groundwater elevation data can be found in Table 1 (Appendix II).

B. Analytical Data May 8, 2018

During the May 2018 sampling event, groundwater samples for BTEX were collected from monitor wells MW-01, MW-02, MW-03, MW-04, MW-05, MW-06, MW-07, MW-08, and MW-09A following EPA guidance (EPA Region 4, April 2017). No samples were analyzed for PAHs because prior PAH sampling results were below GUST detection limits. Samples were shipped to Empirical Laboratories in Nashville, Tennessee, for analysis. No detections above the GUST detection limits for BTEX were found. Monitor well MW-04 had an estimated laboratory value of 1.35 µg/L for ethylbenzene, which was not above the GUST detection limits of 5 µg/L. Figure 3A shows the groundwater quality map from the February 13-14, 2018, sampling event, and Figure 3B shows the groundwater quality map from the May 8, 2018, sampling event. Table 2 (Appendix II) shows the laboratory results. The laboratory data package can be found in Appendix IV.

C. Other Activities

Depth to water and free product measurements were obtained from all site monitor wells and recovery wells. Only recovery wells RW-05, RW-06, and RW-09 had measureable free product.

IV. SITE RANKING

The Environmental Site Sensitivity Score for the CAP-Part A was 294,878 (October 29, 2013). The Environmental Site Sensitivity Score for the CAP-Part B was 96,606 (June 3, 2014). The current site

ranking for the groundwater monitoring is 64,350 (May 8, 2018). The Environmental Site Sensitivity Score is calculated in Appendix III.

V. CONCLUSIONS AND RECOMMENDATIONS

During the May 2018 groundwater monitoring from site monitor wells, free product was measured in recovery wells RW-05, RW-06, and RW-09 at a thickness of 0.09, 0.02, and 0.87 feet, respectively. Monitor wells had no detections above the GUST detection limits for BTEX. Monitor well MW-04 had an estimated laboratory value of 1.35 µg/L for ethylbenzene, which is below the GUST detection limit of 5 µg/L.

Because free product was measured in site recovery wells RW-05, RW-06, and RW-09, SES recommends additional site remediation followed by additional groundwater monitoring.

VI. REFERENCES

Environmental Protection Agency (EPA) Region 4, November 2007. "Soil Sampling" (SESDPROC-300-R0).

EPA Region 4, February 2008. "Design and Installation of Monitoring Wells" (SESDGUID-101-R0).

EPA Region 4, January 2013. "Design and Installation of Monitoring Wells" (SESDGUID-101-R1).

EPA Region 4, April 2017. "Groundwater Sampling" (SESDPROC-301-R4).

Georgia Department of Natural Resources Environmental Protection Division (Georgia EPD), January 2011. *Corrective Action Plan Part A Guidance Document 2011*.

Georgia EPD, April 2014. Letter to Ms. Algeana Stevenson. *Underground Injection Control Permit #594 for Injection of EFS™ (Surfactant), Building 419 (Heating Oil Spill) Site, U.S. Army Garrison, Fort Stewart, Georgia.*

Guentert, James S. Letter to Tressa Rutland, August 2012. *Heating Oil Spill Site, Bldg 419—Ft. Stewart, Georgia.*

Guentert, James S. Letter to Tressa Rutland, December 2013. *Heating Oil Spill Site, Bldg 419 – Ft. Stewart, Georgia.*

SpecPro Environmental Services (SES), August 2012. *Final Preliminary Assessment and Site Investigation Report for Heating Oil Spill Site Investigation at Building 419 Fort Stewart, Georgia*.

SES, July 2013 (Revision 1). *Final Work Plan Addendum for Heating Oil Spill Site Investigation Building 419, Fort Stewart, Georgia*.

SES, November 2013. *Final UST Corrective Action Plan Part A Building 419, Fort Stewart, Georgia*.

SES, August 2014. *Final UST Corrective Action Plan-Part B Building 419, Fort Stewart, Georgia.*

SES, December 2017. *Final Active Remediation Progress Report AAFES Furniture Store, Heating Oil UST, Building 419, Steele Avenue, Liberty County, Fort Stewart, Georgia*.

SES, April 2018. *Final Monitoring Only Report AAFES Furniture Store, Heating Oil UST, Building 419, Steele Avenue, Liberty County, Fort Stewart, Georgia.*

U.S. Army Corps of Engineers Savannah District, February 2012. "Scope of Work for Heating Oil Spill Site Investigation Building 419 Fort Stewart, Georgia."

Appendix I

Report Figures

LEGEND

Site Location

Job Title: AAFES Furniture Store, Heating Oil UST, Building 419
Steele Ave., Liberty County
Fort Stewart, Georgia
Source: ESRI, Fort Stewart GIS

Figure 1 Site Location Map

Document Path: R:\Projects_E\E0209\E0209.0029 Building 419 2012\Graphics\Monitoring Event 2\Fort Stewart Fig 1 Site Location Map.mxd

North

Open Ditch

Box Culvert

Open Ditch

Open Ditch

Steele Avenue

MW-01

RW-02

RW-03

MW-06

RW-08

RW-04

RW-09

MW-05

MW-07

RW-07

RW-01

RW-11

RW-10

RW-05

MW-03

RW-06

Mechanical Area Inaccessible

Shed

Truck Bay

MW-04

MW-02

Commissary Building 421

Post Exchange Building 419

MW-08

MW-09A

50' 0 50'

SCALE: 1" = 50'

Legend

- Roads
- Buildings
- Storm Water
- Water Line
- Communications
- Open Ditch
- Former UST
- UST Piping (removed)
- Sanitary Sewer
- MW-09A Monitor Well
- RW-10 Recovery Well
- Storm Water Inlet

SpecPro Environmental Services LLC
1006 Floyd Culler Court
Oak Ridge, Tennessee 37830

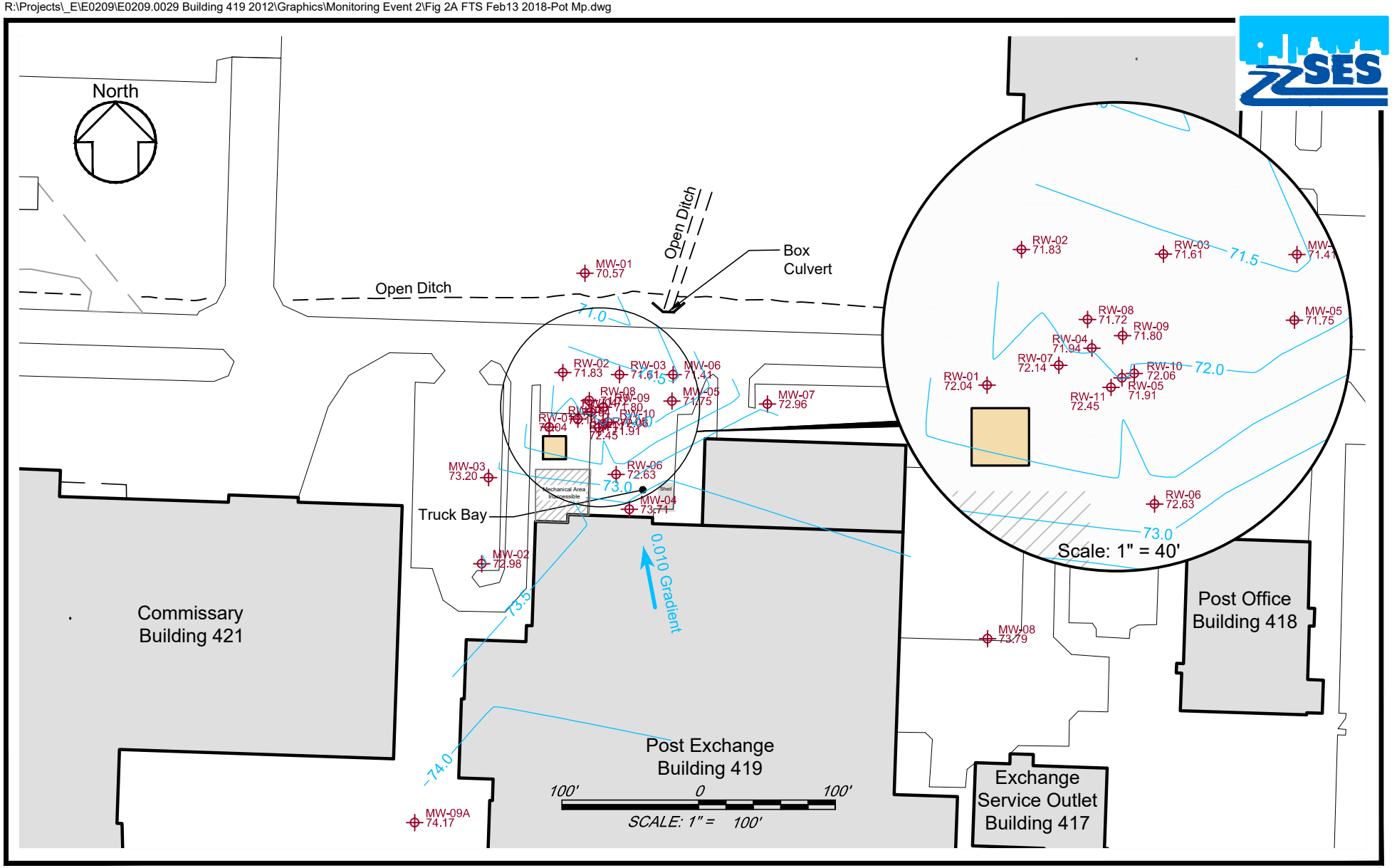
Job Title: AAFES Furniture Store, Heating Oil UST, Building 419
Steele Ave., Liberty County
Fort Stewart, Georgia
Source: Fort Stewart GIS

Figure 1A Site Plan

R:\Projects_EIE0209\E0209.0029 Building 419 2012\Graphics\Monitoring Event 2\Fig 1A FTS Former UST Site Plan.dwg

R:\Projects_E\E0209\E0209.0029 Building 419 2012\Graphics\Monitoring Event 2\Fig 2A FTS Feb13 2018-Pot Mp.dwg

E0209.0029



Legend

- Former UST
- Buildings
- MW-09A Monitor Well
- RW-10 Recovery Well
- Groundwater Flow Direction
- Groundwater Contour

Job Title: AAFES Furniture Store, Heating Oil UST, Building 419
Steele Ave., Liberty County
Fort Stewart, Georgia
Source: Fort Stewart GIS

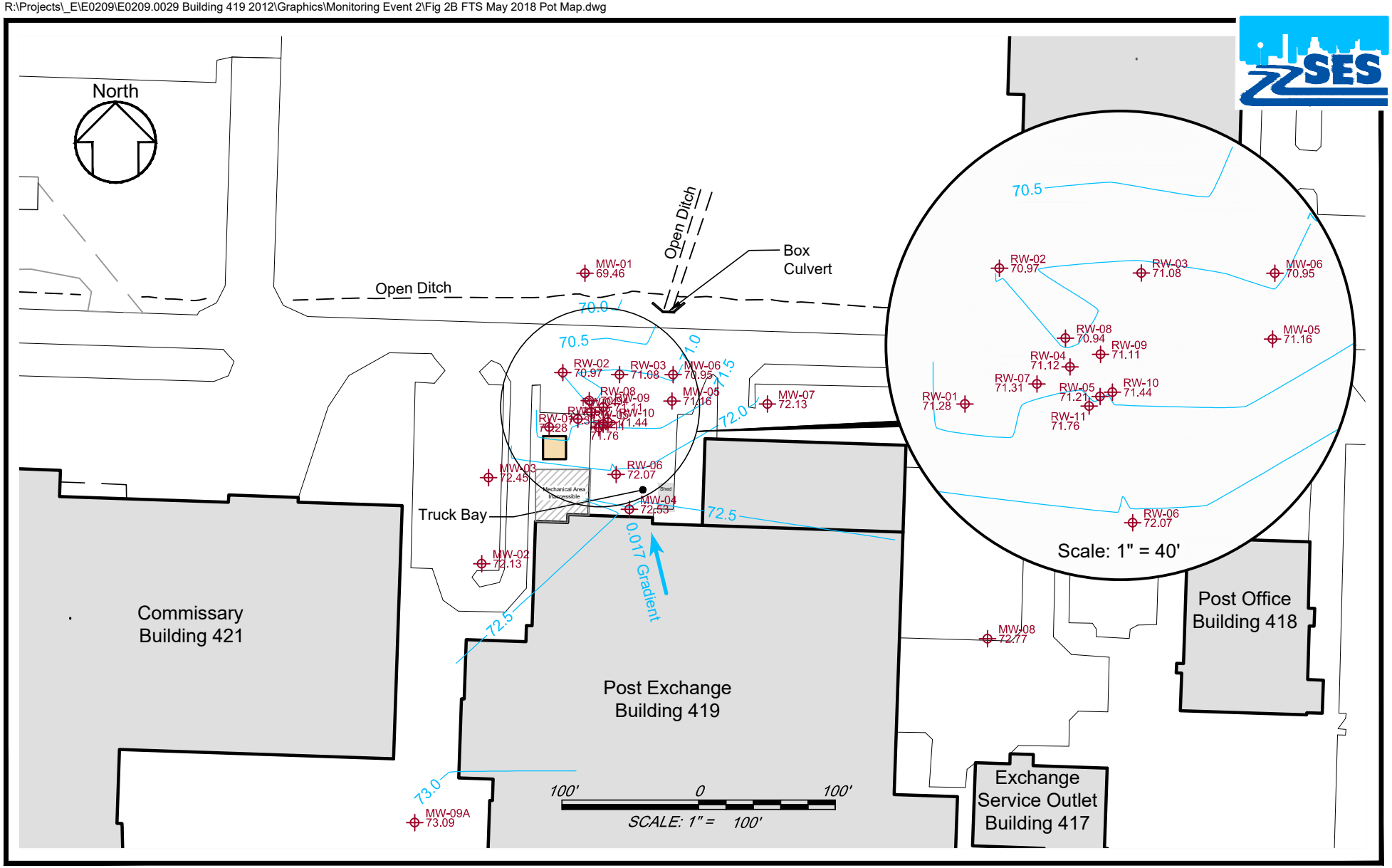
Figure 2A February 13, 2018, before Sampling Potentiometric Map

I-3

7/16/18

R:\Projects_E\E0209\E0209.0029 Building 419 2012\Graphics\Monitoring Event 2\Fig 2B FTS May 2018 Pot Map.dwg

E0209.0029



Legend

Former UST	MW-09A Monitor Well		Groundwater Flow Direction
Buildings	RW-10 Recovery Well		Groundwater Contour

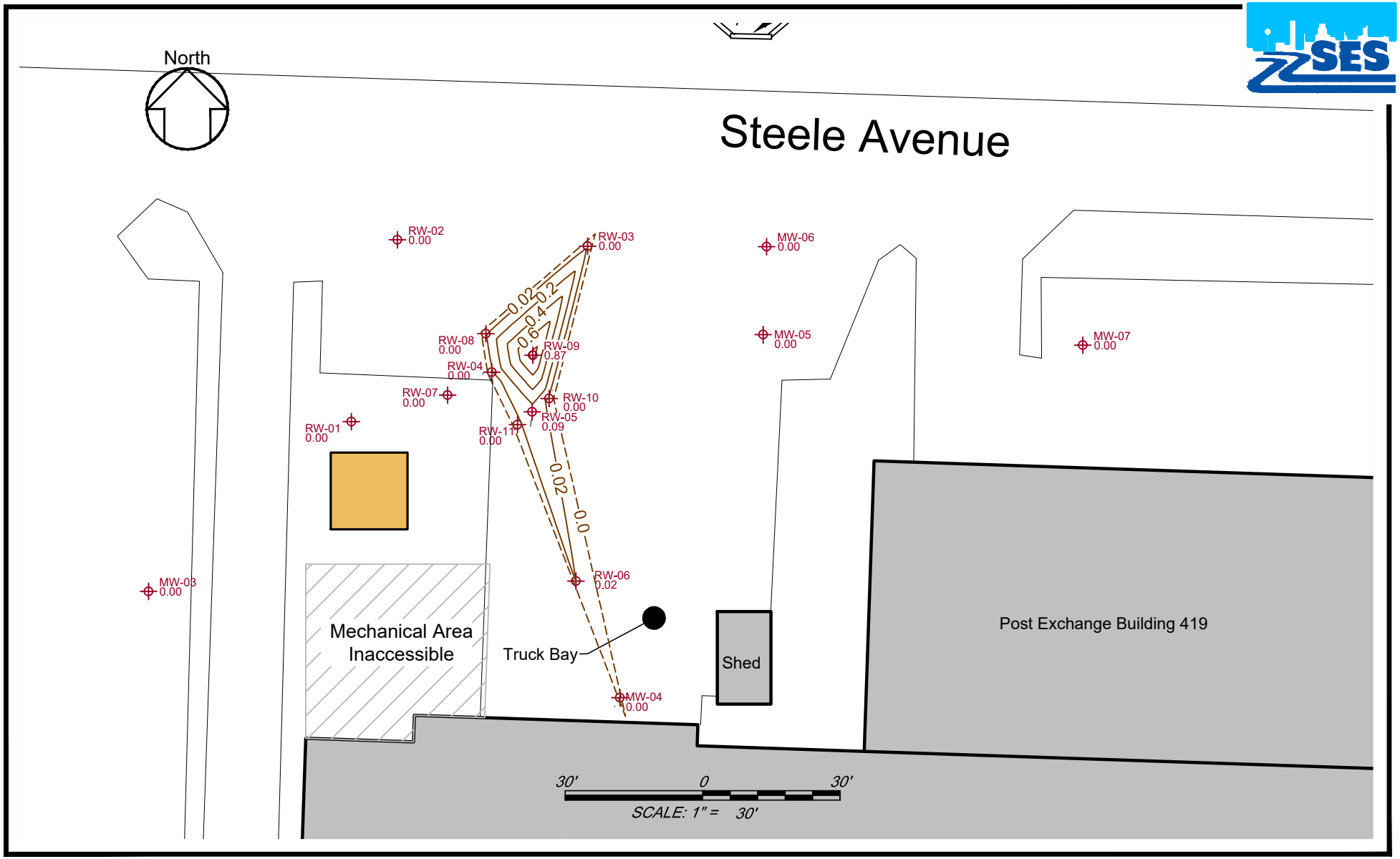
Figure 2B May 8, 2018, before Sampling Potentiometric Map

I-4

7/16/18

R:\Projects_E\E0209\E0209.0029 Building 419 2012\Graphics\Monitoring Event 2\Fig 2C FTS Product Thickness.dwg

E0209.0029



Legend

	Former UST	MW-09A	Monitor Well	0.09	Free Product Thickness
	Buildings	RW-10	Recovery Well		Free Product Thickness (contour)
					Free Product Thickness 0.0

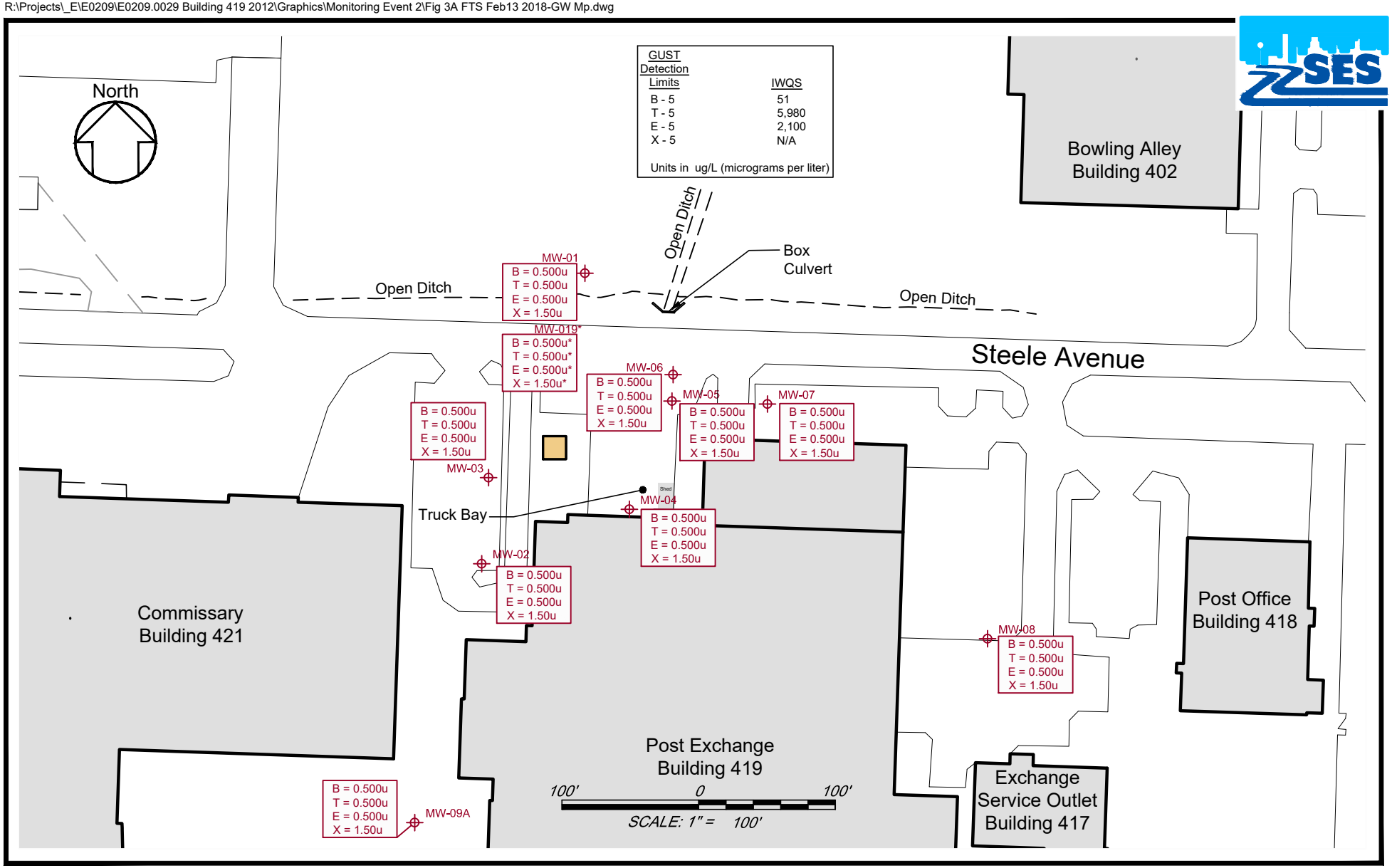
Figure 2C May 8, 2018, Free Product Thickness Map

I-5

7/16/18

R:\Projects_E\E0209\E0209.0029 Building 419 2012\Graphics\Monitoring Event 2\Fig 3A FTS Feb13 2018-GW Mp.dwg

E0209.0029



Legend

- Former UST
- Buildings
- MW-09A Monitor Well
- * Duplicate Sample
- B = Benzene
- T = Toluene
- E = Ethylbenzene
- X = Xylene
- IWQS = In-Stream Water Quality Standard
- Results = micrograms per liter (ug/L)

Job Title: AAFES Furniture Store, Heating Oil UST, Building 419
Steele Ave., Liberty County
Fort Stewart, Georgia
Source: Fort Stewart GIS

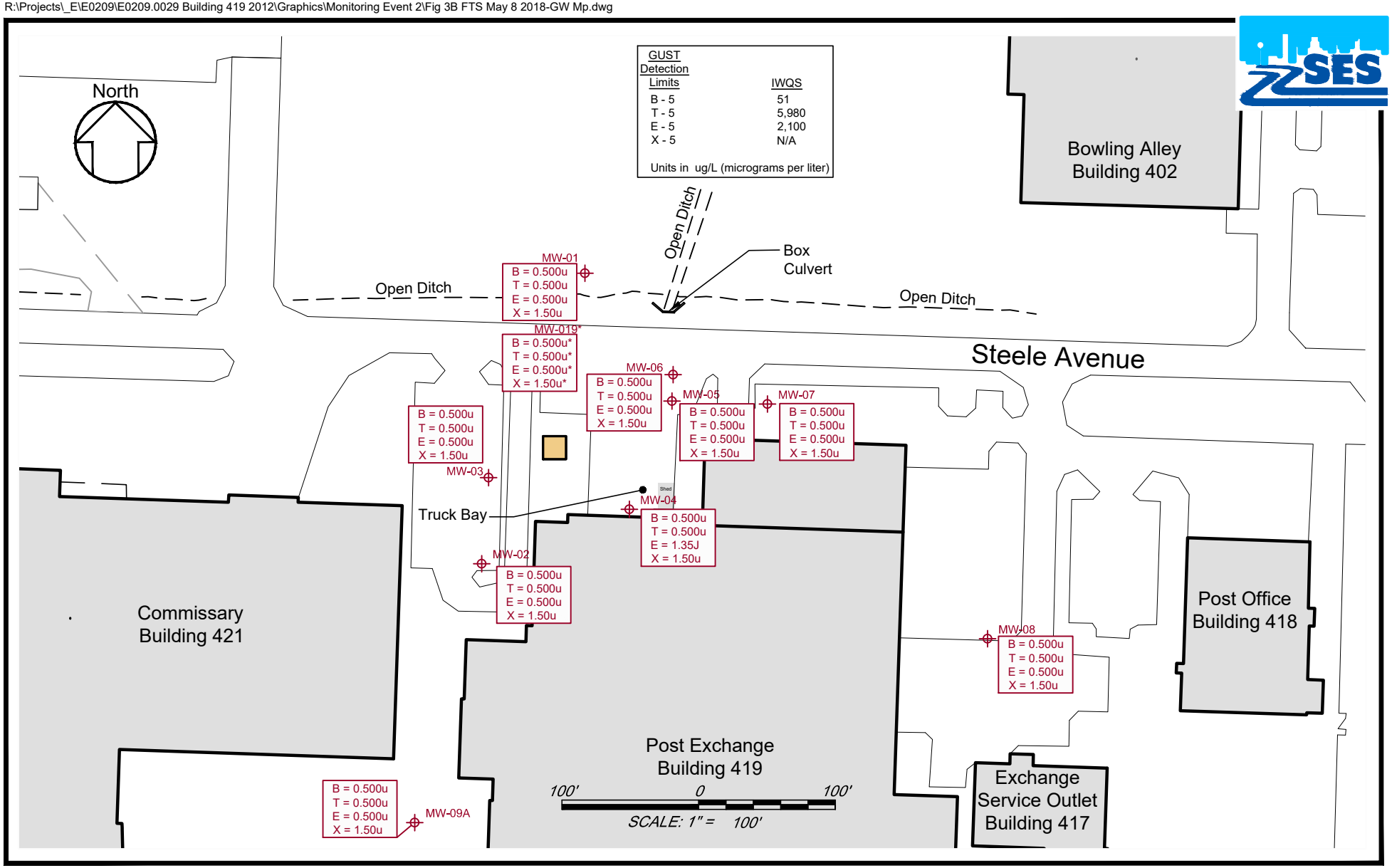
Figure 3A February 13-14, 2018, Groundwater Quality Map

I-6

7/16/18

R:\Projects_E\E0209\E0209.0029 Building 419 2012\Graphics\Monitoring Event 2\Fig 3B FTS May 8 2018-GW Mp.dwg

E0209.0029



Legend

- Former UST
- Buildings
- MW-09A Monitor Well
- * Duplicate Sample
- B = Benzene
- T = Toluene
- E = Ethylbenzene
- X = Xylene
- IWQS = In-Stream Water Quality Standard
- Results = micrograms per liter (ug/L)

Job Title: AAFES Furniture Store, Heating Oil UST, Building 419
Steele Ave., Liberty County
Fort Stewart, Georgia
Source: Fort Stewart GIS

Figure 3B May 8, 2018, Groundwater Quality Map

I-7

7/16/18

Appendix II

Report Tables

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1: Groundwater Elevations

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
Groundwater Elevations and Product Thickness, February 13, 2008								
RW-01	2/13/08	79.43	79.25	5.2-15.2	6.71	7.71	1.00	70.72
RW-02	2/13/08	79.55	79.22	5.1-15.1	N/A	8.01	0	71.21
RW-03	2/13/08	79.23	79.09	5.12-15.12	N/A	8.03	0	71.06
RW-04	2/13/08	79.35	78.98	5.81-15.81	5.91	7.91	2.00	69.43
RW-05	2/13/08	79.54	79.19	5.12-15.12	5.83	7.83	2.00	69.72
RW-06	2/13/08	77.69	77.59	5-10	1.31	4.31	3.00	70.82
Groundwater Monitoring April 2011, Preliminary Assessment and Site Investigation								
RW-01	4/11/11	79.43	79.25	5.2-15.2	7.95	7.96	0.01	71.30
RW-02	4/11/11	79.55	79.22	5.1-15.1	N/A	8.25	0	70.97
RW-03	4/11/11	79.23	79.09	5.12-15.12	Well not accessible for monitoring because of parked vehicle.			
RW-04	4/11/11	79.35	78.98	5.81-15.81	7.24	11.18	3.94	71.03
RW-05	4/11/11	79.54	79.19	5.12-15.12	7.41	11.06	3.65	71.12
RW-06	4/11/11	77.69	77.59	5-10	5.24	6.13	0.89	72.19
MW-01	4/11/11	76.57	76.29	4-14	N/A	6.81	0	69.48
MW-02	4/11/11	79.71	79.38	4-14	N/A	7.28	0	72.10
MW-03	4/11/11	80.22	79.94	4-14	N/A	6.65	0	73.29
MW-04	4/11/11	77.12	76.78	4-14	N/A	3.95	0	72.83
MW-05	4/11/11	79.30	78.92	4-14	N/A	7.74	0	71.18
MW-06	4/11/11	79.28	78.92	4-14	N/A	8.11	0	70.81
Enhanced Fluid Recovery Event 1, June 2011 – Before Recovery								
RW-01	6/12/11	79.43	79.25	5.2-15.2	8.54	8.79	0.25	70.67
RW-02	6/12/11	79.55	79.22	5.1-15.1	N/A	8.03	0	71.19
RW-03	6/12/11	79.23	79.09	5.12-15.12	Well not accessible for monitoring because of parked vehicle.			
RW-04	6/12/11	79.35	78.98	5.81-15.81	7.60	12.10	4.50	70.57
RW-05	6/12/11	79.54	79.19	5.12-15.12	7.81	11.60	3.79	70.70
RW-06	6/12/11	77.69	77.59	5-10	5.79	6.81	1.02	71.62
MW-01	6/12/11	76.57	76.29	4-14	N/A	7.64	0	68.65
MW-02	6/12/11	79.71	79.38	4-14	N/A	8.01	0	71.37
MW-03	6/12/11	80.22	79.94	4-14	N/A	7.66	0	72.28
MW-04	6/12/11	77.12	76.78	4-14	4.51	4.93	0.42	72.19
MW-05	6/12/11	79.30	78.92	4-14	N/A	8.60	0	70.32
MW-06	6/12/11	79.28	78.92	4-14	N/A	8.49	0	70.43

Prepared by: Chris Napoleon, PG Date: June 5, 2014
Reviewed by: Doug Hawn Date: June 6, 2014

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1: Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
Enhanced Fluid Recovery Event 1, June 2011 – After Recovery								
RW-01	6/12/11	79.43	79.25	5.2-15.2	N/A	10.09	0	69.16
RW-02	6/12/11	79.55	79.22	5.1-15.1	N/A	9.62	0	69.60
RW-03	6/12/11	79.23	79.09	5.12-15.12	Well not accessible for monitoring because of parked vehicle.			
RW-04	6/12/11	79.35	78.98	5.81-15.81	N/A	9.89	0	69.09
RW-05	6/12/11	79.54	79.19	5.12-15.12	N/A	10.36	0	68.83
RW-06	6/12/11	77.69	77.59	5-10	N/A	8.09	0	69.50
MW-01	6/12/11	76.57	76.29	4-14	N/A	5.25	0	71.04
MW-02	6/12/11	79.71	79.38	4-14	N/A	8.19	0	71.19
MW-03	6/12/11	80.22	79.94	4-14	N/A	7.74	0	72.20
MW-04	6/12/11	77.12	76.78	4-14	N/A	7.89	0	68.89
MW-05	6/12/11	79.30	78.92	4-14	N/A	8.73	0	70.19
MW-06	6/12/11	79.28	78.92	4-14	N/A	8.84	0	70.08
Enhanced Fluid Recovery Event 2, July 2011 – Before Recovery								
RW-01	7/17/11	79.43	79.25	5.2-15.2	8.41	8.46	0.05	70.83
RW-02	7/17/11	79.55	79.22	5.1-15.1	N/A	8.67	0	70.55
RW-03	7/17/11	79.23	79.09	5.12-15.12	Well not accessible for monitoring because of parked vehicle.			
RW-04	7/17/11	79.35	78.98	5.81-15.81	7.79	10.05	2.26	70.78
RW-05	7/17/11	79.54	79.19	5.12-15.12	7.86	10.45	2.59	70.86
RW-06	7/17/11	77.69	77.59	5-10	5.80	6.27	0.47	71.71
MW-01	7/17/11	76.57	76.29	4-14	N/A	7.31	0	68.98
MW-02	7/17/11	79.71	79.38	4-14	N/A	7.79	0	71.59
MW-03	7/17/11	80.22	79.94	4-14	N/A	7.49	0	72.45
MW-04	7/17/11	77.12	76.78	4-14	4.42	4.88	0.46	72.28
MW-05	7/17/11	79.30	78.92	4-14	N/A	8.05	0	70.87
MW-06	7/17/11	79.28	78.92	4-14	N/A	8.31	0	70.61
Enhanced Fluid Recovery Event 2, July 2011 – After Recovery								
RW-01	7/17/11	79.43	79.25	5.2-15.2	N/A	11.51	0	67.74
RW-02	7/17/11	79.55	79.22	5.1-15.1	N/A	9.29	0	69.93
RW-03	7/17/11	79.23	79.09	5.12-15.12	Well not accessible for monitoring because of parked vehicle.			
RW-04	7/17/11	79.35	78.98	5.81-15.81	N/A	11.63	0	67.35
RW-05	7/17/11	79.54	79.19	5.12-15.12	N/A	10.56	0	68.63

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
RW-06	7/17/11	77.69	77.59	5-10	N/A	8.26	0	69.33
MW-01	7/17/11	76.57	76.29	4-14	N/A	7.41	0	68.88
MW-02	7/17/11	79.71	79.38	4-14	N/A	8.03	0	71.35
MW-03	7/17/11	80.22	79.94	4-14	N/A	7.59	0	72.35
MW-04	7/17/11	77.12	76.78	4-14	N/A	6.61	0	70.17
MW-05	7/17/11	79.30	78.92	4-14	N/A	8.65	0	70.27
MW-06	7/17/11	79.28	78.92	4-14	N/A	8.77	0	70.15
Enhanced Fluid Recovery Event 3, August 2011 – Before Recovery								
RW-01	8/6/11	79.43	79.25	5.2-15.2	N/A	8.05	0	71.20
RW-02	8/6/11	79.55	79.22	5.1-15.1	N/A	8.70	0	70.52
RW-03	8/6/11	79.23	79.09	5.12-15.12	Well not accessible for monitoring because of parked vehicle.			
RW-04	8/6/11	79.35	78.98	5.81-15.81	7.99	9.39	1.40	70.74
RW-05	8/6/11	79.54	79.19	5.12-15.12	8.04	9.09	1.05	70.96
RW-06	8/6/11	77.69	77.59	5-10	5.96	6.43	0.47	71.55
MW-01	8/6/11	76.57	76.29	4-14	N/A	7.26	0	69.03
MW-02	8/6/11	79.71	79.38	4-14	N/A	7.62	0	71.76
MW-03	8/6/11	80.22	79.94	4-14	N/A	8.86	0	71.08
MW-04	8/6/11	77.12	76.78	4-14	4.59	4.94	0.35	72.13
MW-05	8/6/11	79.30	78.92	4-14	N/A	8.06	0	70.86
MW-06	8/6/11	79.28	78.92	4-14	N/A	8.35	0	70.57
Enhanced Fluid Recovery Event 3, August 2011 – After Recovery								
RW-01	8/7/11	79.43	79.25	5.2-15.2	N/A	9.64	0	69.61
RW-02	8/7/11	79.55	79.22	5.1-15.1	N/A	9.39	0	69.83
RW-03	8/7/11	79.23	79.09	5.12-15.12	Well not accessible for monitoring because of parked vehicle.			
RW-04	8/7/11	79.35	78.98	5.81-15.81	N/A	11.56	0	67.42
RW-05	8/7/11	79.54	79.19	5.12-15.12	N/A	10.98	0	68.21
RW-06	8/7/11	77.69	77.59	5-10	N/A	8.99	0	68.60
MW-01	8/7/11	76.57	76.29	4-14	N/A	7.54	0	68.75
MW-02	8/7/11	79.71	79.38	4-14	N/A	7.76	0	71.62
MW-03	8/7/11	80.22	79.94	4-14	N/A	8.88	0	71.06
MW-04	8/7/11	77.12	76.78	4-14	N/A	7.47	0	69.31
MW-05	8/7/11	79.30	78.92	4-14	N/A	8.98	0	69.94
MW-06	8/7/11	79.28	78.92	4-14	N/A	8.87	0	70.05

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
Groundwater Monitoring August 2013								
RW-01	8/8/13	79.43	79.25	5.2-15.2	N/A	7.40	0	71.85
RW-02	8/8/13	79.55	79.22	5.1-15.1	Well not accessible for monitoring because of parked vehicle.			
RW-03	8/8/13	79.23	79.09	5.12-15.12	Well not accessible for monitoring because of parked vehicle.			
RW-04	8/8/13	79.35	78.98	5.81-15.81	6.93	9.2	2.27	71.64
RW-05	8/8/13	79.54	79.19	5.12-15.12	6.82	9.37	2.55	71.91
RW-06	8/8/13	77.69	77.59	5-10	4.13	8.15	4.02	72.74
MW-01	8/8/13	76.57	76.29	4-14	N/A	6.28	0	70.01
MW-02	8/8/13	79.71	79.38	4-14	N/A	6.68	0	72.70
MW-03	8/8/13	80.22	79.94	4-14	N/A	6.25	0	73.69
MW-04	8/8/13	77.12	76.78	4-14	2.91	4.61	1.70	73.56
MW-05	8/8/13	79.30	78.92	4-14	N/A	7.28	0	71.64
MW-06	8/8/13	79.28	78.92	4-14	N/A	7.80	0	71.12
MW-07	8/8/13	79.09	78.74	5-15	N/A	5.71	0	73.03
MW-08	8/8/13	80.15	79.90	5-15	N/A	5.84	0	74.06
MW-09A	8/8/13	80.54	80.30	4-14	N/A	6.17	0	74.13
Enhanced Fluid Recovery Events 4 and 5, December 9, 2013 – Before Recovery								
RW-01	12/9/13	79.43	79.25	5.2-15.2	N/A	7.87	0	71.38
RW-02	12/9/13	79.55	79.22	5.1-15.1	N/A	8.16	0	71.06
RW-03	12/9/13	79.23	79.09	5.12-15.12	N/A	8.23	0	70.86
RW-04	12/9/13	79.35	78.98	5.81-15.81	7.44	9.89	2.45	71.10
RW-05	12/9/13	79.54	79.19	5.12-15.12	7.67	9.27	1.60	71.23
RW-06	12/9/13	77.69	77.59	5-10	4.87	8.76	3.89	72.02
MW-01	12/9/13	76.57	76.29	4-14	N/A	6.21	0	70.08
MW-02	12/9/13	79.71	79.38	4-14	N/A	7.02	0	72.36
MW-03	12/9/13	80.22	79.94	4-14	N/A	7.26	0	72.68
MW-04	12/9/13	77.12	76.78	4-14	3.81	5.13	1.32	72.73
MW-05	12/9/13	79.30	78.92	4-14	N/A	7.78	0	71.14
MW-06	12/9/13	79.28	78.92	4-14	N/A	8.12	0	70.80
MW-07	12/9/13	79.09	78.74	5-15	N/A	6.41	0	72.33
MW-08	12/9/13	80.15	79.90	5-15	N/A	6.88	0	73.02
MW-09A	12/9/13	80.54	80.30	4-14	N/A	6.96	0	73.34

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
Enhanced Fluid Recovery Events 6 and 7, January 7, 2014 – Before Recovery								
RW-01	1/7/14	79.43	79.25	5.2-15.2	N/A	7.49	0	71.76
RW-02	1/7/14	79.55	79.22	5.1-15.1	N/A	7.66	0	71.56
RW-03	1/7/14	79.23	79.09	5.12-15.12	N/A	7.95	0	71.14
RW-04	1/7/14	79.35	78.98	5.81-15.81	7.28	8.37	1.09	71.50
RW-05	1/7/14	79.54	79.19	5.12-15.12	N/A	8.06	0	71.13
RW-06	1/7/14	77.69	77.59	5-10	4.94	5.80	0.86	72.50
MW-01	1/7/14	76.57	76.29	4-14	N/A	5.99	0	70.30
MW-02	1/7/14	79.71	79.38	4-14	N/A	6.53	0	72.85
MW-03	1/7/14	80.22	79.94	4-14	N/A	6.82	0	73.12
MW-04	1/7/14	77.12	76.78	4-14	3.68	4.42	0.74	72.97
MW-05	1/7/14	79.30	78.92	4-14	N/A	7.44	0	71.48
MW-06	1/7/14	79.28	78.92	4-14	N/A	7.84	0	71.08
MW-07	1/7/14	79.09	78.74	5-15	N/A	5.94	0	72.80
MW-08	1/7/14	80.15	79.90	5-15	N/A	6.24	0	73.66
MW-09A	1/7/14	80.54	80.30	4-14	N/A	6.49	0	73.71
Enhanced Fluid Recovery Event 8, February 10, 2014 – Before Recovery								
RW-01	2/10/14	79.43	79.25	5.2-15.2	N/A	7.68	0	71.57
RW-02	2/10/14	79.55	79.22	5.1-15.1	N/A	7.96	0	71.26
RW-03	2/10/14	79.23	79.09	5.12-15.12	N/A	8.12	0	70.97
RW-04	2/10/14	79.35	78.98	5.81-15.81	7.47	9.92	2.45	71.37
RW-05	2/10/14	79.54	79.19	5.12-15.12	7.70	8.44	0.74	71.36
RW-06	2/10/14	77.69	77.59	5-10	5.12	6.32	1.20	72.25
MW-01	2/10/14	76.57	76.29	4-14	N/A	6.38	0	69.91
MW-02	2/10/14	79.71	79.38	4-14	N/A	6.86	0	72.52
MW-03	2/10/14	80.22	79.94	4-14	N/A	7.13	0	72.81
MW-04	2/10/14	77.12	76.78	4-14	3.75	4.70	0.95	72.86
MW-05	2/10/14	79.30	78.92	4-14	N/A	7.63	0	71.29
MW-06	2/10/14	79.28	78.92	4-14	N/A	8.01	0	71.29
MW-07	2/10/14	79.09	78.74	5-15	N/A	6.21	0	72.53
MW-08	2/10/14	80.15	79.90	5-15	N/A	6.65	0	73.25
MW-09A	2/10/14	80.54	80.30	4-14	N/A	6.83	0	73.47
Enhanced Fluid Recovery Event 9, February 11, 2014 – Before Recovery								
RW-01	2/11/14	79.43	79.25	5.2-15.2	N/A	7.77	0	71.48
RW-02	2/11/14	79.55	79.22	5.1-15.1	N/A	8.02	0	71.20

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
RW-03	2/11/14	79.23	79.09	5.12-15.12	N/A	8.15	0	70.94
RW-04	2/11/14	79.35	78.98	5.81-15.81	N/A	7.05	0	71.93
RW-05	2/11/14	79.54	79.19	5.12-15.12	N/A	5.87	0	73.32
RW-06	2/11/14	77.69	77.59	5-10	N/A	4.84	0	72.75
MW-01	2/11/14	76.57	76.29	4-14	N/A	6.36	0	69.93
MW-02	2/11/14	79.71	79.38	4-14	N/A	6.89	0	72.49
MW-03	2/11/14	80.22	79.94	4-14	N/A	7.15	0	72.79
MW-04	2/11/14	77.12	76.78	4-14	N/A	3.98	0	72.80
MW-05	2/11/14	79.30	78.92	4-14	N/A	7.69	0	71.23
MW-06	2/11/14	79.28	78.92	4-14	N/A	8.07	0	70.85
MW-07	2/11/14	79.09	78.74	5-15	N/A	6.24	0	72.50
MW-08	2/11/14	8.15	79.90	5-15	N/A	6.67	0	73.23
MW-09A	2/11/14	80.54	80.30	4-14	N/A	6.85	0	73.45
Enhanced Fluid Recovery Event 10, February 12, 2014 – Before Recovery								
RW-01	2/12/14	79.43	79.25	5.2-15.2	N/A	7.68	0	71.57
RW-02	2/12/14	79.55	79.22	5.1-15.1	N/A	7.71	0	71.51
RW-03	2/12/14	79.23	79.09	5.12-15.12	N/A	7.96	0	71.13
RW-04	2/12/14	79.35	78.98	5.81-15.81	N/A	6.96	0	72.02
RW-05	2/12/14	79.54	79.19	5.12-15.12	N/A	6.64	0	72.55
RW-06	2/12/14	77.69	77.59	5-10	N/A	4.06	0	73.53
MW-01	2/12/14	76.57	76.29	4-14	N/A	6.26	0	70.03
MW-02	2/12/14	79.71	79.38	4-14	Well not accessible for monitoring because of parked vehicle.			
MW-03	2/12/14	80.22	79.94	4-14	N/A	6.58	0	73.36
MW-04	2/12/14	77.12	76.78	4-14	N/A	1.98	0	74.80
MW-05	2/12/14	79.30	78.92	4-14	N/A	7.53	0	71.39
MW-06	2/12/14	79.28	78.92	4-14	N/A	7.90	0	71.02
MW-07	2/12/14	79.09	78.74	5-15	N/A	6.14	0	72.60
MW-08	2/12/14	80.15	79.90	5-15	N/A	6.63	0	73.27
MW-09A	2/12/14	80.54	80.30	4-14	N/A	6.80	0	73.50
Enhanced Fluid Recovery Event 11, February 13, 2014 – Before Recovery								
RW-01	2/13/14	79.43	79.25	5.2-15.2	N/A	7.59	0	71.66
RW-02	2/13/14	79.55	79.22	5.1-15.1	N/A	7.84	0	71.38
RW-03	2/13/14	79.23	79.09	5.12-15.12	N/A	8.05	0	71.04
RW-04	2/13/14	79.35	78.98	5.81-15.81	N/A	7.53	0	71.45

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
RW-05	2/13/14	79.54	79.19	5.12-15.12	N/A	7.71	0	71.48
RW-06	2/13/14	77.69	77.59	5-10	N/A	2.95	0	74.64
MW-01	2/13/14	76.57	76.29	4-14	N/A	6.26	0	70.03
MW-02	2/13/14	79.71	79.38	4-14	N/A	6.75	0	72.63
MW-03	2/13/14	80.22	79.94	4-14	N/A	6.99	0	72.95
MW-04	2/13/14	77.12	76.78	4-14	N/A	1.81	0	74.97
MW-05	2/13/14	79.30	78.92	4-14	N/A	7.59	0	71.33
MW-06	2/13/14	79.28	78.92	4-14	N/A	7.98	0	70.94
MW-07	2/13/14	79.09	78.74	5-15	N/A	6.14	0	72.60
MW-08	2/13/14	80.15	79.90	5-15	N/A	6.58	0	73.32
MW-09A	2/13/14	80.54	80.30	4-14	N/A	6.74	0	73.56
Enhanced Fluid Recovery Event 12, February 16, 2014 – Before Recovery								
RW-01	2/16/14	79.43	79.25	5.2-15.2	N/A	7.70	0	71.55
RW-02	2/16/14	79.55	79.22	5.1-15.1	N/A	7.95	0	71.27
RW-03	2/16/14	79.23	79.09	5.12-15.12	N/A	8.11	0	70.98
RW-04	2/16/14	79.35	78.98	5.81-15.81	7.65	7.67	0.02	71.33
RW-05	2/16/14	79.54	79.19	5.12-15.12	7.39	7.41	0.02	71.80
RW-06	2/16/14	77.69	77.59	5-10	N/A	5.26	0	72.33
MW-01	2/16/14	76.57	76.29	4-14	N/A	6.32	0	69.97
MW-02	2/16/14	79.71	79.38	4-14	N/A	6.82	0	72.56
MW-03	2/16/14	80.22	79.94	4-14	N/A	7.09	0	72.65
MW-04	2/16/14	77.12	76.78	4-14	N/A	2.60	0	74.18
MW-05	2/16/14	79.30	78.92	4-14	N/A	7.66	0	71.26
MW-06	2/16/14	79.28	78.92	4-14	N/A	8.03	0	70.89
MW-07	2/16/14	79.09	78.74	5-15	N/A	6.24	0	72.50
MW-08	2/16/14	80.15	79.90	5-15	N/A	6.68	0	73.22
MW-09A	2/16/14	80.54	80.30	4-14	N/A	6.83	0	73.47
Enhanced Fluid Recovery Event 13, February 17, 2014 – Before Recovery								
RW-01	2/17/14	79.43	79.25	5.2-15.2	N/A	7.71	0	71.54
RW-02	2/17/14	79.55	79.22	5.1-15.1	N/A	7.97	0	71.25
RW-03	2/17/14	79.23	79.09	5.12-15.12	N/A	8.12	0	70.97
RW-04	2/17/14	79.35	78.98	5.81-15.81	N/A	7.70	0	71.28
RW-05	2/17/14	79.54	79.19	5.12-15.12	N/A	7.89	0	71.30
RW-06	2/17/14	77.69	77.59	5-10	N/A	5.37	0	72.22
MW-01	2/17/14	76.57	76.29	4-14	N/A	6.34	0	69.95

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
MW-02	2/17/14	79.71	79.38	4-14	N/A	6.84	0	72.54
MW-03	2/17/14	80.22	79.94	4-14	N/A	7.11	0	72.83
MW-04	2/17/14	77.12	76.78	4-14	N/A	3.38	0	73.40
MW-05	2/17/14	79.30	78.92	4-14	N/A	7.67	0	71.25
MW-06	2/17/14	79.28	78.92	4-14	N/A	8.01	0	70.91
MW-07	2/17/14	79.09	78.74	5-15	N/A	6.23	0	72.51
MW-08	2/17/14	80.15	79.90	5-15	N/A	6.69	0	73.21
			80.30	4-14	N/A	6.83	0	73.47
Enhanced Fluid Recovery Event 14, February 18, 2014 – Before Recovery								
RW-01	2/18/14	79.43	79.25	5.2-15.2	N/A	7.74	0	71.51
RW-02	2/18/14	79.55	79.22	5.1-15.1	N/A	7.94	0	71.28
RW-03	2/18/14	79.23	79.09	5.12-15.12	N/A	8.11	0	70.98
RW-04	2/18/14	79.35	78.98	5.81-15.81	N/A	7.70	0	71.28
RW-05	2/18/14	79.54	79.19	5.12-15.12	N/A	7.91	0	71.28
RW-06	2/18/14	77.69	77.59	5-10	N/A	5.43	0	72.16
MW-01	2/18/14	76.57	76.29	4-14	N/A	6.33	0	69.96
MW-02	2/18/14	79.71	79.38	4-14	N/A	6.86	0	72.52
MW-03	2/18/14	80.22	79.94	4-14	N/A	7.13	0	72.81
MW-04	2/18/14	77.12	76.78	4-14	N/A	3.73	0	73.05
MW-05	2/18/14	79.30	78.92	4-14	N/A	7.66	0	71.26
MW-06	2/18/14	79.28	78.92	4-14	N/A	8.02	0	70.90
MW-07	2/18/14	79.09	78.74	5-15	N/A	6.23	0	72.51
MW-08	2/18/14	80.15	79.90	5-15	N/A	6.69	0	73.21
MW-09A	2/18/14	80.54	80.30	4-14	N/A	6.85	0	73.45
Groundwater Monitoring May 7, 2014								
RW-01	5/7/14	79.43	79.25	5.2-15.2	N/A	7.38	0	71.87
RW-02	5/7/14	79.55	79.22	5.1-15.1	Well not accessible for monitoring because of parked vehicle.			
RW-03	5/7/14	79.23	79.09	5.12-15.12	Well not accessible for monitoring because of parked vehicle.			
RW-04	5/7/14	79.35	78.98	5.81-15.81	7.19	8.61	1.42	71.53
RW-05	5/7/14	79.54	79.19	5.12-15.12	7.31	7.38	0.07	71.87
RW-06	5/7/14	77.69	77.59	5-10	4.68	5.81	1.13	72.79
MW-01	5/7/14	76.57	76.29	4-14	N/A	6.03	0	70.26
MW-02	5/7/14	79.71	79.38	4-14	N/A	6.69	0	71.69

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
MW-03	5/7/14	80.22	79.94	4-14	N/A	6.21	0	73.43
MW-04	5/7/14	77.12	76.78	4-14	N/A	2.65	0	74.13
MW-05	5/7/14	79.30	78.92	4-14	N/A	7.32	0	71.60
MW-06	5/7/14	79.28	78.92	4-14	N/A	7.45	0	71.47
MW-07	5/7/14	79.09	78.74	5-15	N/A	5.76	0	72.98
MW-08	5/7/14	80.15	79.90	5-15	N/A	5.92	0	73.98
MW-09A	5/7/14	80.54	80.30	4-14	N/A	6.20	0	74.10
Enhanced Fluid Recovery Event 15 – Before Recovery-October 28, 2014								
RW-01	10/28/14	79.43	79.25	5.2-15.2	N/A	8.16	0	71.09
RW-02	10/28/14	79.55	79.22	5.1-15.1	N/A	8.42	0	70.80
RW-03	10/28/14	79.23	79.09	5.12-15.12	N/A	8.30	0	70.79
RW-04	10/28/14	79.35	78.98	5.81-15.81	7.81	9.54	1.73	70.86
RW-05	10/28/14	79.54	79.19	5.12-15.12	8.00	8.46	0.46	71.11
RW-06	10/28/14	77.69	77.59	5-10	5.51	7.34	1.83	71.75
MW-01	10/28/14	76.57	76.29	4-14	N/A	7.05	0	69.24
MW-02	10/28/14	79.71	79.38	4-14	N/A	7.29	0	72.09
MW-03	10/28/14	80.22	79.94	4-14	N/A	7.51	0	72.43
MW-04	10/28/14	77.12	76.78	4-14	N/A	4.31	0	72.47
MW-05	10/28/14	79.30	78.92	4-14	N/A	7.83	0	71.09
MW-06	10/28/14	79.28	78.92	4-14	N/A	8.14	0	70.78
MW-07	10/28/14	79.09	78.74	5-15	N/A	6.59	0	72.15
MW-08	10/28/14	80.15	79.90	5-15	N/A	7.09	0	72.81
MW-09A	10/28/14	80.54	80.30	4-14	N/A	7.22	0	73.03
Enhanced Fluid Recovery Event 15, October 28, 2014 – After Recovery								
RW-01	10/28/14	79.43	79.25	5.2-15.2	N/A	8.56	0	70.69
RW-02	10/28/14	79.55	79.22	5.1-15.1	N/A	8.60	0	70.62
RW-03	10/28/14	79.23	79.09	5.12-15.12	N/A	8.59	0	70.64
RW-04	10/28/14	79.35	78.98	5.81-15.81	N/A	13.95	0	65.03
RW-05	10/28/14	79.54	79.19	5.12-15.12	N/A	12.32	0	66.87
RW-06	10/28/14	77.69	77.59	5-10	N/A	9.82	0	67.77
MW-01	10/28/14	76.57	76.29	4-14	N/A	6.96	0	69.33
MW-02	10/28/14	79.71	79.38	4-14	N/A	7.32	0	72.06
MW-03	10/28/14	80.22	79.94	4-14	N/A	7.56	0	72.38

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
MW-04	10/28/14	77.12	76.78	4-14	N/A	4.46	0	72.32
MW-05	10/28/14	79.30	78.92	4-14	N/A	8.10	0	70.82
MW-06	10/28/14	79.28	78.92	4-14	N/A	8.36	0	70.56
MW-07	10/28/14	79.09	78.74	5-15	N/A	6.61	0	72.13
MW-08	10/28/14	80.15	79.90	5-15	N/A	7.09	0	72.81
MW-09A	10/28/14	80.54	80.30	4-14	N/A	7.24	0	73.06
Enhanced Fluid Recovery Event 16, October 29, 2014– Before Recovery								
RW-01	10/29/14	79.43	79.25	5.2-15.2	N/A	8.13	0	71.12
RW-02	10/29/14	79.55	79.22	5.1-15.1	N/A	8.39	0	70.83
RW-03	10/29/14	79.23	79.09	5.12-15.12	N/A	8.27	0	70.82
RW-04	10/29/14	79.35	78.98	5.81-15.81	N/A	8.04	0	70.94
RW-05	10/29/14	79.54	79.19	5.12-15.12	N/A	8.13	0	71.06
RW-06	10/29/14	77.69	77.59	5-10	N/A	5.89	0	71.70
MW-01	10/29/14	76.57	76.29	4-14	N/A	6.98	0	69.31
MW-02	10/29/14	79.71	79.38	4-14	N/A	7.33	0	72.05
MW-03	10/29/14	80.22	79.94	4-14	N/A	7.58	0	72.36
MW-04	10/29/14	77.12	76.78	4-14	N/A	4.33	0	72.45
MW-05	10/29/14	79.30	78.92	4-14	N/A	7.84	0	71.08
MW-06	10/29/14	79.28	78.92	4-14	N/A	8.15	0	70.77
MW-07	10/29/14	79.09	78.74	5-15	N/A	6.61	0	72.13
MW-08	10/29/14	80.15	79.90	5-15	N/A	7.09	0	72.81
MW-09A	10/29/14	80.54	80.30	4-14	N/A	7.23	0	73.07
Enhanced Fluid Recovery Event 16, October 29, 2014 – After Recovery								
RW-01	10/29/14	79.43	79.25	5.2-15.2	N/A	8.47	0	70.78
RW-02	10/29/14	79.55	79.22	5.1-15.1	N/A	8.59	0	70.63
RW-03	10/29/14	79.23	79.09	5.12-15.12	N/A	8.59	0	70.50
RW-04	10/29/14	79.35	78.98	5.81-15.81	N/A	14.32	0	64.66
RW-05	10/29/14	79.54	79.19	5.12-15.12	N/A	13.05	0	66.14
RW-06	10/29/14	77.69	77.59	5-10	N/A	9.94	0	67.65
MW-01	10/29/14	76.57	76.29	4-14	N/A	6.98	0	69.31
MW-02	10/29/14	79.71	79.38	4-14	N/A	7.33	0	72.05
MW-03	10/29/14	80.22	79.94	4-14	N/A	7.58	0	72.36
MW-04	10/29/14	77.12	76.78	4-14	N/A	4.44	0	72.34
MW-05	10/29/14	79.30	78.92	4-14	N/A	8.07	0	70.85

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
MW-06	10/29/14	79.28	78.92	4-14	N/A	8.34	0	70.58
MW-07	10/29/14	79.09	78.74	5-15	N/A	6.61	0	72.13
MW-08	10/29/14	80.15	79.90	5-15	N/A	7.11	0	72.79
MW-09A	10/29/14	80.54	80.30	4-14	N/A	7.25	0	73.05
Enhanced Fluid Recovery Event 17, October 30, 2014 – Before Injection								
RW-01	10/30/14	79.43	79.25	5.2-15.2	N/A	8.08	0	71.17
RW-02	10/30/14	79.55	79.22	5.1-15.1	N/A	8.38	0	70.84
RW-03	10/30/14	79.23	79.09	5.12-15.12	N/A	8.26	0	70.83
RW-04	10/30/14	79.35	78.98	5.81-15.81	N/A	8.03	0	70.95
RW-05	10/30/14	79.54	79.19	5.12-15.12	N/A	8.13	0	71.06
RW-06	10/30/14	77.69	77.59	5-10	N/A	5.83	0	71.76
MW-01	10/30/14	76.57	76.29	4-14	N/A	6.99	0	69.30
MW-02	10/30/14	79.71	79.38	4-14	N/A	7.29	0	72.09
MW-03	10/30/14	80.22	79.94	4-14	N/A	7.52	0	72.42
MW-04	10/30/14	77.12	76.78	4-14	N/A	4.34	0	72.44
MW-05	10/30/14	79.30	78.92	4-14	N/A	7.84	0	71.08
MW-06	10/30/14	79.28	78.92	4-14	N/A	8.14	0	70.78
MW-07	10/30/14	79.09	78.74	5-15	N/A	6.59	0	72.25
MW-08	10/30/14	80.15	79.90	5-15	N/A	7.09	0	72.81
MW-09A	10/30/14	80.54	80.30	4-14	N/A	7.24	0	73.06
Enhanced Fluid Recovery Event 17, October 30, 2014 – After Injection								
RW-01	10/30/14	79.43	79.25	5.2-15.2	N/A	7.84	0	71.41
RW-02	10/30/14	79.55	79.22	5.1-15.1	N/A	8.31	0	70.91
RW-03	10/30/14	79.23	79.09	5.12-15.12	N/A	8.14	0	70.95
RW-04	10/30/14	79.35	78.98	5.81-15.81	N/A	4.34	0	74.64
RW-05	10/30/14	79.54	79.19	5.12-15.12	N/A	5.79	0	73.40
RW-06	10/30/14	77.69	77.59	5-10	N/A	3.44	0	74.15
MW-01	10/30/14	76.57	76.29	4-14	N/A	6.94	0	69.35
MW-02	10/30/14	79.71	79.38	4-14	N/A	7.29	0	72.09
MW-03	10/30/14	80.22	79.94	4-14	N/A	7.49	0	72.45
MW-04	10/30/14	77.12	76.78	4-14	N/A	4.24	0	72.54
MW-05	10/30/14	79.30	78.92	4-14	N/A	7.77	0	71.15
MW-06	10/30/14	79.28	78.92	4-14	N/A	8.11	0	70.81
MW-07	10/30/14	79.09	78.74	5-15	N/A	6.58	0	72.16
MW-08	10/30/14	80.15	79.90	5-15	N/A	7.09	0	72.81

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
MW-09A	10/30/14	80.54	80.30	4-14	N/A	7.25	0	73.05
Enhanced Fluid Recovery Event 18, November 1, 2014 – Before Injection								
RW-01	11/1/14	79.43	79.25	5.2-15.2	N/A	7.99	0	71.26
RW-02	11/1/14	79.55	79.22	5.1-15.1	N/A	8.35	0	70.87
RW-03	11/1/14	79.23	79.09	5.12-15.12	N/A	8.23	0	70.86
RW-04	11/1/14	79.35	78.98	5.81-15.81	N/A	7.43	0	71.55
RW-05	11/1/14	79.54	79.19	5.12-15.12	N/A	7.89	0	71.30
RW-06	11/1/14	77.69	77.59	5-10	N/A	5.35	0	72.24
MW-01	11/1/14	76.57	76.29	4-14	N/A	6.94	0	69.35
MW-02	11/1/14	79.71	79.38	4-14	N/A	7.33	0	72.05
MW-03	11/1/14	80.22	79.94	4-14	N/A	7.52	0	72.40
MW-04	11/1/14	77.12	76.78	4-14	N/A	4.21	0	72.57
MW-05	11/1/14	79.30	78.92	4-14	N/A	7.82	0	71.10
MW-06	11/1/14	79.28	78.92	4-14	N/A	8.13	0	70.79
MW-07	11/1/14	79.09	78.74	5-15	N/A	6.59	0	72.15
MW-08	11/1/14	80.15	79.90	5-15	N/A	7.12	0	72.78
MW-09A	11/1/14	80.54	80.30	4-14	N/A	7.27	0	73.03
Enhanced Fluid Recovery Event 18, November1, 2014 – After Injection								
RW-01	11/1/14	79.43	79.25	5.2-15.2	N/A	8.19	0	71.06
RW-02	11/1/14	79.55	79.22	5.1-15.1	N/A	8.43	0	70.79
RW-03	11/1/14	79.23	79.09	5.12-15.12	N/A	8.33	0	70.76
RW-04	11/1/14	79.35	78.98	5.81-15.81	N/A	2.87	0	76.11
RW-05	11/1/14	79.54	79.19	5.12-15.12	N/A	14.76	0	64.43
RW-06	11/1/14	77.69	77.59	5-10	N/A	2.36	0	75.23
MW-01	11/1/14	76.57	76.29	4-14	N/A	6.95	0	69.34
MW-02	11/1/14	79.71	79.38	4-14	N/A	7.35	0	72.03
MW-03	11/1/14	80.22	79.94	4-14	N/A	7.59	0	72.35
MW-04	11/1/14	77.12	76.78	4-14	N/A	4.21	0	72.57
MW-05	11/1/14	79.30	78.92	4-14	N/A	7.88	0	71.04
MW-06	11/1/14	79.28	78.92	4-14	N/A	8.19	0	70.73
MW-07	11/1/14	79.09	78.74	5-15	N/A	6.62	0	72.12
MW-08	11/1/14	80.15	79.90	5-15	N/A	7.16	0	72.74
MW-09A	11/1/14	80.54	80.30	4-14	N/A	7.31	0	72.99
Enhanced Fluid Recovery Event 19, November 2, 2014 – Before Recovery								
RW-01	11/2/14	79.43	79.25	5.2-15.2	N/A	8.08	0	71.17

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
RW-02	11/2/14	79.55	79.22	5.1-15.1	N/A	8.38	0	70.84
RW-03	11/2/14	79.23	79.09	5.12-15.12	N/A	8.26	0	70.83
RW-04	11/2/14	79.35	78.98	5.81-15.81	N/A	4.74	0	74.24
RW-05	11/2/14	79.54	79.19	5.12-15.12	N/A	8.21	0	70.98
RW-06	11/2/14	77.69	77.59	5-10	N/A	5.26	0	72.33
MW-01	11/2/14	76.57	76.29	4-14	N/A	6.98	0	69.31
MW-02	11/2/14	79.71	79.38	4-14	N/A	7.36	0	72.02
MW-03	11/2/14	80.22	79.94	4-14	N/A	7.56	0	72.38
MW-04	11/2/14	77.12	76.78	4-14	N/A	4.21	0	72.57
MW-05	11/2/14	79.30	78.92	4-14	N/A	7.85	0	71.07
MW-06	11/2/14	79.28	78.92	4-14	N/A	8.15	0	70.77
MW-07	11/2/14	79.09	78.74	5-15	N/A	6.61	0	72.13
MW-08	11/2/14	80.15	79.90	5-15	N/A	7.16	0	72.74
MW-09A	11/2/14	80.54	80.30	4-14	N/A	7.29	0	73.01
Enhanced Fluid Recovery Event 19, November 2, 2014 –After Recovery								
RW-01	11/2/14	79.43	79.25	5.2-15.2	N/A	8.29	0	70.96
RW-02	11/2/14	79.55	79.22	5.1-15.1	N/A	8.49	0	70.73
RW-03	11/2/14	79.23	79.09	5.12-15.12	N/A	8.42	0	70.67
RW-04	11/2/14	79.35	78.98	5.81-15.81	N/A	14.74	0	64.24
RW-05	11/2/14	79.54	79.19	5.12-15.12	N/A	14.86	0	64.33
RW-06	11/2/14	77.69	77.59	5-10	N/A	9.46	0	68.13
MW-01	11/2/14	76.57	76.29	4-14	N/A	6.96	0	69.33
MW-02	11/2/14	79.71	79.38	4-14	N/A	7.39	0	71.99
MW-03	11/2/14	80.22	79.94	4-14	N/A	7.61	0	72.33
MW-04	11/2/14	77.12	76.78	4-14	N/A	4.33	0	72.45
MW-05	11/2/14	79.30	78.92	4-14	N/A	7.98	0	70.94
MW-06	11/2/14	79.28	78.92	4-14	N/A	8.26	0	70.66
MW-07	11/2/14	79.09	78.74	5-15	N/A	6.65	0	72.09
MW-08	11/2/14	80.15	79.90	5-15	N/A	7.19	0	72.71
MW-09A	11/2/14	80.54	80.30	4-14	N/A	7.34	0	72.96
Enhanced Fluid Recovery Event 20, November 3, 2014 – Before Recovery								
RW-01	11/3/14	79.43	79.25	5.2-15.2	N/A	8.21	0	71.04
RW-02	11/3/14	79.55	79.22	5.1-15.1	N/A	8.42	0	70.80
RW-03	11/3/14	79.23	79.09	5.12-15.12	N/A	8.29	0	70.80
RW-04	11/3/14	79.35	78.98	5.81-15.81	N/A	8.03	0	70.95

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
RW-05	11/3/14	79.54	79.19	5.12-15.12	N/A	8.24	0	70.95
RW-06	11/3/14	77.69	77.59	5-10	N/A	5.95	0	71.64
MW-01	11/3/14	76.57	76.29	4-14	N/A	7.01	0	69.28
MW-02	11/3/14	79.71	79.38	4-14	N/A	7.39	0	71.99
MW-03	11/3/14	80.22	79.94	4-14	N/A	7.59	0	72.35
MW-04	11/3/14	77.12	76.78	4-14	N/A	4.23	0	72.55
MW-05	11/3/14	79.30	78.92	4-14	N/A	7.88	0	71.04
MW-06	11/3/14	79.28	78.92	4-14	N/A	8.19	0	70.73
MW-07	11/3/14	79.09	78.74	5-15	N/A	6.65	0	72.09
MW-08	11/3/14	80.15	79.90	5-15	N/A	7.14	0	72.76
MW-09A	11/3/14	80.54	80.30	4-14	N/A	7.34	0	72.96
Enhanced Fluid Recovery Event 20, November 3, 2014 – After Recovery								
RW-01	11/3/14	79.43	79.25	5.2-15.2	N/A	8.31	0	70.94
RW-02	11/3/14	79.55	79.22	5.1-15.1	N/A	8.51	0	70.71
RW-03	11/3/14	79.23	79.09	5.12-15.12	N/A	8.43	0	70.66
RW-04	11/3/14	79.35	78.98	5.81-15.81	N/A	14.65	0	64.33
RW-05	11/3/14	79.54	79.19	5.12-15.12	N/A	14.58	0	64.61
RW-06	11/3/14	77.69	77.59	5-10	N/A	9.72	0	67.87
MW-01	11/3/14	76.57	76.29	4-14	N/A	6.98	0	69.31
MW-02	11/3/14	79.71	79.38	4-14	N/A	7.42	0	71.96
MW-03	11/3/14	80.22	79.94	4-14	N/A	7.61	0	72.33
MW-04	11/3/14	77.12	76.78	4-14	N/A	4.29	0	72.49
MW-05	11/3/14	79.30	78.92	4-14	N/A	7.98	0	70.94
MW-06	11/3/14	79.28	78.92	4-14	N/A	8.26	0	70.66
MW-07	11/3/14	79.09	78.74	5-15	N/A	6.65	0	72.09
MW-08	11/3/14	80.15	79.90	5-15	N/A	7.21	0	72.69
MW-09A	11/3/14	80.54	80.30	4-14	N/A	7.35	0	72.95
Enhanced Fluid Recovery Event 21, November 4, 2014 – Before Recovery								
RW-01	11/4/14	79.43	79.25	5.2-15.2	N/A	8.14	0	71.11
RW-02	11/4/14	79.55	79.22	5.1-15.1	N/A	8.45	0	70.77
RW-03	11/4/14	79.23	79.09	5.12-15.12	N/A	8.31	0	70.78
RW-04	11/4/14	79.35	78.98	5.81-15.81	N/A	8.05	0	70.93
RW-05	11/4/14	79.54	79.19	5.12-15.12	N/A	8.24	0	70.95
RW-06	11/4/14	77.69	77.59	5-10	N/A	5.92	0	71.67
MW-01	11/4/14	76.57	76.29	4-14	N/A	7.04	0	69.25

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
MW-02	11/4/14	79.71	79.38	4-14	N/A	7.38	0	72.00
MW-03	11/4/14	80.22	79.94	4-14	N/A	7.61	0	72.33
MW-04	11/4/14	77.12	76.78	4-14	N/A	4.27	0	72.51
MW-05	11/4/14	79.30	78.92	4-14	N/A	7.89	0	71.03
MW-06	11/4/14	79.28	78.92	4-14	N/A	8.19	0	70.73
MW-07	11/4/14	79.09	78.74	5-15	N/A	6.68	0	72.06
MW-08	11/4/14	80.15	79.90	5-15	N/A	7.21	0	72.69
MW-09A	11/4/14	80.54	80.30	4-14	N/A	7.34	0	72.96
Enhanced Fluid Recovery Event 21, November 4 2014 – After Recovery								
RW-01	11/4/14	79.43	79.25	5.2-15.2	N/A	8.32	0	70.93
RW-02	11/4/14	79.55	79.22	5.1-15.1	N/A	8.52	0	70.70
RW-03	11/4/14	79.23	79.09	5.12-15.12	N/A	8.44	0	70.65
RW-04	11/4/14	79.35	78.98	5.81-15.81	N/A	14.68	0	64.30
RW-05	11/4/14	79.54	79.19	5.12-15.12	N/A	14.44	0	64.75
RW-06	11/4/14	77.69	77.59	5-10	N/A	9.83	0	67.76
MW-01	11/4/14	76.57	76.29	4-14	N/A	6.98	0	69.31
MW-02	11/4/14	79.71	79.38	4-14	N/A	7.42	0	71.96
MW-03	11/4/14	80.22	79.94	4-14	N/A	7.62	0	72.32
MW-04	11/4/14	77.12	76.78	4-14	N/A	4.33	0	72.45
MW-05	11/4/14	79.30	78.92	4-14	N/A	7.99	0	70.93
MW-06	11/4/14	79.28	78.92	4-14	N/A	8.28	0	70.64
MW-07	11/4/14	79.09	78.74	5-15	N/A	6.69	0	72.05
MW-08	11/4/14	80.15	79.90	5-15	N/A	7.21	0	72.69
MW-09A	11/4/14	80.54	80.30	4-14	N/A	7.36	0	72.94
Enhanced Fluid Recovery Event 22, November 5, 2014 – Before Recovery								
RW-01	11/5/14	79.43	79.25	5.2-15.2	N/A	8.17	0	71.08
RW-02	11/5/14	79.55	79.22	5.1-15.1	N/A	8.46	0	70.76
RW-03	11/5/14	79.23	79.09	5.12-15.12	N/A	8.31	0	70.78
RW-04	11/5/14	79.35	78.98	5.81-15.81	N/A	8.08	0	70.90
RW-05	11/5/14	79.54	79.19	5.12-15.12	N/A	8.25	0	70.94
RW-06	11/5/14	77.69	77.59	5-10	N/A	5.97	0	71.62
MW-01	11/5/14	76.57	76.29	4-14	N/A	7.06	0	69.23
MW-02	11/5/14	79.71	79.38	4-14	N/A	7.39	0	71.99
MW-03	11/5/14	80.22	79.94	4-14	N/A	7.62	0	72.32
MW-04	11/5/14	77.12	76.78	4-14	N/A	4.32	0	72.46

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
MW-05	11/5/14	79.30	78.92	4-14	N/A	7.91	0	71.01
MW-06	11/5/14	79.28	78.92	4-14	N/A	8.19	0	70.73
MW-07	11/5/14	79.09	78.74	5-15	N/A	6.69	0	72.05
MW-08	11/5/14	80.15	79.90	5-15	N/A	7.22	0	72.68
MW-09A	11/5/14	80.54	80.30	4-14	N/A	7.36	0	72.94
Enhanced Fluid Recovery Event 22, November 5, 2014 – After Recovery								
RW-01	11/5/14	79.43	79.25	5.2-15.2	N/A	8.34	0	70.91
RW-02	11/5/14	79.55	79.22	5.1-15.1	N/A	8.53	0	70.69
RW-03	11/5/14	79.23	79.09	5.12-15.12	N/A	8.45	0	70.64
RW-04	11/5/14	79.35	78.98	5.81-15.81	N/A	14.46	0	64.52
RW-05	11/5/14	79.54	79.19	5.12-15.12	N/A	14.46	0	64.73
RW-06	11/5/14	77.69	77.59	5-10	N/A	9.83	0	67.76
MW-01	11/5/14	76.57	76.29	4-14	N/A	6.99	0	69.30
MW-02	11/5/14	79.71	79.38	4-14	N/A	7.42	0	71.96
MW-03	11/5/14	80.22	79.94	4-14	N/A	7.63	0	72.31
MW-04	11/5/14	77.12	76.78	4-14	N/A	4.32	0	72.46
MW-05	11/5/14	79.30	78.92	4-14	N/A	8.01	0	70.91
MW-06	11/5/14	79.28	78.92	4-14	N/A	8.29	0	70.63
MW-07	11/5/14	79.09	78.74	5-15	N/A	6.69	0	72.05
MW-08	11/5/14	80.15	79.90	5-15	N/A	7.22	0	72.68
MW-09A	11/5/14	80.54	80.30	4-14	N/A	7.36	0	72.94
Enhanced Fluid Recovery Event 23, December 8, 2014 – Before Recovery								
RW-01	12/8/14	79.43	79.25	5.2-15.2	N/A	7.49	0	71.76
RW-02	12/8/14	79.55	79.22	5.1-15.1	N/A	7.76	0	71.46
RW-03	12/8/14	79.23	79.09	5.12-15.12	N/A	7.85	0	71.24
RW-04	12/8/14	79.35	78.98	5.81-15.81	7.47	7.82	0.35	71.45
RW-05	12/8/14	79.54	79.19	5.12-15.12	7.59	7.97	0.38	71.53
RW-06	12/8/14	77.69	77.59	5-10	N/A	5.07	0	72.52
MW-01	12/8/14	76.57	76.29	4-14	N/A	6.31	0	69.98
MW-02	12/8/14	79.71	79.38	4-14	N/A	6.56	0	72.82
MW-03	12/8/14	80.22	79.94	4-14	N/A	6.89	0	73.05
MW-04	12/8/14	77.12	76.78	4-14	N/A	2.89	0	73.89
MW-05	12/8/14	79.30	78.92	4-14	N/A	7.39	0	71.53
MW-06	12/8/14	79.28	78.92	4-14	N/A	7.78	0	71.14
MW-07	12/8/14	79.09	78.74	5-15	N/A	5.89	0	72.85

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
MW-08	12/8/14	80.15	79.90	5-15	N/A	6.14	0	73.76
MW-09A	12/8/14	80.54	80.30	4-14	N/A	6.49	0	73.81
Enhanced Fluid Recovery Event 23, December 8, 2014 – After Recovery								
RW-01	12/8/14	79.43	79.25	5.2-15.2	N/A	7.69	0	71.56
RW-02	12/8/14	79.55	79.22	5.1-15.1	N/A	7.92	0	71.30
RW-03	12/8/14	79.23	79.09	5.12-15.12	N/A	8.13	0	70.96
RW-04	12/8/14	79.35	78.98	5.81-15.81	N/A	13.92	0	65.06
RW-05	12/8/14	79.54	79.19	5.12-15.12	N/A	13.39	0	65.80
RW-06	12/8/14	77.69	77.59	5-10	N/A	9.38	0	68.21
MW-01	12/8/14	76.57	76.29	4-14	N/A	6.32	0	69.97
MW-02	12/8/14	79.71	79.38	4-14	N/A	6.58	0	72.80
MW-03	12/8/14	80.22	79.94	4-14	N/A	6.93	0	73.01
MW-04	12/8/14	77.12	76.78	4-14	N/A	2.93	0	73.85
MW-05	12/8/14	79.30	78.92	4-14	N/A	7.58	0	71.34
MW-06	12/8/14	79.28	78.92	4-14	N/A	7.93	0	70.99
MW-07	12/8/14	79.09	78.74	5-15	N/A	5.93	0	72.81
MW-08	12/8/14	80.15	79.90	5-15	N/A	6.14	0	73.76
MW-09A	12/8/14	80.54	80.30	4-14	N/A	6.53	0	73.77
Enhanced Fluid Recovery Event 24, December 9, 2014 – Before Recovery								
RW-01	12/9/14	79.43	79.25	5.2-15.2	N/A	7.49	0	71.76
RW-02	12/9/14	79.55	79.22	5.1-15.1	N/A	7.79	0	71.43
RW-03	12/9/14	79.23	79.09	5.12-15.12	N/A	7.88	0	71.21
RW-04	12/9/14	79.35	78.98	5.81-15.81	N/A	7.52	0	71.46
RW-05	12/9/14	79.54	79.19	5.12-15.12	N/A	7.63	0	71.56
RW-06	12/9/14	77.69	77.59	5-10	N/A	5.25	0	72.34
MW-01	12/9/14	76.57	76.29	4-14	N/A	6.34	0	69.95
MW-02	12/9/14	79.71	79.38	4-14	Well not accessible for monitoring because of parked vehicle.			
MW-03	12/9/14	80.22	79.94	4-14	N/A	6.92	0	73.02
MW-04	12/9/14	77.12	76.78	4-14	N/A	2.93	0	73.85
MW-05	12/9/14	79.30	78.92	4-14	N/A	7.43	0	71.49
MW-06	12/9/14	79.28	78.92	4-14	N/A	7.79	0	71.13
MW-07	12/9/14	79.09	78.74	5-15	N/A	5.92	0	72.82
MW-08	12/9/14	80.15	79.90	5-15	N/A	6.16	0	73.74
MW-09A	12/9/14	80.54	80.30	4-14	N/A	6.51	0	73.99

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
Enhanced Fluid Recovery Event 24, December 9, 2014 – After Recovery								
RW-01	12/9/14	79.43	79.25	5.2-15.2	N/A	7.74	0	71.51
RW-02	12/9/14	79.55	79.22	5.1-15.1	N/A	7.97	0	71.25
RW-03	12/9/14	79.23	79.09	5.12-15.12	N/A	8.15	0	70.94
RW-04	12/9/14	79.35	78.98	5.81-15.81	N/A	13.84	0	65.14
RW-05	12/9/14	79.54	79.19	5.12-15.12	N/A	12.89	0	66.30
RW-06	12/9/14	77.69	77.59	5-10	N/A	9.03	0	68.56
MW-01	12/9/14	76.57	76.29	4-14	N/A	6.34	0	69.95
MW-02	12/9/14	79.71	79.38	4-14	N/A	6.61	0	72.77
MW-03	12/9/14	80.22	79.94	4-14	N/A	6.98	0	72.96
MW-04	12/9/14	77.12	76.78	4-14	N/A	3.01	0	73.77
MW-05	12/9/14	79.30	78.92	4-14	N/A	7.61	0	71.31
MW-06	12/9/14	79.28	78.92	4-14	N/A	7.95	0	70.97
MW-07	12/9/14	79.09	78.74	5-15	N/A	5.96	0	72.78
MW-08	12/9/14	80.15	79.90	5-15	N/A	6.19	0	73.71
MW-09A	12/9/14	80.54	80.30	4-14	N/A	6.55	0	73.75
Enhanced Fluid Recovery Event 25, December 10, 2014 – Before Injection								
RW-01	12/10/14	79.43	79.25	5.2-15.2	N/A	7.52	0	
RW-02	12/10/14	79.55	79.22	5.1-15.1	N/A	7.84	0	71.38
RW-03	12/10/14	79.23	79.09	5.12-15.12	N/A	7.91	0	71.18
RW-04	12/10/14	79.35	78.98	5.81-15.81	N/A	7.57	0	71.41
RW-05	12/10/14	79.54	79.19	5.12-15.12	N/A	7.66	0	71.53
RW-06	12/10/14	77.69	77.59	5-10	N/A	5.29	0	72.30
MW-01	12/10/14	76.57	76.29	4-14	N/A	6.37	0	69.92
MW-02	12/10/14	79.71	79.38	4-14	N/A	6.61	0	72.77
MW-03	12/10/14	80.22	79.94	4-14	N/A	6.96	0	72.98
MW-04	12/10/14	77.12	76.78	4-14	N/A	3.03	0	73.75
MW-05	12/10/14	79.30	78.92	4-14	N/A	7.44	0	71.48
MW-06	12/10/14	79.28	78.92	4-14	N/A	7.82	0	71.10
MW-07	12/10/14	79.09	78.74	5-15	N/A	5.96	0	72.78
MW-08	12/10/14	80.15	79.90	5-15	N/A	6.19	0	73.71
MW-09A	12/10/14	80.54	80.30	4-14	N/A	6.55	0	73.75
Enhanced Fluid Recovery Event 25, December 10, 2014 – After Injection								
RW-01	12/10/14	79.43	79.25	5.2-15.2	N/A	7.49	0	71.76
RW-02	12/10/14	79.55	79.22	5.1-15.1	N/A	7.79	0	71.43

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
RW-03	12/10/14	79.23	79.09	5.12-15.12	N/A	7.84	0	71.25
RW-04	12/10/14	79.35	78.98	5.81-15.81	N/A	1.22	0	77.76
RW-05	12/10/14	79.54	79.19	5.12-15.12	N/A	2.53	0	76.66
RW-06	12/10/14	77.69	77.59	5-10	N/A	2.12	0	75.47
MW-01	12/10/14	76.57	76.29	4-14	N/A	6.38	0	69.91
MW-02	12/10/14	79.71	79.38	4-14	N/A	6.62	0	72.76
MW-03	12/10/14	80.22	79.94	4-14	N/A	6.97	0	72.97
MW-04	12/10/14	77.12	76.78	4-14	N/A	2.78	0	74.00
MW-05	12/10/14	79.30	78.92	4-14	N/A	7.41	0	71.51
MW-06	12/10/14	79.28	78.92	4-14	N/A	7.78	0	71.14
MW-07	12/10/14	79.09	78.74	5-15	N/A	5.96	0	72.78
MW-08	12/10/14	80.15	79.90	5-15	N/A	6.22	0	73.68
MW-09A	12/10/14	80.54	80.30	4-14	N/A	6.57	0	73.73
Enhanced Fluid Recovery Event 26, December 11, 2014 – Before Injection								
RW-01	12/11/14	79.43	79.25	5.2-15.2	N/A	7.53	0	71.72
RW-02	12/11/14	79.55	79.22	5.1-15.1	N/A	7.85	0	71.37
RW-03	12/11/14	79.23	79.09	5.12-15.12	N/A	7.91	0	71.18
RW-04	12/11/14	79.35	78.98	5.81-15.81	N/A	6.98	0	72.00
RW-05	12/11/14	79.54	79.19	5.12-15.12	N/A	7.35	0	71.84
RW-06	12/11/14	77.69	77.59	5-10	N/A	4.44	0	73.14
MW-01	12/11/14	76.57	76.29	4-14	N/A	6.41	0	69.88
MW-02	12/11/14	79.71	79.38	4-14	N/A	6.63	0	72.75
MW-03	12/11/14	80.22	79.94	4-14	N/A	6.98	0	72.96
MW-04	12/11/14	77.12	76.78	4-14	N/A	2.73	0	74.05
MW-05	12/11/14	79.30	78.92	4-14	N/A	7.44	0	71.48
MW-06	12/11/14	79.28	78.92	4-14	N/A	7.81	0	71.11
MW-07	12/11/14	79.09	78.74	5-15	N/A	5.97	0	72.77
MW-08	12/11/14	80.15	79.90	5-15	N/A	6.23	0	73.67
MW-09A	12/11/14	80.54	80.30	4-14	N/A	6.58	0	73.72
Enhanced Fluid Recovery Event 26, December 11, 2014 – After Injection								
RW-01	12/11/14	79.43	79.25	5.2-15.2	N/A	7.46	0	71.79
RW-02	12/11/14	79.55	79.22	5.1-15.1	N/A	7.83	0	71.39
RW-03	12/11/14	79.23	79.09	5.12-15.12	N/A	7.86	0	71.23
RW-04	12/11/14	79.35	78.98	5.81-15.81	N/A	1.03	0	77.95
RW-05	12/11/14	79.54	79.19	5.12-15.12	N/A	5.73	0	73.46

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
RW-06	12/11/14	77.69	77.59	5-10	N/A	1.12	0	76.47
MW-01	12/11/14	76.57	76.29	4-14	N/A	6.41	0	69.88
MW-02	12/11/14	79.71	79.38	4-14	N/A	6.67	0	72.71
MW-03	12/11/14	80.22	79.94	4-14	N/A	6.99	0	72.95
MW-04	12/11/14	77.12	76.78	4-14	N/A	2.62	0	74.16
MW-05	12/11/14	79.30	78.92	4-14	N/A	7.42	0	71.50
MW-06	12/11/14	79.28	78.92	4-14	N/A	7.82	0	71.10
MW-07	12/11/14	79.09	78.74	5-15	N/A	5.99	0	72.75
MW-08	12/11/14	80.15	79.90	5-15	N/A	6.27	0	73.63
MW-09A	12/11/14	80.54	80.30	4-14	N/A	6.61	0	73.69
Enhanced Fluid Recovery Event 27, December 13, 2014 – Before Recovery								
RW-01	12/13/14	79.43	79.25	5.2-15.2	N/A	7.58	0	71.67
RW-02	12/13/14	79.55	79.22	5.1-15.1	N/A	7.89	0	71.33
RW-03	12/13/14	79.23	79.09	5.12-15.12	N/A	7.94	0	71.15
RW-04	12/13/14	79.35	78.98	5.81-15.81	N/A	7.04	0	71.94
RW-05	12/13/14	79.54	79.19	5.12-15.12	N/A	6.97	0	72.22
RW-06	12/13/14	77.69	77.59	5-10	N/A	4.55	0	73.04
MW-01	12/13/14	76.57	76.29	4-14	N/A	6.47	0	69.82
MW-02	12/13/14	79.71	79.38	4-14	N/A	6.68	0	72.70
MW-03	12/13/14	80.22	79.94	4-14	N/A	7.04	0	72.90
MW-04	12/13/14	77.12	76.78	4-14	N/A	2.69	0	74.09
MW-05	12/13/14	79.30	78.92	4-14	N/A	7.49	0	71.43
MW-06	12/13/14	79.28	78.92	4-14	N/A	7.86	0	71.06
MW-07	12/13/14	79.09	78.74	5-15	N/A	6.02	0	72.72
MW-08	12/13/14	80.15	79.90	5-15	N/A	6.31	0	73.59
MW-09A	12/13/14	80.54	80.30	4-14	N/A	6.64	0	73.66
Enhanced Fluid Recovery Event 27, December 13, 2014 – After Recovery								
RW-01	12/13/14	79.43	79.25	5.2-15.2	N/A	7.78	0	71.47
RW-02	12/13/14	79.55	79.22	5.1-15.1	N/A	7.99	0	71.23
RW-03	12/13/14	79.23	79.09	5.12-15.12	N/A	8.11	0	70.98
RW-04	12/13/14	79.35	78.98	5.81-15.81	N/A	14.68	0	64.30
RW-05	12/13/14	79.54	79.19	5.12-15.12	N/A	14.36	0	64.83
RW-06	12/13/14	77.69	77.59	5-10	N/A	8.98	0	68.61
MW-01	12/13/14	76.57	76.29	4-14	N/A	6.47	0	69.82
MW-02	12/13/14	79.71	79.38	4-14	N/A	6.72	0	72.66

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
MW-03	12/13/14	80.22	79.94	4-14	N/A	7.06	0	72.88
MW-04	12/13/14	77.12	76.78	4-14	N/A	1.53	0	75.25
MW-05	12/13/14	79.30	78.92	4-14	N/A	7.58	0	71.34
MW-06	12/13/14	79.28	78.92	4-14	N/A	7.93	0	70.99
MW-07	12/13/14	79.09	78.74	5-15	N/A	6.04	0	72.70
MW-08	12/13/14	80.15	79.90	5-15	N/A	6.33	0	73.57
MW-09A	12/13/14	80.54	80.30	4-14	N/A	6.65	0	73.65
Enhanced Fluid Recovery Event 28, December 14, 2014 – Before Recovery								
RW-01	12/14/14	79.43	79.25	5.2-15.2	N/A	7.65	0	71.60
RW-02	12/14/14	79.55	79.22	5.1-15.1	N/A	7.96	0	71.26
RW-03	12/14/14	79.23	79.09	5.12-15.12	N/A	8.01	0	71.08
RW-04	12/14/14	79.35	78.98	5.81-15.81	N/A	7.49	0	71.49
RW-05	12/14/14	79.54	79.19	5.12-15.12	N/A	7.62	0	71.57
RW-06	12/14/14	77.69	77.59	5-10	N/A	4.61	0	72.98
MW-01	12/14/14	76.57	76.29	4-14	N/A	6.51	0	69.78
MW-02	12/14/14	79.71	79.38	4-14	N/A	6.69	0	72.69
MW-03	12/14/14	80.22	79.94	4-14	N/A	7.05	0	72.89
MW-04	12/14/14	77.12	76.78	4-14	N/A	1.73	0	75.05
MW-05	12/14/14	79.30	78.92	4-14	N/A	7.54	0	71.38
MW-06	12/14/14	79.28	78.92	4-14	N/A	7.92	0	71.00
MW-07	12/14/14	79.09	78.74	5-15	N/A	6.06	0	72.68
MW-08	12/14/14	80.15	79.90	5-15	N/A	6.34	0	73.56
MW-09A	12/14/14	80.54	80.30	4-14	N/A	6.65	0	73.65
Enhanced Fluid Recovery Event 28, December 14, 2014 – After Recovery								
RW-01	12/14/14	79.43	79.25	5.2-15.2	N/A	7.77	0	71.48
RW-02	12/14/14	79.55	79.22	5.1-15.1	N/A	8.02	0	71.20
RW-03	12/14/14	79.23	79.09	5.12-15.12	N/A	8.13	0	70.96
RW-04	12/14/14	79.35	78.98	5.81-15.81	N/A	14.51	0	64.47
RW-05	12/14/14	79.54	79.19	5.12-15.12	N/A	14.23	0	64.96
RW-06	12/14/14	77.69	77.59	5-10	N/A	9.43	0	68.16
MW-01	12/14/14	76.57	76.29	4-14	N/A	6.49	0	69.80
MW-02	12/14/14	79.71	79.38	4-14	N/A	6.74	0	72.64
MW-03	12/14/14	80.22	79.94	4-14	N/A	7.09	0	72.85
MW-04	12/14/14	77.12	76.78	4-14	N/A	1.82	0	74.96
MW-05	12/14/14	79.30	78.92	4-14	N/A	7.63	0	71.29

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
MW-06	12/14/14	79.28	78.92	4-14	N/A	7.97	0	70.95
MW-07	12/14/14	79.09	78.74	5-15	N/A	6.08	0	72.66
MW-08	12/14/14	80.15	79.90	5-15	N/A	6.37	0	73.53
MW-09A	12/14/14	80.54	80.30	4-14	N/A	6.69	0	73.61
Enhanced Fluid Recovery Event 29, December 15, 2014 – Before Recovery								
RW-01	12/15/14	79.43	79.25	5.2-15.2	N/A	7.65	0	71.60
RW-02	12/15/14	79.55	79.22	5.1-15.1	N/A	7.96	0	71.26
RW-03	12/15/14	79.23	79.09	5.12-15.12	N/A	7.98	0	71.11
RW-04	12/15/14	79.35	78.98	5.81-15.81	N/A	7.41	0	71.57
RW-05	12/15/14	79.54	79.19	5.12-15.12	N/A	7.69	0	71.50
RW-06	12/15/14	77.69	77.59	5-10	N/A	4.98	0	72.61
MW-01	12/15/14	76.57	76.29	4-14	N/A	6.53	0	69.76
MW-02	12/15/14	79.71	79.38	4-14	N/A	6.73	0	72.66
MW-03	12/15/14	80.22	79.94	4-14	N/A	7.09	0	72.85
MW-04	12/15/14	77.12	76.78	4-14	N/A	1.91	0	74.87
MW-05	12/15/14	79.30	78.92	4-14	N/A	7.53	0	71.39
MW-06	12/15/14	79.28	78.92	4-14	N/A	7.91	0	71.01
MW-07	12/15/14	79.09	78.74	5-15	N/A	6.08	0	72.66
MW-08	12/15/14	80.15	79.90	5-15	N/A	6.39	0	73.51
MW-09A	12/15/14	80.54	80.30	4-14	N/A	6.69	0	73.61
Enhanced Fluid Recovery Event 29, December 15, 2014 – After Recovery								
RW-01	12/15/14	79.43	79.25	5.2-15.2	N/A	7.85	0	71.40
RW-02	12/15/14	79.55	79.22	5.1-15.1	N/A	8.06	0	71.16
RW-03	12/15/14	79.23	79.09	5.12-15.12	N/A	8.19	0	70.90
RW-04	12/15/14	79.35	78.98	5.81-15.81	N/A	14.69	0	64.29
RW-05	12/15/14	79.54	79.19	5.12-15.12	N/A	14.13	0	65.06
RW-06	12/15/14	77.69	77.59	5-10	N/A	9.19	0	68.40
MW-01	12/15/14	76.57	76.29	4-14	N/A	6.51	0	69.78
MW-02	12/15/14	79.71	79.38	4-14	N/A	6.78	0	72.60
MW-03	12/15/14	80.22	79.94	4-14	N/A	7.12	0	72.82
MW-04	12/15/14	77.12	76.78	4-14	N/A	1.97	0	74.81
MW-05	12/15/14	79.30	78.92	4-14	N/A	7.67	0	71.25
MW-06	12/15/14	79.28	78.92	4-14	N/A	8.03	0	70.89
MW-07	12/15/14	79.09	78.74	5-15	N/A	6.11	0	72.63
MW-08	12/15/14	80.15	79.90	5-15	N/A	6.41	0	73.49

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
MW-09A	12/15/14	80.54	80.30	4-14	N/A	6.72	0	73.58
Enhanced Fluid Recovery Event 30, December 16, 2014 – Before Recovery								
RW-01	12/16/14	79.43	79.25	5.2-15.2	N/A	7.65	0	71.60
RW-02	12/16/14	79.55	79.22	5.1-15.1	N/A	7.96	0	71.26
RW-03	12/16/14	79.23	79.09	5.12-15.12	N/A	7.98	0	71.11
RW-04	12/16/14	79.35	78.98	5.81-15.81	N/A	7.34	0	71.64
RW-05	12/16/14	79.54	79.19	5.12-15.12	N/A	7.65	0	71.54
RW-06	12/16/14	77.69	77.59	5-10	N/A	5.01	0	72.58
MW-01	12/16/14	76.57	76.29	4-14	N/A	6.52	0	69.77
MW-02	12/16/14	79.71	79.38	4-14	N/A	6.76	0	72.62
MW-03	12/16/14	80.22	79.94	4-14	N/A	7.09	0	72.85
MW-04	12/16/14	77.12	76.78	4-14	N/A	2.03	0	74.75
MW-05	12/16/14	79.30	78.92	4-14	N/A	7.53	0	71.39
MW-06	12/16/14	79.28	78.92	4-14	N/A	7.89	0	71.03
MW-07	12/16/14	79.09	78.74	5-15	N/A	6.09	0	72.65
MW-08	12/16/14	80.15	79.90	5-15	N/A	6.41	0	73.49
MW-09A	12/16/14	80.54	80.30	4-14	N/A	6.69	0	73.61
Enhanced Fluid Recovery Event 30, December 16, 2014 – After Recovery								
RW-01	12/16/14	79.43	79.25	5.2-15.2	N/A	7.89	0	71.36
RW-02	12/16/14	79.55	79.22	5.1-15.1	N/A	8.09	0	71.13
RW-03	12/16/14	79.23	79.09	5.12-15.12	N/A	8.23	0	70.86
RW-04	12/16/14	79.35	78.98	5.81-15.81	N/A	14.68	0	64.30
RW-05	12/16/14	79.54	79.19	5.12-15.12	N/A	14.21	0	64.98
RW-06	12/16/14	77.69	77.59	5-10	N/A	9.09	0	68.50
MW-01	12/16/14	76.57	76.29	4-14	N/A	6.53	0	69.76
MW-02	12/16/14	79.71	79.38	4-14	N/A	6.79	0	72.59
MW-03	12/16/14	80.22	79.94	4-14	N/A	7.14	0	72.80
MW-04	12/16/14	77.12	76.78	4-14	N/A	2.08	0	74.70
MW-05	12/16/14	79.30	78.92	4-14	N/A	7.69	0	71.23
MW-06	12/16/14	79.28	78.92	4-14	N/A	8.04	0	70.88
MW-07	12/16/14	79.09	78.74	5-15	N/A	6.14	0	72.60
MW-08	12/16/14	80.15	79.90	5-15	N/A	6.43	0	73.47
MW-09A	12/16/14	80.54	80.30	4-14	N/A	6.74	0	73.56
Enhanced Fluid Recovery Event 31, December 17, 2014 – Before Recovery								
RW-01	12/17/14	79.43	79.25	5.2-15.2	N/A	7.69	0	71.56

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
RW-02	12/17/14	79.55	79.22	5.1-15.1	N/A	7.98	0	71.24
RW-03	12/17/14	79.23	79.09	5.12-15.12	N/A	8.01	0	71.08
RW-04	12/17/14	79.35	78.98	5.81-15.81	N/A	7.28	0	71.70
RW-05	12/17/14	79.54	79.19	5.12-15.12	N/A	7.64	0	71.55
RW-06	12/17/14	77.69	77.59	5-10	N/A	5.14	0	72.45
MW-01	12/17/14	76.57	76.29	4-14	N/A	6.53	0	69.76
MW-02	12/17/14	79.71	79.38	4-14	N/A	6.79	0	72.59
MW-03	12/17/14	80.22	79.94	4-14	N/A	7.11	0	72.83
MW-04	12/17/14	77.12	76.78	4-14	N/A	2.13	0	74.65
MW-05	12/17/14	79.30	78.92	4-14	N/A	7.54	0	71.38
MW-06	12/17/14	79.28	78.92	4-14	N/A	7.91	0	71.01
MW-07	12/17/14	79.09	78.74	5-15	N/A	6.12	0	72.62
MW-08	12/17/14	80.15	79.90	5-15	N/A	6.43	0	73.47
MW-09A	12/17/14	80.54	80.30	4-14	N/A	6.73	0	73.57
Enhanced Fluid Recovery Event 31, December 17, 2014 – After Recovery								
RW-01	12/17/14	79.43	79.25	5.2-15.2	N/A	7.92	0	71.33
RW-02	12/17/14	79.55	79.22	5.1-15.1	N/A	8.11	0	71.11
RW-03	12/17/14	79.23	79.09	5.12-15.12	N/A	8.23	0	70.86
RW-04	12/17/14	79.35	78.98	5.81-15.81	N/A	14.68	0	64.30
RW-05	12/17/14	79.54	79.19	5.12-15.12	N/A	13.69	0	65.50
RW-06	12/17/14	77.69	77.59	5-10	N/A	9.34	0	68.25
MW-01	12/17/14	76.57	76.29	4-14	N/A	6.55	0	69.74
MW-02	12/17/14	79.71	79.38	4-14	N/A	6.82	0	72.56
MW-03	12/17/14	80.22	79.94	4-14	N/A	7.17	0	72.77
MW-04	12/17/14	77.12	76.78	4-14	N/A	2.19	0	74.59
MW-05	12/17/14	79.30	78.92	4-14	N/A	7.73	0	71.19
MW-06	12/17/14	79.28	78.92	4-14	N/A	8.06	0	70.86
MW-07	12/17/14	79.09	78.74	5-15	N/A	6.15	0	72.59
MW-08	12/17/14	80.15	79.90	5-15	N/A	6.45	0	73.45
MW-09A	12/17/14	80.54	80.30	4-14	N/A	6.77	0	73.53
Groundwater Monitoring January 7, 2015								
RW-01	1/7/15	79.43	79.25	5.2-15.2	N/A	7.4	0	71.85
RW-02	1/7/15	79.55	79.22	5.1-15.1	N/A	Not checked		
RW-03	1/7/15	79.23	79.09	5.12-15.12	N/A	Not checked		

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
RW-04	1/7/15	79.35	78.98	5.81-15.81	N/A	7.39	0	71.59
RW-05	1/7/15	79.54	79.19	5.12-15.12	N/A	7.46	0	71.73
RW-06	1/7/15	77.69	77.59	5-10	N/A	4.85	0	72.74
MW-01	1/7/15	76.57	76.29	4-14	N/A	Not checked		
MW-02	1/7/15	79.71	79.38	4-14	Well not accessible for monitoring because of parked vehicle.			
MW-03	1/7/15	80.22	79.94	4-14	N/A	6.83	0	73.11
MW-04	1/7/15	77.12	76.78	4-14	N/A	2.43	0	74.35
MW-05	1/7/15	79.30	78.92	4-14	N/A	7.35	0	71.57
MW-06	1/7/15	79.28	78.92	4-14	N/A	7.76	0	71.16
MW-07	1/7/15	79.09	78.74	5-15	N/A	5.78	0	72.96
MW-08	1/7/15	80.15	79.90	5-15	N/A	5.95	0	73.95
MW-09A	1/7/15	80.54	80.30	4-14	N/A	6.35	0	73.95
Groundwater Monitoring January 28, 2015								
RW-01	1/28/15	79.43	79.25	5.2-15.2	N/A	7.15	0	72.10
RW-02	1/28/15	79.55	79.22	5.1-15.1	N/A	7.49	0	71.73
RW-03	1/28/15	79.23	79.09	5.12-15.12	N/A	7.67	0	71.42
RW-04	1/28/15	79.35	78.98	5.81-15.81	N/A	7.17	0	71.81
RW-05	1/28/15	79.54	79.19	5.12-15.12	N/A	7.22	0	71.97
RW-06	1/28/15	77.69	77.59	5-10	N/A	4.76	0	72.83
MW-01	1/28/15	76.57	76.29	4-14	N/A	6.03	0	70.26
MW-02	1/28/15	79.71	79.38	4-14	Well not accessible for monitoring because of parked vehicle.			
MW-03	1/28/15	80.22	79.94	4-14	N/A	6.67	0	73.27
MW-04	1/28/15	77.12	76.78	4-14	N/A	2.49	0	74.29
MW-05	1/28/15	79.30	78.92	4-14	N/A	7.21	0	71.71
MW-06	1/28/15	79.28	78.92	4-14	N/A	7.62	0	71.30
MW-07	1/28/15	79.09	78.74	5-15	N/A	5.62	0	73.12
MW-08	1/28/15	80.15	79.90	5-15	N/A	5.78	0	74.12
MW-09A	1/28/15	80.54	80.30	4-14	N/A	6.12	0	74.18
Groundwater Monitoring February 24, 2015								
RW-01	2/24/15	79.43	79.25	5.2-15.2	N/A	7.33	0	71.92
RW-02	2/24/15	79.55	79.22	5.1-15.1	N/A	7.52	0	71.70
RW-03	2/24/15	79.23	79.09	5.12-15.12	N/A	7.74	0	71.35
RW-04	2/24/15	79.35	78.98	5.81-15.81	N/A	7.37	0	71.61

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
RW-05	2/24/15	79.54	79.19	5.12-15.12	7.48	7.56	0.08	71.56
RW-06	2/24/15	77.69	77.59	5-10	N/A	4.95	0	72.64
MW-01	2/24/15	76.57	76.29	4-14	N/A	6.16	0	70.13
MW-02	2/24/15	79.71	79.38	4-14	N/A	6.39	0	72.99
MW-03	2/24/15	80.22	79.94	4-14	N/A	6.83	0	73.11
MW-04	2/24/15	77.12	76.78	4-14	N/A	2.69	0	74.09
MW-05	2/24/15	79.30	78.92	4-14	N/A	7.31	0	71.61
MW-06	2/24/15	79.28	78.92	4-14	N/A	7.71	0	71.21
MW-07	2/24/15	79.09	78.74	5-15	N/A	5.79	0	72.95
MW-08	2/24/15	80.15	79.90	5-15	N/A	6.02	0	73.88
MW-09A	2/24/15	80.54	80.30	4-14	N/A	6.31	0	73.99

Prepared by: Chris Napoleon, PG Date: March 2, 2015
Reviewed by: Jody Barker, PG Date: March 2, 2015

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
Groundwater Monitoring Event September 13-16, 2016								
RW-01	9/13/16	79.43	79.25	5.2-15.2	N/A	7.30	0	71.95
RW-02	9/13/16	79.55	79.22	5.1-15.1	N/A	7.60	0	71.62
RW-03	9/13/16	79.23	79.09	5.12-15.12	N/A	7.50	0	71.59
RW-04	9/13/16	79.35	78.98	5.81-15.81	7.01	8.20	1.19	70.78
RW-05	9/13/16	79.54	79.19	5.12-15.12	7.08	8.14	1.06	71.05
RW-06	9/13/16	77.69	77.59	5-10	N/A	4.95	0	72.64
RW-07	9/16/16	79.35	79.26	5.35-15.35	N/A	7.10	0	72.16
RW-08	9/16/16	79.26	78.75	5.55-15.55	N/A	7.10	0	71.65
RW-09	9/16/16	79.31	79.02	5.20-15.25	N/A	7.20	0	71.82
RW-10	9/16/16	79.65	79.28	5.3-15.3	N/A	7.20	0	72.08
RW-11	9/16/16	79.76	79.52	5.3-15.3	N/A	7.05	0	72.47
MW-01	9/13/16	76.57	76.29	4-14	N/A	6.32	0	69.97
MW-02	9/13/16	79.71	79.38	4-14	N/A	6.38	0	73.00
MW-03	9/13/16	80.22	79.94	4-14	N/A	6.70	0	73.24
MW-04	9/13/16	77.12	76.78	4-14	N/A	3.80	0	72.98
MW-05	9/13/16	79.30	78.92	4-14	N/A	7.12	0	71.80
MW-06	9/13/16	79.28	78.92	4-14	N/A	7.45	0	71.47
MW-07	9/13/16	79.09	78.74	5-15	N/A	5.80	0	72.94
MW-08	9/13/16	80.15	79.90	5-15	N/A	5.95	0	73.95
MW-09A	9/13/16	80.54	80.30	4-14	N/A	6.3	0	74.00
Groundwater Monitoring Event April 27, 2017								
RW-01	4/27/17	79.43	79.25	5.2-15.2	N/A	7.91	0	71.34
RW-02	4/27/17	79.55	79.22	5.1-15.1	N/A	8.15	0	71.07
RW-03	4/27/17	79.23	79.09	5.12-15.12	N/A	7.96	0	71.13
RW-04	4/27/17	79.35	78.98	5.81-15.81	7.61	8.37	0.76	70.61
RW-05	4/27/17	79.54	79.19	5.12-15.12	7.65	8.62	0.97	70.57
RW-06	4/27/17	77.69	77.59	5-10	N/A	5.46	0	72.13
RW-07	4/27/17	79.35	79.26	5.35-15.35	7.81	7.82	0.01	71.44
RW-08	4/27/17	79.26	78.75	5.55-15.55	N/A	7.71	0	71.04
RW-09	4/27/17	79.31	79.02	5.20-15.25	7.83	7.90	0.07	71.12
RW-10	4/27/17	79.65	79.28	5.3-15.3	N/A	7.61	0	71.67
RW-11	4/27/17	79.76	79.52	5.3-15.3	N/A	7.60	0	71.92
MW-01	4/27/17	76.57	76.29	4-14	N/A	6.81	0	69.48
MW-02	4/27/17	79.71	79.38	4-14	N/A	7.29	0	72.09

Prepared by: Chris Napoleon, PG Date: November 29, 2017
Reviewed by: Gina Jones Date: November 30, 2017

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
MW-03	4/27/17	80.22	79.94	4-14	N/A	7.4	0	72.54
MW-04	4/27/17	77.12	76.78	4-14	N/A	3.83	0	72.95
MW-05	4/27/17	79.30	78.92	4-14	N/A	7.81	0	71.11
MW-06	4/27/17	79.28	78.92	4-14	N/A	7.87	0	71.05
MW-07	4/27/17	79.09	78.74	5-15	N/A	6.39	0	72.35
MW-08	4/27/17	80.15	79.90	5-15	N/A	6.84	0	73.06
MW-09A	4/27/17	80.54	80.30	4-14	N/A	7.05	0	73.25
Groundwater Monitoring Event May 25, 2017								
RW-01	5/25/17	79.43	79.25	5.2-15.2	7.75	8.01	0.26	71.24
RW-02	5/25/17	79.55	79.22	5.1-15.1	N/A	8.05	0	71.17
RW-03	5/25/17	79.23	79.09	5.12-15.12	N/A	7.95	0	71.14
RW-04	5/25/17	79.35	78.98	5.81-15.81	7.60	8.32	0.72	70.66
RW-05	5/25/17	79.54	79.19	5.12-15.12	7.75	8.71	0.96	70.48
RW-06	5/25/17	77.69	77.59	5-10	5.59	5.87	0.28	71.72
RW-07	5/25/17	79.35	79.26	5.35-15.35	N/A	7.78	0	71.48
RW-08	5/25/17	79.26	78.75	5.55-15.55	N/A	7.61	0	71.14
RW-09	5/25/17	79.31	79.02	5.20-15.25	7.73	7.93	0.20	71.09
RW-10	5/25/17	79.65	79.28	5.3-15.3	N/A	7.81	0	71.47
RW-11	5/25/17	79.76	79.52	5.3-15.3	N/A	7.68	0	71.84
MW-01	5/25/17	76.57	76.29	4-14	N/A	6.55	0	69.74
MW-02	5/25/17	79.71	79.38	4-14	N/A	7.09	0	72.29
MW-03	5/25/17	80.22	79.94	4-14	N/A	7.24	0	72.70
MW-04	5/25/17	77.12	76.78	4-14	N/A	4.22	0	72.56
MW-05	5/25/17	79.30	78.92	4-14	N/A	7.56	0	71.36
MW-06	5/25/17	79.28	78.92	4-14	N/A	7.84	0	71.08
MW-07	5/25/17	79.09	78.74	5-15	N/A	6.38	0	72.36
MW-08	5/25/17	80.15	79.90	5-15	N/A	6.86	0	73.04
MW-09A	5/25/17	80.54	80.30	4-14	N/A	7.09	0	73.21
Enhanced Fluid Recovery Event 32, June 19, 2017 – Before Recovery								
RW-01	6/19/17	79.43	79.25	5.2-15.2	N/A	8.11	0	71.14
RW-02	6/19/17	79.55	79.22	5.1-15.1	N/A	8.34	0	70.88
RW-03	6/19/17	79.23	79.09	5.12-15.12	N/A	8.13	0	70.96
RW-04	6/19/17	79.35	78.98	5.81-15.81	7.81	8.73	0.92	71.00
RW-05	6/19/17	79.54	79.19	5.12-15.12	7.87	8.83	0.96	71.15
RW-06	6/19/17	77.69	77.59	5-10	5.69	6.02	0.33	71.84

Prepared by: Chris Napoleon, PG Date: November 29, 2017
Reviewed by: Gina Jones Date: November 30, 2017

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
RW-07	6/19/17	79.35	79.26	5.35-15.35	8.05	8.11	0.06	71.15
RW-08	6/19/17	79.26	78.75	5.55-15.55	N/A	7.93	0	70.82
RW-09	6/19/17	79.31	79.02	5.20-15.25	7.93	8.20	0.27	71.04
RW-10	6/19/17	79.65	79.28	5.3-15.3	N/A	7.97	0	71.31
RW-11	6/19/17	79.76	79.52	5.3-15.3	N/A	7.83	0	71.69
MW-01	6/19/17	76.57	76.29	4-14	N/A	7.01	0	69.28
MW-02	6/19/17	79.71	79.38	4-14	N/A	7.31	0	72.07
MW-03	6/19/17	80.22	79.94	4-14	N/A	7.55	0	72.39
MW-04	6/19/17	77.12	76.78	4-14	N/A	4.31	0	72.47
MW-05	6/19/17	79.30	78.92	4-14	N/A	7.78	0	71.14
MW-06	6/19/17	79.28	78.92	4-14	N/A	8.03	0	70.89
MW-07	6/19/17	79.09	78.74	5-15	N/A	6.69	0	72.05
MW-08	6/19/17	80.15	79.90	5-15	N/A	7.15	0	72.75
MW-09A	6/19/17	80.54	80.30	4-14	N/A	7.27	0	73.03
Enhanced Fluid Recovery Event 33, June 20, 2017 – Before Recovery								
RW-01	6/20/17	79.43	79.25	5.2-15.2	N/A	8.02	0	71.23
RW-02	6/20/17	79.55	79.22	5.1-15.1	N/A	8.26	0	70.96
RW-03	6/20/17	79.23	79.09	5.12-15.12	N/A	8.05	0	71.04
RW-04	6/20/17	79.35	78.98	5.81-15.81	N/A	7.59	0	71.39
RW-05	6/20/17	79.54	79.19	5.12-15.12	N/A	7.79	0	71.40
RW-06	6/20/17	77.69	77.59	5-10	N/A	5.32	0	72.27
RW-07	6/20/17	79.35	79.26	5.35-15.35	N/A	7.94	0	71.32
RW-08	6/20/17	79.26	78.75	5.55-15.55	N/A	7.84	0	70.91
RW-09	6/20/17	79.31	79.02	5.20-15.25	N/A	7.87	0	71.15
RW-10	6/20/17	79.65	79.28	5.3-15.3	N/A	7.62	0	71.66
RW-11	6/20/17	79.76	79.52	5.3-15.3	N/A	7.76	0	71.76
MW-01	6/20/17	76.57	76.29	4-14	N/A	6.93	0	69.36
MW-02	6/20/17	79.71	79.38	4-14	N/A	7.29	0	72.09
MW-03	6/20/17	80.22	79.94	4-14	N/A	7.49	0	72.45
MW-04	6/20/17	77.12	76.78	4-14	N/A	4.26	0	72.52
MW-05	6/20/17	79.30	78.92	4-14	N/A	7.71	0	71.21
MW-06	6/20/17	79.28	78.92	4-14	N/A	8.01	0	70.91
MW-07	6/20/17	79.09	78.74	5-15	N/A	6.61	0	72.13
MW-08	6/20/17	80.15	79.90	5-15	N/A	7.09	0	72.81
MW-09A	6/20/17	80.54	80.30	4-14	N/A	7.25	0	73.05

Prepared by: Chris Napoleon, PG Date: November 29, 2017
Reviewed by: Gina Jones Date: November 30, 2017

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
Enhanced Fluid Recovery Event 33, June 20, 2017 – After Recovery								
RW-01	6/20/17	79.43	79.25	5.2-15.2	N/A	9.11	0	70.14
RW-02	6/20/17	79.55	79.22	5.1-15.1	N/A	8.82	0	70.40
RW-03	6/20/17	79.23	79.09	5.12-15.12	N/A	8.83	0	70.26
RW-04	6/20/17	79.35	78.98	5.81-15.81	N/A	8.33	0	70.65
RW-05	6/20/17	79.54	79.19	5.12-15.12	N/A	8.29	0	70.90
RW-06	6/20/17	77.69	77.59	5-10	N/A	6.65	0	70.94
RW-07	6/20/17	79.35	79.26	5.35-15.35	N/A	9.08	0	70.18
RW-08	6/20/17	79.26	78.75	5.55-15.55	N/A	8.64	0	70.11
RW-09	6/20/17	79.31	79.02	5.20-15.25	N/A	9.61	0	69.41
RW-10	6/20/17	79.65	79.28	5.3-15.3	N/A	9.84	0	69.44
RW-11	6/20/17	79.76	79.52	5.3-15.3	N/A	9.23	0	70.29
MW-01	6/20/17	76.57	76.29	4-14	N/A	6.92	0	69.37
MW-02	6/20/17	79.71	79.38	4-14	N/A	7.33	0	72.05
MW-03	6/20/17	80.22	79.94	4-14	N/A	7.62	0	72.32
MW-04	6/20/17	77.12	76.78	4-14	N/A	4.43	0	72.35
MW-05	6/20/17	79.30	78.92	4-14	N/A	8.18	0	70.74
MW-06	6/20/17	79.28	78.92	4-14	N/A	8.39	0	70.53
MW-07	6/20/17	79.09	78.74	5-15	N/A	6.63	0	72.11
MW-08	6/20/17	80.15	79.90	5-15	N/A	7.09	0	72.81
MW-09A	6/20/17	80.54	80.30	4-14	N/A	7.25	0	73.05
Enhanced Fluid Recovery Event 34, June 21, 2017 – Before Recovery								
RW-01	6/21/17	79.43	79.25	5.2-15.2	N/A	8.15	0	71.10
RW-02	6/21/17	79.55	79.22	5.1-15.1	N/A	8.28	0	70.94
RW-03	6/21/17	79.23	79.09	5.12-15.12	N/A	8.07	0	71.02
RW-04	6/21/17	79.35	78.98	5.81-15.81	N/A	7.91	0	71.07
RW-05	6/21/17	79.54	79.19	5.12-15.12	N/A	8.05	0	71.14
RW-06	6/21/17	77.69	77.59	5-10	N/A	5.75	0	71.84
RW-07	6/21/17	79.35	79.26	5.35-15.35	N/A	8.08	0	71.18
RW-08	6/21/17	79.26	78.75	5.55-15.55	N/A	7.88	0	70.87
RW-09	6/21/17	79.31	79.02	5.20-15.25	N/A	7.96	0	71.06
RW-10	6/21/17	79.65	79.28	5.3-15.3	N/A	7.94	0	71.34
RW-11	6/21/17	79.76	79.52	5.3-15.3	N/A	7.91	0	71.61
MW-01	6/21/17	76.57	76.29	4-14	N/A	6.94	0	69.35
MW-02	6/21/17	79.71	79.38	4-14	N/A	7.29	0	72.09

Prepared by: Chris Napoleon, PG Date: November 29, 2017
Reviewed by: Gina Jones Date: November 30, 2017

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
MW-03	6/21/17	80.22	79.94	4-14	N/A	7.49	0	72.45
MW-04	6/21/17	77.12	76.78	4-14	N/A	4.26	0	72.52
MW-05	6/21/17	79.30	78.92	4-14	N/A	7.74	0	71.18
MW-06	6/21/17	79.28	78.92	4-14	N/A	8.01	0	70.91
MW-07	6/21/17	79.09	78.74	5-15	N/A	6.59	0	72.15
MW-08	6/21/17	80.15	79.90	5-15	N/A	7.09	0	72.81
MW-09A	6/21/17	80.54	80.30	4-14	N/A	7.24	0	73.06
Enhanced Fluid Recovery Event 34, June 21, 2017 – After Recovery								
RW-01	6/21/17	79.43	79.25	5.2-15.2	N/A	9.51	0	69.74
RW-02	6/21/17	79.55	79.22	5.1-15.1	N/A	8.96	0	70.26
RW-03	6/21/17	79.23	79.09	5.12-15.12	N/A	8.95	0	70.14
RW-04	6/21/17	79.35	78.98	5.81-15.81	N/A	13.89	0	65.09
RW-05	6/21/17	79.54	79.19	5.12-15.12	N/A	14.13	0	65.06
RW-06	6/21/17	77.69	77.59	5-10	N/A	6.53	0	71.06
RW-07	6/21/17	79.35	79.26	5.35-15.35	N/A	10.54	0	68.72
RW-08	6/21/17	79.26	78.75	5.55-15.55	N/A	8.98	0	69.77
RW-09	6/21/17	79.31	79.02	5.20-15.25	N/A	10.02	0	69.00
RW-10	6/21/17	79.65	79.28	5.3-15.3	N/A	9.77	0	69.51
RW-11	6/21/17	79.76	79.52	5.3-15.3	N/A	10.87	0	68.65
MW-01	6/21/17	76.57	76.29	4-14	N/A	6.93	0	69.36
MW-02	6/21/17	79.71	79.38	4-14	N/A	7.32	0	72.06
MW-03	6/21/17	80.22	79.94	4-14	N/A	7.63	0	72.31
MW-04	6/21/17	77.12	76.78	4-14	N/A	4.38	0	72.40
MW-05	6/21/17	79.30	78.92	4-14	N/A	8.23	0	70.69
MW-06	6/21/17	79.28	78.92	4-14	N/A	8.42	0	70.50
MW-07	6/21/17	79.09	78.74	5-15	N/A	6.59	0	72.15
MW-08	6/21/17	80.15	79.90	5-15	N/A	7.10	0	72.80
MW-09A	6/21/17	80.54	80.30	4-14	N/A	7.24	0	73.06
Enhanced Fluid Recovery Event 35, August 7, 2017 – Before Recovery								
RW-01	8/7/17	79.43	79.25	5.2-15.2	N/A	6.76	0	72.49
RW-02	8/7/17	79.55	79.22	5.1-15.1	N/A	7.12	0	72.10
RW-03	8/7/17	79.23	79.09	5.12-15.12	N/A	7.19	0	71.90
RW-04	8/7/17	79.35	78.98	5.81-15.81	6.71	6.73	0.02	72.27
RW-05	8/7/17	79.54	79.19	5.12-15.12	6.84	7.04	0.20	72.31
RW-06	8/7/17	77.69	77.59	5-10	N/A	4.11	0	73.48

Prepared by: Chris Napoleon, PG Date: November 29, 2017
Reviewed by: Gina Jones Date: November 30, 2017

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
RW-07	8/7/17	79.35	79.26	5.35-15.35	6.73	6.82	0.09	72.51
RW-08	8/7/17	79.26	78.75	5.55-15.55	N/A	6.76	0	71.99
RW-09	8/7/17	79.31	79.02	5.20-15.25	6.88	6.91	0.03	72.13
RW-10	8/7/17	79.65	79.28	5.3-15.3	N/A	6.84	0	72.44
RW-11	8/7/17	79.76	79.52	5.3-15.3	N/A	6.63	0	72.89
MW-01	8/7/17	76.57	76.29	4-14	N/A	5.89	0	70.40
MW-02	8/7/17	79.71	79.38	4-14	N/A	5.74	0	73.64
MW-03	8/7/17	80.22	79.94	4-14	N/A	6.21	0	73.73
MW-04	8/7/17	77.12	76.78	4-14	N/A	2.19	0	74.59
MW-05	8/7/17	79.30	78.92	4-14	N/A	6.88	0	72.04
MW-06	8/7/17	79.28	78.92	4-14	N/A	7.29	0	71.63
MW-07	8/7/17	79.09	78.74	5-15	N/A	5.37	0	73.37
MW-08	8/7/17	80.15	79.90	5-15	N/A	5.29	0	74.61
MW-09A	8/7/17	80.54	80.30	4-14	N/A	5.52	0	74.78
Enhanced Fluid Recovery Event 36, August 8, 2017 – Before Recovery								
RW-01	8/8/17	79.43	79.25	5.2-15.2	N/A	6.74	0	72.51
RW-02	8/8/17	79.55	79.22	5.1-15.1	N/A	6.73	0	72.49
RW-03	8/8/17	79.23	79.09	5.12-15.12	N/A	6.68	0	72.41
RW-04	8/8/17	79.35	78.98	5.81-15.81	N/A	6.51	0	72.47
RW-05	8/8/17	79.54	79.19	5.12-15.12	N/A	6.72	0	72.47
RW-06	8/8/17	77.69	77.59	5-10	N/A	4.14	0	73.45
RW-07	8/8/17	79.35	79.26	5.35-15.35	N/A	6.63	0	72.63
RW-08	8/8/17	79.26	78.75	5.55-15.55	N/A	6.64	0	72.11
RW-09	8/8/17	79.31	79.02	5.20-15.25	N/A	6.72	0	72.30
RW-10	8/8/17	79.65	79.28	5.3-15.3	N/A	6.59	0	72.69
RW-11	8/8/17	79.76	79.52	5.3-15.3	N/A	6.56	0	72.96
MW-01	8/8/17	76.57	76.29	4-14	N/A	5.83	0	70.46
MW-02	8/8/17	79.71	79.38	4-14	N/A	5.76	0	73.62
MW-03	8/8/17	80.22	79.94	4-14	N/A	5.92	0	74.02
MW-04	8/8/17	77.12	76.78	4-14	N/A	2.13	0	74.65
MW-05	8/8/17	79.30	78.92	4-14	N/A	6.69	0	72.23
MW-06	8/8/17	79.28	78.92	4-14	N/A	7.01	0	71.91
MW-07	8/8/17	79.09	78.74	5-15	N/A	5.35	0	73.39
MW-08	8/8/17	80.15	79.90	5-15	N/A	5.31	0	74.59
MW-09A	8/8/17	80.54	80.30	4-14	N/A	5.57	0	74.73

Prepared by: Chris Napoleon, PG Date: November 29, 2017
Reviewed by: Gina Jones Date: November 30, 2017

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
Enhanced Fluid Recovery Event 36, August 8, 2017 – After Recovery								
RW-01	8/8/17	79.43	79.25	5.2-15.2	N/A	7.54	0	71.71
RW-02	8/8/17	79.55	79.22	5.1-15.1	N/A	7.52	0	71.70
RW-03	8/8/17	79.23	79.09	5.12-15.12	N/A	7.73	0	71.36
RW-04	8/8/17	79.35	78.98	5.81-15.81	N/A	13.42	0	65.56
RW-05	8/8/17	79.54	79.19	5.12-15.12	N/A	8.31	0	70.88
RW-06	8/8/17	77.69	77.59	5-10	N/A	4.94	0	72.65
RW-07	8/8/17	79.35	79.26	5.35-15.35	N/A	7.86	0	71.40
RW-08	8/8/17	79.26	78.75	5.55-15.55	N/A	7.79	0	70.96
RW-09	8/8/17	79.31	79.02	5.20-15.25	N/A	7.76	0	71.26
RW-10	8/8/17	79.65	79.28	5.3-15.3	N/A	7.92	0	71.36
RW-11	8/8/17	79.76	79.52	5.3-15.3	N/A	8.98	0	70.54
MW-01	8/8/17	76.57	76.29	4-14	N/A	5.68	0	70.61
MW-02	8/8/17	79.71	79.38	4-14	N/A	5.79	0	73.59
MW-03	8/8/17	80.22	79.94	4-14	N/A	6.31	0	73.63
MW-04	8/8/17	77.12	76.78	4-14	N/A	2.17	0	74.61
MW-05	8/8/17	79.30	78.92	4-14	N/A	7.23	0	71.69
MW-06	8/8/17	79.28	78.92	4-14	N/A	7.56	0	71.36
MW-07	8/8/17	79.09	78.74	5-15	N/A	5.39	0	73.35
MW-08	8/8/17	80.15	79.90	5-15	N/A	5.31	0	74.59
MW-09A	8/8/17	80.54	80.30	4-14	N/A	5.61	0	74.69
Enhanced Fluid Recovery Event 37, August 9, 2017 – Before Recovery								
RW-01	8/9/17	79.43	79.25	5.2-15.2	N/A	6.82	0	72.43
RW-02	8/9/17	79.55	79.22	5.1-15.1	N/A	6.98	0	72.24
RW-03	8/9/17	79.23	79.09	5.12-15.12	N/A	7.03	0	72.06
RW-04	8/9/17	79.35	78.98	5.81-15.81	N/A	6.61	0	72.37
RW-05	8/9/17	79.54	79.19	5.12-15.12	N/A	6.87	0	72.32
RW-06	8/9/17	77.69	77.59	5-10	N/A	4.11	0	73.48
RW-07	8/9/17	79.35	79.26	5.35-15.35	N/A	6.73	0	72.53
RW-08	8/9/17	79.26	78.75	5.55-15.55	N/A	6.65	0	72.10
RW-09	8/9/17	79.31	79.02	5.20-15.25	N/A	6.79	0	72.23
RW-10	8/9/17	79.65	79.28	5.3-15.3	N/A	6.86	0	72.42
RW-11	8/9/17	79.76	79.52	5.3-15.3	N/A	6.65	0	72.87
MW-01	8/9/17	76.57	76.29	4-14	N/A	5.67	0	70.62

Prepared by: Chris Napoleon, PG Date: November 29, 2017
Reviewed by: Gina Jones Date: November 30, 2017

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
MW-02	8/9/17	79.71	79.38	4-14	N/A	5.77	0	73.61
MW-03	8/9/17	80.22	79.94	4-14	N/A	6.18	0	73.76
MW-04	8/9/17	77.12	76.78	4-14	N/A	2.21	0	74.57
MW-05	8/9/17	79.30	78.92	4-14	N/A	6.91	0	72.01
MW-06	8/9/17	79.28	78.92	4-14	N/A	7.29	0	71.63
MW-07	8/9/17	79.09	78.74	5-15	N/A	5.38	0	73.36
MW-08	8/9/17	80.15	79.90	5-15	N/A	5.31	0	74.59
MW-09A	8/9/17	80.54	80.30	4-14	N/A	5.63	0	74.67
Enhanced Fluid Recovery Event 37, August 9, 2017 – After Recovery								
RW-01	8/9/17	79.43	79.25	5.2-15.2	N/A	7.83	0	71.42
RW-02	8/9/17	79.55	79.22	5.1-15.1	N/A	7.78	0	71.44
RW-03	8/9/17	79.23	79.09	5.12-15.12	N/A	8.17	0	70.92
RW-04	8/9/17	79.35	78.98	5.81-15.81	N/A	10.92	0	68.06
RW-05	8/9/17	79.54	79.19	5.12-15.12	N/A	9.28	0	69.91
RW-06	8/9/17	77.69	77.59	5-10	N/A	5.41	0	72.18
RW-07	8/9/17	79.35	79.26	5.35-15.35	N/A	8.53	0	70.73
RW-08	8/9/17	79.26	78.75	5.55-15.55	N/A	7.56	0	71.19
RW-09	8/9/17	79.31	79.02	5.20-15.25	N/A	8.21	0	70.81
RW-10	8/9/17	79.65	79.28	5.3-15.3	N/A	8.98	0	70.30
RW-11	8/9/17	79.76	79.52	5.3-15.3	N/A	9.13	0	70.39
MW-01	8/9/17	76.57	76.29	4-14	N/A	5.67	0	70.62
MW-02	8/9/17	79.71	79.38	4-14	N/A	5.79	0	73.59
MW-03	8/9/17	80.22	79.94	4-14	N/A	6.31	0	73.63
MW-04	8/9/17	77.12	76.78	4-14	N/A	2.19	0	74.59
MW-05	8/9/17	79.30	78.92	4-14	N/A	7.46	0	71.46
MW-06	8/9/17	79.28	78.92	4-14	N/A	7.73	0	71.19
MW-07	8/9/17	79.09	78.74	5-15	N/A	5.43	0	73.31
MW-08	8/9/17	80.15	79.90	5-15	N/A	5.31	0	74.59
MW-09A	8/9/17	80.54	80.30	4-14	N/A	5.62	0	74.68
Enhanced Fluid Recovery Event 38, September 18, 2017 – Before Recovery								
RW-01	9/18/17	79.43	79.25	5.2-15.2	N/A	6.69	0	72.56
RW-02	9/18/17	79.55	79.22	5.1-15.1	N/A	6.99	0	72.23
RW-03	9/18/17	79.23	79.09	5.12-15.12	N/A	7.11	0	71.98
RW-04	9/18/17	79.35	78.98	5.81-15.81	N/A	6.52	0	72.46
RW-05	9/18/17	79.54	79.19	5.12-15.12	6.73	6.83	0.10	72.44

Prepared by: Chris Napoleon, PG Date: November 29, 2017
Reviewed by: Gina Jones Date: November 30, 2017

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
RW-06	9/18/17	77.69	77.59	5-10	N/A	4.08	0	73.51
RW-07	9/18/17	79.35	79.26	5.35-15.35	6.59	6.71	0.12	72.65
RW-08	9/18/17	79.26	78.75	5.55-15.55	N/A	6.67	0	72.08
RW-09	9/18/17	79.31	79.02	5.20-15.25	N/A	6.74	0	72.28
RW-10	9/18/17	79.65	79.28	5.3-15.3	N/A	6.73	0	72.55
RW-11	9/18/17	79.76	79.52	5.3-15.3	N/A	6.55	0	72.97
MW-01	9/18/17	76.57	76.29	4-14	N/A	5.62	0	70.67
MW-02	9/18/17	79.71	79.38	4-14	N/A	5.72	0	73.66
MW-03	9/18/17	80.22	79.94	4-14	N/A	6.13	0	73.81
MW-04	9/18/17	77.12	76.78	4-14	N/A	2.24	0	74.54
MW-05	9/18/17	79.30	78.92	4-14	N/A	6.87	0	72.05
MW-06	9/18/17	79.28	78.92	4-14	N/A	7.23	0	71.69
MW-07	9/18/17	79.09	78.74	5-15	N/A	5.34	0	73.40
MW-08	9/18/17	80.15	79.90	5-15	N/A	5.45	0	74.45
MW-09A	9/18/17	80.54	80.30	4-14	N/A	5.42	0	74.88
Enhanced Fluid Recovery Event 39, September 19, 2017 – Before Recovery								
RW-01	9/19/17	79.43	79.25	5.2-15.2	N/A	6.68	0	72.57
RW-02	9/19/17	79.55	79.22	5.1-15.1	N/A	7.07	0	72.15
RW-03	9/19/17	79.23	79.09	5.12-15.12	N/A	7.13	0	71.96
RW-04	9/19/17	79.35	78.98	5.81-15.81	N/A	6.59	0	72.39
RW-05	9/19/17	79.54	79.19	5.12-15.12	N/A	6.78	0	72.41
RW-06	9/19/17	77.69	77.59	5-10	N/A	4.13	0	73.46
RW-07	9/19/17	79.35	79.26	5.35-15.35	N/A	6.64	0	72.62
RW-08	9/19/17	79.26	78.75	5.55-15.55	N/A	6.68	0	72.07
RW-09	9/19/17	79.31	79.02	5.20-15.25	N/A	6.71	0	72.31
RW-10	9/19/17	79.65	79.28	5.3-15.3	N/A	6.74	0	72.54
RW-11	9/19/17	79.76	79.52	5.3-15.3	N/A	6.72	0	72.80
MW-01	9/19/17	76.57	76.29	4-14	N/A	5.77	0	70.52
MW-02	9/19/17	79.71	79.38	4-14	N/A	5.78	0	73.60
MW-03	9/19/17	80.22	79.94	4-14	N/A	6.19	0	73.75
MW-04	9/19/17	77.12	76.78	4-14	N/A	2.22	0	74.56
MW-05	9/19/17	79.30	78.92	4-14	N/A	6.88	0	72.04
MW-06	9/19/17	79.28	78.92	4-14	N/A	7.26	0	71.66
MW-07	9/19/17	79.09	78.74	5-15	N/A	5.41	0	73.33
MW-08	9/19/17	80.15	79.90	5-15	N/A	5.36	0	74.54

Prepared by: Chris Napoleon, PG Date: November 29, 2017
Reviewed by: Gina Jones Date: November 30, 2017

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
MW-09A	9/19/17	80.54	80.30	4-14	N/A	5.52	0	74.78
Enhanced Fluid Recovery Event 39, September 19, 2017 – After Recovery								
RW-01	9/19/17	79.43	79.25	5.2-15.2	N/A	8.16	0	71.09
RW-02	9/19/17	79.55	79.22	5.1-15.1	N/A	8.01	0	71.21
RW-03	9/19/17	79.23	79.09	5.12-15.12	N/A	8.39	0	70.70
RW-04	9/19/17	79.35	78.98	5.81-15.81	N/A	14.72	0	64.26
RW-05	9/19/17	79.54	79.19	5.12-15.12	N/A	11.32	0	67.87
RW-06	9/19/17	77.69	77.59	5-10	N/A	5.67	0	71.92
RW-07	9/19/17	79.35	79.26	5.35-15.35	N/A	13.42	0	65.84
RW-08	9/19/17	79.26	78.75	5.55-15.55	N/A	13.81	0	64.94
RW-09	9/19/17	79.31	79.02	5.20-15.25	N/A	14.22	0	64.80
RW-10	9/19/17	79.65	79.28	5.3-15.3	N/A	13.48	0	65.80
RW-11	9/19/17	79.76	79.52	5.3-15.3	N/A	14.82	0	64.70
MW-01	9/19/17	76.57	76.29	4-14	N/A	5.79	0	70.50
MW-02	9/19/17	79.71	79.38	4-14	N/A	5.84	0	73.54
MW-03	9/19/17	80.22	79.94	4-14	N/A	6.37	0	73.57
MW-04	9/19/17	77.12	76.78	4-14	N/A	2.27	0	74.51
MW-05	9/19/17	79.30	78.92	4-14	N/A	7.58	0	71.34
MW-06	9/19/17	79.28	78.92	4-14	N/A	7.81	0	71.11
MW-07	9/19/17	79.09	78.74	5-15	N/A	5.49	0	73.25
MW-08	9/19/17	80.15	79.90	5-15	N/A	5.42	0	74.48
MW-09A	9/19/17	80.54	80.30	4-14	N/A	5.54	0	74.76
Enhanced Fluid Recovery Event 40, September 20, 2017 – Before Recovery								
RW-01	9/20/17	79.43	79.25	5.2-15.2	N/A	6.88	0	72.37
RW-02	9/20/17	79.55	79.22	5.1-15.1	N/A	7.17	0	72.05
RW-03	9/20/17	79.23	79.09	5.12-15.12	N/A	7.22	0	71.87
RW-04	9/20/17	79.35	78.98	5.81-15.81	N/A	6.74	0	72.24
RW-05	9/20/17	79.54	79.19	5.12-15.12	N/A	6.99	0	72.20
RW-06	9/20/17	77.69	77.59	5-10	N/A	4.35	0	73.24
RW-07	9/20/17	79.35	79.26	5.35-15.35	N/A	6.91	0	72.35
RW-08	9/20/17	79.26	78.75	5.55-15.55	N/A	6.83	0	71.92
RW-09	9/20/17	79.31	79.02	5.20-15.25	N/A	6.91	0	72.11
RW-10	9/20/17	79.65	79.28	5.3-15.3	N/A	6.89	0	72.39
RW-11	9/20/17	79.76	79.52	5.3-15.3	N/A	6.75	0	72.77
MW-01	9/20/17	76.57	76.29	4-14	N/A	5.84	0	70.45

Prepared by: Chris Napoleon, PG Date: November 29, 2017
Reviewed by: Gina Jones Date: November 30, 2017

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
MW-02	9/20/17	79.71	79.38	4-14	N/A	5.83	0	73.55
MW-03	9/20/17	80.22	79.94	4-14	N/A	6.26	0	73.68
MW-04	9/20/17	77.12	76.78	4-14	N/A	2.26	0	74.52
MW-05	9/20/17	79.30	78.92	4-14	N/A	6.94	0	71.98
MW-06	9/20/17	79.28	78.92	4-14	N/A	7.31	0	71.61
MW-07	9/20/17	79.09	78.74	5-15	N/A	5.45	0	73.29
MW-08	9/20/17	80.15	79.90	5-15	N/A	5.43	0	74.47
MW-09A	9/20/17	80.54	80.30	4-14	N/A	5.61	0	74.69
Enhanced Fluid Recovery Event 40, September 20, 2017 – After Recovery								
RW-01	9/20/17	79.43	79.25	5.2-15.2	N/A	8.54	0	70.71
RW-02	9/20/17	79.55	79.22	5.1-15.1	N/A	8.03	0	71.19
RW-03	9/20/17	79.23	79.09	5.12-15.12	N/A	8.42	0	70.67
RW-04	9/20/17	79.35	78.98	5.81-15.81	N/A	14.72	0	64.26
RW-05	9/20/17	79.54	79.19	5.12-15.12	N/A	14.98	0	64.21
RW-06	9/20/17	77.69	77.59	5-10	N/A	6.25	0	71.34
RW-07	9/20/17	79.35	79.26	5.35-15.35	N/A	11.56	0	67.70
RW-08	9/20/17	79.26	78.75	5.55-15.55	N/A	14.18	0	64.57
RW-09	9/20/17	79.31	79.02	5.20-15.25	N/A	12.46	0	66.56
RW-10	9/20/17	79.65	79.28	5.3-15.3	N/A	12.83	0	66.45
RW-11	9/20/17	79.76	79.52	5.3-15.3	N/A	14.58	0	64.94
MW-01	9/20/17	76.57	76.29	4-14	Well not accessible for monitoring because of alligator			
MW-02	9/20/17	79.71	79.38	4-14	N/A	5.91	0	73.47
MW-03	9/20/17	80.22	79.94	4-14	N/A	6.44	0	73.50
MW-04	9/20/17	77.12	76.78	4-14	N/A	2.24	0	74.54
MW-05	9/20/17	79.30	78.92	4-14	N/A	7.64	0	71.28
MW-06	9/20/17	79.28	78.92	4-14	N/A	7.87	0	71.05
MW-07	9/20/17	79.09	78.74	5-15	N/A	5.54	0	73.20
MW-08	9/20/17	80.15	79.90	5-15	N/A	5.49	0	74.41
MW-09A	9/20/17	80.54	80.30	4-14	N/A	5.64	0	74.66
Enhanced Fluid Recovery Event 41, November 13, 2017 – Before Recovery								
RW-01	11/13/17	79.43	79.25	5.2-15.2	N/A	7.73	0	71.52
RW-02	11/13/17	79.55	79.22	5.1-15.1	N/A	8.00	0	71.22
RW-03	11/13/17	79.23	79.09	5.12-15.12	N/A	7.81	0	71.28
RW-04	11/13/17	79.35	78.98	5.81-15.81	No free product Incorrect depth to water measurement was recorded			

Prepared by: Chris Napoleon, PG Date: November 29, 2017
Reviewed by: Gina Jones Date: November 30, 2017

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
RW-05	11/13/17	79.54	79.19	5.12-15.12	7.73	7.91	0.18	71.43
RW-06	11/13/17	77.69	77.59	5-10	N/A	5.35	0	72.24
RW-07	11/13/17	79.35	79.26	5.35-15.35	7.73	7.91	0.18	71.50
RW-08	11/13/17	79.26	78.75	5.55-15.55	N/A	7.61	0	71.14
RW-09	11/13/17	79.31	79.02	5.20-15.25	7.62	7.93	0.31	71.34
RW-10	11/13/17	79.65	79.28	5.3-15.3	N/A	7.67	0	71.61
RW-11	11/13/17	79.76	79.52	5.3-15.3	N/A	7.58	0	71.94
MW-01	11/13/17	76.57	76.29	4-14	N/A	6.67	0	69.62
MW-02	11/13/17	79.71	79.38	4-14	N/A	6.96	0	72.42
MW-03	11/13/17	80.22	79.94	4-14	N/A	7.21	0	72.73
MW-04	11/13/17	77.12	76.78	4-14	N/A	3.79	0	72.99
MW-05	11/13/17	79.30	78.92	4-14	N/A	7.49	0	71.43
MW-06	11/13/17	79.28	78.92	4-14	N/A	7.75	0	71.17
MW-07	11/13/17	79.09	78.74	5-15	N/A	6.34	0	72.40
MW-08	11/13/17	80.15	79.90	5-15	N/A	6.80	0	73.10
MW-09A	11/13/17	80.54	80.30	4-14	N/A	6.91	0	73.39
Enhanced Fluid Recovery Event 42, November 14, 2017 – Before Recovery								
RW-01	11/14/17	79.43	79.25	5.2-15.2	N/A	7.79	0	71.46
RW-02	11/14/17	79.55	79.22	5.1-15.1	N/A	8.01	0	71.21
RW-03	11/14/17	79.23	79.09	5.12-15.12	N/A	7.79	0	71.30
RW-04	11/14/17	79.35	78.98	5.81-15.81	N/A	7.61	0	71.37
RW-05	11/14/17	79.54	79.19	5.12-15.12	N/A	7.75	0	71.44
RW-06	11/14/17	77.69	77.59	5-10	N/A	5.33	0	72.26
RW-07	11/14/17	79.35	79.26	5.35-15.35	N/A	7.72	0	71.54
RW-08	11/14/17	79.26	78.75	5.55-15.55	N/A	7.62	0	71.13
RW-09	11/14/17	79.31	79.02	5.20-15.25	N/A	7.66	0	71.36
RW-10	11/14/17	79.65	79.28	5.3-15.3	N/A	7.65	0	71.63
RW-11	11/14/17	79.76	79.52	5.3-15.3	N/A	7.56	0	71.96
MW-01	11/14/17	76.57	76.29	4-14	N/A	6.69	0	69.60
MW-02	11/14/17	79.71	79.38	4-14	N/A	6.96	0	72.42
MW-03	11/14/17	80.22	79.94	4-14	N/A	7.21	0	72.73
MW-04	11/14/17	77.12	76.78	4-14	N/A	3.79	0	72.99
MW-05	11/14/17	79.30	78.92	4-14	N/A	7.51	0	71.41
MW-06	11/14/17	79.28	78.92	4-14	N/A	7.76	0	71.16
MW-07	11/14/17	79.09	78.74	5-15	N/A	6.35	0	72.39

Prepared by: Chris Napoleon, PG Date: November 29, 2017
Reviewed by: Gina Jones Date: November 30, 2017

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
MW-08	11/14/17	80.15	79.90	5-15	N/A	6.8	0	73.10
MW-09A	11/14/17	80.54	80.30	4-14	N/A	6.92	0	73.38
Enhanced Fluid Recovery Event 42, November 14, 2017 – After Recovery								
RW-01	11/14/17	79.43	79.25	5.2-15.2	N/A	8.69	0	70.56
RW-02	11/14/17	79.55	79.22	5.1-15.1	N/A	8.49	0	70.73
RW-03	11/14/17	79.23	79.09	5.12-15.12	N/A	8.56	0	70.53
RW-04	11/14/17	79.35	78.98	5.81-15.81	N/A	10.91	0	68.07
RW-05	11/14/17	79.54	79.19	5.12-15.12	N/A	10.39	0	68.80
RW-06	11/14/17	77.69	77.59	5-10	N/A	5.93	0	71.66
RW-07	11/14/17	79.35	79.26	5.35-15.35	N/A	9.19	0	70.07
RW-08	11/14/17	79.26	78.75	5.55-15.55	N/A	8.11	0	70.64
RW-09	11/14/17	79.31	79.02	5.20-15.25	N/A	9.15	0	69.87
RW-10	11/14/17	79.65	79.28	5.3-15.3	N/A	8.96	0	70.32
RW-11	11/14/17	79.76	79.52	5.3-15.3	N/A	8.59	0	70.93
MW-01	11/14/17	76.57	76.29	4-14	N/A	6.65	0	69.64
MW-02	11/14/17	79.71	79.38	4-14	N/A	7.01	0	72.37
MW-03	11/14/17	80.22	79.94	4-14	N/A	7.30	0	72.64
MW-04	11/14/17	77.12	76.78	4-14	N/A	3.91	0	72.87
MW-05	11/14/17	79.30	78.92	4-14	N/A	7.90	0	71.02
MW-06	11/14/17	79.28	78.92	4-14	N/A	8.11	0	70.81
MW-07	11/14/17	79.09	78.74	5-15	N/A	6.40	0	72.34
MW-08	11/14/17	80.15	79.90	5-15	N/A	6.80	0	73.10
MW-09A	11/14/17	80.54	80.30	4-14	N/A	6.93	0	73.37
Enhanced Fluid Recovery Event 43, November 15, 2017 – Before Recovery								
RW-01	11/15/17	79.43	79.25	5.2-15.2	N/A	7.80	0	71.45
RW-02	11/15/17	79.55	79.22	5.1-15.1	N/A	8.05	0	71.17
RW-03	11/15/17	79.23	79.09	5.12-15.12	N/A	7.83	0	71.26
RW-04	11/15/17	79.35	78.98	5.81-15.81	N/A	7.65	0	71.33
RW-05	11/15/17	79.54	79.19	5.12-15.12	N/A	7.79	0	71.40
RW-06	11/15/17	77.69	77.59	5-10	N/A	5.41	0	72.18
RW-07	11/15/17	79.35	79.26	5.35-15.35	N/A	7.79	0	71.47
RW-08	11/15/17	79.26	78.75	5.55-15.55	N/A	7.62	0	71.13
RW-09	11/15/17	79.31	79.02	5.20-15.25	N/A	7.70	0	71.32
RW-10	11/15/17	79.65	79.28	5.3-15.3	N/A	7.68	0	71.60
RW-11	11/15/17	79.76	79.52	5.3-15.3	N/A	7.61	0	71.91

Prepared by: Chris Napoleon, PG Date: November 29, 2017
Reviewed by: Gina Jones Date: November 30, 2017

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
MW-01	11/15/17	76.57	76.29	4-14	N/A	6.71	0	69.58
MW-02	11/15/17	79.71	79.38	4-14	Well not accessible for monitoring because of parked vehicle			
MW-03	11/15/17	80.22	79.94	4-14	N/A	7.22	0	72.72
MW-04	11/15/17	77.12	76.78	4-14	N/A	3.84	0	72.94
MW-05	11/15/17	79.30	78.92	4-14	N/A	7.56	0	71.36
MW-06	11/15/17	79.28	78.92	4-14	N/A	7.80	0	71.12
MW-07	11/15/17	79.09	78.74	5-15	N/A	6.37	0	72.37
MW-08	11/15/17	80.15	79.90	5-15	N/A	6.81	0	73.09
MW-09A	11/15/17	80.54	80.30	4-14	N/A	6.93	0	73.37
Enhanced Fluid Recovery Event 43, November 15, 2017 – After Recovery								
RW-01	11/15/17	79.43	79.25	5.2-15.2	N/A	9.21	0	70.04
RW-02	11/15/17	79.55	79.22	5.1-15.1	N/A	8.61	0	70.61
RW-03	11/15/17	79.23	79.09	5.12-15.12	N/A	8.76	0	70.33
RW-04	11/15/17	79.35	78.98	5.81-15.81	N/A	13.89	0	65.09
RW-05	11/15/17	79.54	79.19	5.12-15.12	N/A	13.13	0	66.06
RW-06	11/15/17	77.69	77.59	5-10	N/A	6.01	0	71.58
RW-07	11/15/17	79.35	79.26	5.35-15.35	N/A	10.92	0	68.34
RW-08	11/15/17	79.26	78.75	5.55-15.55	N/A	8.29	0	70.46
RW-09	11/15/17	79.31	79.02	5.20-15.25	N/A	9.28	0	69.74
RW-10	11/15/17	79.65	79.28	5.3-15.3	N/A	9.11	0	70.17
RW-11	11/15/17	79.76	79.52	5.3-15.3	N/A	8.72	0	70.80
MW-01	11/15/17	76.57	76.29	4-14	N/A	6.67	0	69.62
MW-02	11/15/17	79.71	79.38	4-14	Well not accessible for monitoring because of parked vehicle			
MW-03	11/15/17	80.22	79.94	4-14	N/A	7.35	0	72.59
MW-04	11/15/17	77.12	76.78	4-14	N/A	3.93	0	72.85
MW-05	11/15/17	79.30	78.92	4-14	N/A	7.98	0	70.94
MW-06	11/15/17	79.28	78.92	4-14	N/A	8.19	0	70.73
MW-07	11/15/17	79.09	78.74	5-15	N/A	6.42	0	72.32
MW-08	11/15/17	80.15	79.90	5-15	N/A	6.82	0	73.08
MW-09A	11/15/17	80.54	80.30	4-14	N/A	6.96	0	73.34

Prepared by: Chris Napoleon, PG Date: November 29, 2017
Reviewed by: Gina Jones Date: November 30, 2017

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
Enhanced Fluid Recovery Event 44, January 9, 2018 – Before Recovery								
RW-01	1/9/18	79.43	79.25	5.2-15.2	N/A	7.72	N/A	71.53
RW-02	1/9/18	79.55	79.22	5.1-15.1	N/A	7.94	N/A	71.28
RW-03	1/9/18	79.23	79.09	5.12-15.12	N/A	7.84	N/A	71.25
RW-04	1/9/18	79.35	78.98	5.81-15.81	7.59	7.62	0.03	71.38
RW-05	1/9/18	79.54	79.19	5.12-15.12	7.74	8.09	0.35	71.39
RW-06	1/9/18	77.69	77.59	5-10	5.33	5.40	0.07	72.25
RW-07	1/9/18	79.35	79.26	5.35-15.35	7.68	7.89	0.21	71.54
RW-08	1/9/18	79.26	78.75	5.55-15.55	7.55	7.56	0.01	71.19
RW-09	1/9/18	79.31	79.02	5.20-15.25	7.62	8.09	0.47	71.32
RW-10	1/9/18	79.65	79.28	5.3-15.3	7.65	7.67	0.02	71.63
RW-11	1/9/18	79.76	79.52	5.3-15.3	7.52	7.83	0.31	71.94
MW-01	1/9/18	76.57	76.29	4-14	N/A	6.48	N/A	69.81
MW-02	1/9/18	79.71	79.38	4-14	N/A	6.99	N/A	72.39
MW-03	1/9/18	80.22	79.94	4-14	N/A	7.22	N/A	72.72
MW-04	1/9/18	77.12	76.78	4-14	N/A	3.79	N/A	72.99
MW-05	1/9/18	79.30	78.92	4-14	N/A	7.53	N/A	71.39
MW-06	1/9/18	79.28	78.92	4-14	N/A	7.81	N/A	71.11
MW-07	1/9/18	79.09	78.74	5-15	N/A	6.32	N/A	72.42
MW-08	1/9/18	80.15	79.90	5-15	N/A	6.84	N/A	73.06
MW-09A	1/9/18	80.54	80.30	4-14	N/A	6.94	N/A	73.36
Enhanced Fluid Recovery Event 45, January 10, 2018 – Before Recovery								
RW-01	1/10/18	79.43	79.25	5.2-15.2	N/A	7.71	N/A	71.54
RW-02	1/10/18	79.55	79.22	5.1-15.1	N/A	7.94	N/A	71.28
RW-03	1/10/18	79.23	79.09	5.12-15.12	N/A	7.83	N/A	71.26
RW-04	1/10/18	79.35	78.98	5.81-15.81	N/A	7.36	N/A	71.62
RW-05	1/10/18	79.54	79.19	5.12-15.12	N/A	7.65	N/A	71.54
RW-06	1/10/18	77.69	77.59	5-10	N/A	5.31	N/A	72.28
RW-07	1/10/18	79.35	79.26	5.35-15.35	N/A	7.69	N/A	71.57
RW-08	1/10/18	79.26	78.75	5.55-15.55	N/A	7.56	N/A	71.19
RW-09	1/10/18	79.31	79.02	5.20-15.25	N/A	7.63	N/A	71.39
RW-10	1/10/18	79.65	79.28	5.3-15.3	N/A	7.62	N/A	71.66
RW-11	1/10/18	79.76	79.52	5.3-15.3	N/A	7.52	N/A	72.00
MW-01	1/10/18	76.57	76.29	4-14	N/A	6.52	N/A	69.77

Prepared by: Chris Napoleon, PG Date: February 4, 2018
Reviewed by: Gina Jones Date: February 5, 2018

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
MW-02	1/10/18	79.71	79.38	4-14	N/A	7.01	N/A	72.37
MW-03	1/10/18	80.22	79.94	4-14	N/A	7.24	N/A	72.70
MW-04	1/10/18	77.12	76.78	4-14	N/A	3.76	N/A	73.02
MW-05	1/10/18	79.30	78.92	4-14	N/A	7.53	N/A	71.39
MW-06	1/10/18	79.28	78.92	4-14	N/A	7.83	N/A	71.09
MW-07	1/10/18	79.09	78.74	5-15	N/A	6.34	N/A	72.40
MW-08	1/10/18	80.15	79.90	5-15	N/A	6.86	N/A	73.04
MW-09A	1/10/18	80.54	80.30	4-14	N/A	6.95	N/A	73.35
Enhanced Fluid Recovery Event 45, January 10, 2018 – After Recovery								
RW-01	1/10/18	79.43	79.25	5.2-15.2	N/A	9.15	N/A	70.10
RW-02	1/10/18	79.55	79.22	5.1-15.1	N/A	8.51	N/A	70.71
RW-03	1/10/18	79.23	79.09	5.12-15.12	N/A	8.59	N/A	70.50
RW-04	1/10/18	79.35	78.98	5.81-15.81	N/A	14.22	N/A	64.76
RW-05	1/10/18	79.54	79.19	5.12-15.12	N/A	13.18	N/A	66.01
RW-06	1/10/18	77.69	77.59	5-10	N/A	9.65	N/A	67.94
RW-07	1/10/18	79.35	79.26	5.35-15.35	N/A	13.67	N/A	65.59
RW-08	1/10/18	79.26	78.75	5.55-15.55	N/A	11.16	N/A	67.59
RW-09	1/10/18	79.31	79.02	5.20-15.25	N/A	10.64	N/A	68.38
RW-10	1/10/18	79.65	79.28	5.3-15.3	N/A	9.57	N/A	69.71
RW-11	1/10/18	79.76	79.52	5.3-15.3	N/A	12.17	N/A	67.35
MW-01	1/10/18	76.57	76.29	4-14	N/A	6.53	N/A	69.76
MW-02	1/10/18	79.71	79.38	4-14	N/A	7.06	N/A	72.32
MW-03	1/10/18	80.22	79.94	4-14	N/A	7.36	N/A	72.58
MW-04	1/10/18	77.12	76.78	4-14	N/A	4.01	N/A	72.77
MW-05	1/10/18	79.30	78.92	4-14	N/A	7.97	N/A	70.95
MW-06	1/10/18	79.28	78.92	4-14	N/A	8.22	N/A	70.70
MW-07	1/10/18	79.09	78.74	5-15	N/A	6.38	N/A	72.36
MW-08	1/10/18	80.15	79.90	5-15	N/A	6.88	N/A	73.02
MW-09A	1/10/18	80.54	80.30	4-14	N/A	6.96	N/A	73.34
Enhanced Fluid Recovery Event 46, January 11, 2018 – Before Recovery								
RW-01	1/11/18	79.43	79.25	5.2-15.2	N/A	7.67	N/A	71.58
RW-02	1/11/18	79.55	79.22	5.1-15.1	N/A	7.52	N/A	71.70
RW-03	1/11/18	79.23	79.09	5.12-15.12	N/A	7.41	N/A	71.68
RW-04	1/11/18	79.35	78.98	5.81-15.81	N/A	7.54	N/A	71.44
RW-05	1/11/18	79.54	79.19	5.12-15.12	N/A	7.64	N/A	71.55

Prepared by: Chris Napoleon, PG Date: March 6, 2018
Reviewed by: Gina Jones Date: March 8, 2018

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
RW-06	1/11/18	77.69	77.59	5-10	N/A	5.44	N/A	72.15
RW-07	1/11/18	79.35	79.26	5.35-15.35	N/A	7.59	N/A	71.67
RW-08	1/11/18	79.26	78.75	5.55-15.55	N/A	7.34	N/A	71.41
RW-09	1/11/18	79.31	79.02	5.20-15.25	N/A	7.55	N/A	71.47
RW-10	1/11/18	79.65	79.28	5.3-15.3	N/A	7.56	N/A	71.72
RW-11	1/11/18	79.76	79.52	5.3-15.3	N/A	7.51	N/A	72.01
MW-01	1/11/18	76.57	76.29	4-14	N/A	6.04	N/A	70.25
MW-02	1/11/18	79.71	79.38	4-14	N/A	6.91	N/A	72.47
MW-03	1/11/18	80.22	79.94	4-14	N/A	7.08	N/A	72.86
MW-04	1/11/18	77.12	76.78	4-14	N/A	3.71	N/A	73.07
MW-05	1/11/18	79.30	78.92	4-14	N/A	7.42	N/A	71.50
MW-06	1/11/18	79.28	78.92	4-14	N/A	7.71	N/A	71.21
MW-07	1/11/18	79.09	78.74	5-15	N/A	6.21	N/A	72.53
MW-08	1/11/18	80.15	79.90	5-15	N/A	6.75	N/A	73.15
MW-09A	1/11/18	80.54	80.30	4-14	N/A	6.84	N/A	73.46
Enhanced Fluid Recovery Event 46, January 11, 2018 – After Recovery								
RW-01	1/11/18	79.43	79.25	5.2-15.2	N/A	8.37	N/A	70.88
RW-02	1/11/18	79.55	79.22	5.1-15.1	N/A	8.17	N/A	71.05
RW-03	1/11/18	79.23	79.09	5.12-15.12	N/A	8.67	N/A	70.42
RW-04	1/11/18	79.35	78.98	5.81-15.81	N/A	14.32	N/A	64.66
RW-05	1/11/18	79.54	79.19	5.12-15.12	N/A	11.68	N/A	67.51
RW-06	1/11/18	77.69	77.59	5-10	N/A	9.28	N/A	68.31
RW-07	1/11/18	79.35	79.26	5.35-15.35	N/A	12.72	N/A	66.54
RW-08	1/11/18	79.26	78.75	5.55-15.55	N/A	10.64	N/A	68.11
RW-09	1/11/18	79.31	79.02	5.20-15.25	N/A	12.77	N/A	66.25
RW-10	1/11/18	79.65	79.28	5.3-15.3	N/A	12.72	N/A	66.56
RW-11	1/11/18	79.76	79.52	5.3-15.3	N/A	14.92	N/A	64.60
MW-01	1/11/18	76.57	76.29	4-14	N/A	6.05	N/A	70.24
MW-02	1/11/18	79.71	79.38	4-14	N/A	6.93	N/A	72.45
MW-03	1/11/18	80.22	79.94	4-14	N/A	7.15	N/A	72.79
MW-04	1/11/18	77.12	76.78	4-14	N/A	3.94	N/A	72.84
MW-05	1/11/18	79.30	78.92	4-14	N/A	8.09	N/A	70.83
MW-06	1/11/18	79.28	78.92	4-14	N/A	8.22	N/A	70.70
MW-07	1/11/18	79.09	78.74	5-15	N/A	6.29	N/A	72.45
MW-08	1/11/18	80.15	79.90	5-15	N/A	6.74	N/A	73.16

Prepared by: Chris Napoleon, PG Date: March 6, 2018
Reviewed by: Gina Jones Date: March 8, 2018

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
MW-09A	1/11/18	80.54	80.30	4-14	N/A	6.84	N/A	73.46
Groundwater Sampling Event, February 13, 2018 – Before Sampling								
RW-01	2/13/18	79.43	79.25	5.2-15.2	N/A	7.21	N/A	72.04
RW-02	2/13/18	79.55	79.22	5.1-15.1	N/A	7.39	N/A	71.83
RW-03	2/13/18	79.23	79.09	5.12-15.12	N/A	7.48	N/A	71.61
RW-04	2/13/18	79.35	78.98	5.81-15.81	N/A	7.04	N/A	71.94
RW-05	2/13/18	79.54	79.19	5.12-15.12	N/A	7.28	N/A	71.91
RW-06	2/13/18	77.69	77.59	5-10	N/A	4.96	N/A	72.63
RW-07	2/13/18	79.35	79.26	5.35-15.35	N/A	7.12	N/A	72.14
RW-08	2/13/18	79.26	78.75	5.55-15.55	N/A	7.03	N/A	71.72
RW-09	2/13/18	79.31	79.02	5.20-15.25	N/A	7.22	N/A	71.80
RW-10	2/13/18	79.65	79.28	5.3-15.3	N/A	7.22	N/A	72.06
RW-11	2/13/18	79.76	79.52	5.3-15.3	N/A	7.07	N/A	72.45
MW-01	2/13/18	76.57	76.29	4-14	N/A	5.72	N/A	70.57
MW-02	2/13/18	79.71	79.38	4-14	N/A	6.40	N/A	72.98
MW-03	2/13/18	80.22	79.94	4-14	N/A	6.74	N/A	73.20
MW-04	2/13/18	77.12	76.78	4-14	N/A	3.07	N/A	73.71
MW-05	2/13/18	79.30	78.92	4-14	N/A	7.17	N/A	71.75
MW-06	2/13/18	79.28	78.92	4-14	N/A	7.51	N/A	71.41
MW-07	2/13/18	79.09	78.74	5-15	N/A	5.78	N/A	72.96
MW-08	2/13/18	80.15	79.90	5-15	N/A	6.11	N/A	73.79
MW-09A	2/13/18	80.54	80.30	4-14	N/A	6.13	N/A	74.17
Groundwater Sampling Event, February 14, 2018 – After Sampling								
RW-01	2/14/18	79.43	79.25	5.2-15.2	N/A	7.09	N/A	72.16
RW-02	2/14/18	79.55	79.22	5.1-15.1	N/A	7.35	N/A	71.87
RW-03	2/14/18	79.23	79.09	5.12-15.12	N/A	7.43	N/A	71.66
RW-04	2/14/18	79.35	78.98	5.81-15.81	N/A	6.98	N/A	72.00
RW-05	2/14/18	79.54	79.19	5.12-15.12	N/A	7.22	N/A	71.97
RW-06	2/14/18	77.69	77.59	5-10	N/A	4.81	N/A	72.78
RW-07	2/14/18	79.35	79.26	5.35-15.35	N/A	7.07	N/A	72.19
RW-08	2/14/18	79.26	78.75	5.55-15.55	N/A	7.01	N/A	71.74
RW-09	2/14/18	79.31	79.02	5.20-15.25	N/A	7.17	N/A	71.85
RW-10	2/14/18	79.65	79.28	5.3-15.3	N/A	7.16	N/A	72.12
RW-11	2/14/18	79.76	79.52	5.3-15.3	N/A	6.99	N/A	72.53
MW-01	2/14/18	76.57	76.29	4-14	N/A	5.78	N/A	70.51

Prepared by: Chris Napoleon, PG Date: March 6, 2018
Reviewed by: Gina Jones Date: March 8, 2018

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
MW-02	2/14/18	79.71	79.38	4-14	N/A	6.38	N/A	73.00
MW-03	2/14/18	80.22	79.94	4-14	N/A	6.71	N/A	73.23
MW-04	2/14/18	77.12	76.78	4-14	N/A	3.04	N/A	73.74
MW-05	2/14/18	79.30	78.92	4-14	N/A	7.16	N/A	71.76
MW-06	2/14/18	79.28	78.92	4-14	N/A	7.49	N/A	71.43
MW-07	2/14/18	79.09	78.74	5-15	N/A	5.76	N/A	72.98
MW-08	2/14/18	80.15	79.90	5-15	N/A	6.06	N/A	73.84
MW-09A	2/14/18	80.54	80.30	4-14	N/A	6.25	N/A	74.05

Prepared by: Chris Napoleon, PG Date: March 6, 2018
Reviewed by: Gina Jones Date: March 8, 2018

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 1 Groundwater Elevations (continued)

Well Number	Date	Ground Surface Elevation (ft.)	Top of Casing Elevation (ft.)	Depth of Screened Interval (ft.)	Depth to Free Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Groundwater Elevation (ft.)
Groundwater Sampling Event, May 8, 2018 – Before Sampling								
RW-01	5/8/2018	79.43	79.25	5.2-15.2	N/A	7.97	N/A	71.28
RW-02	5/8/2018	79.55	79.22	5.1-15.1	N/A	8.25	N/A	70.97
RW-03	5/8/2018	79.23	79.09	5.12-15.12	N/A	8.01	N/A	71.08
RW-04	5/8/2018	79.35	78.98	5.81-15.81	N/A	7.86	N/A	71.12
RW-05	5/8/2018	79.54	79.19	5.12-15.12	7.96	8.05	0.09	71.21
RW-06	5/8/2018	77.69	77.59	5-10	5.66	5.68	0.02	72.07
RW-07	5/8/2018	79.35	79.26	5.35-15.35	N/A	7.95	N/A	71.31
RW-08	5/8/2018	79.26	78.75	5.55-15.55	N/A	7.81	N/A	70.94
RW-09	5/8/2018	79.31	79.02	5.20-15.25	7.75	8.62	0.87	71.11
RW-10	5/8/2018	79.65	79.28	5.3-15.3	N/A	7.84	N/A	71.44
RW-11	5/8/2018	79.76	79.52	5.3-15.3	N/A	7.76	N/A	71.76
MW-01	5/8/2018	76.57	76.29	4-14	N/A	6.83	N/A	69.46
MW-02	5/8/2018	79.71	79.38	4-14	N/A	7.25	N/A	72.13
MW-03	5/8/2018	80.22	79.94	4-14	N/A	7.49	N/A	72.45
MW-04	5/8/2018	77.12	76.78	4-14	N/A	4.25	N/A	72.53
MW-05	5/8/2018	79.30	78.92	4-14	N/A	7.76	N/A	71.16
MW-06	5/8/2018	79.28	78.92	4-14	N/A	7.97	N/A	70.95
MW-07	5/8/2018	79.09	78.74	5-15	N/A	6.61	N/A	72.13
MW-08	5/8/2018	80.15	79.90	5-15	N/A	7.13	N/A	72.77
MW-09A	5/8/2018	80.54	80.30	4-14	N/A	7.21	N/A	73.09

NOTE:
Corrected Groundwater Elevation = Top of casing elevation – Depth to water + (Specific gravity x Product Thickness)
Fuel oil's specific gravity of 0.82 was used.
ft. = foot or feet
N/A = not applicable
TOC = top of casing
MW = monitor well
RW = recovery well

Prepared by: Chris Napoleon, PG Date: May 31, 2018
Reviewed by: Gina Jones Date: June 1, 2018

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 2: Site Investigation Groundwater Analytical BTEX Results

Well Number	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)
Groundwater Sampling Event April 12, 2011							
MW-01	4/12/11	0.140U	0.190U	0.150U	0.220U	ND	NC
MW-02	4/12/11	0.140U	0.190U	0.150U	0.220U	ND	NC
MW-03	4/12/11	0.140U	0.190U	0.150U	0.220U	ND	NC
MW-04	4/12/11	3.67	0.839J	19.8	112	136.309	NC
MW-05	4/12/11	0.140U	0.190U	0.150U	0.220U	ND	NC
MW-059*	4/12/11	0.140U	0.190U	0.150U	0.220U	ND	NC
MW-06	4/12/11	0.140U	0.190U	0.150U	0.220U	ND	NC
Groundwater Sampling Event August 8, 2013							
MW-07	8/8/13	0.250U	0.250U	0.250U	0.750U	ND	0.250U
MW-08	8/8/13	0.250U	0.250U	0.250U	0.750U	ND	0.250U
MW-089*	8/8/13	0.250U	0.250U	0.250U	0.750U	ND	0.250U
MW-09A	8/8/13	0.250U	0.250U	0.250U	0.750U	ND	0.250U
Applicable Standards		5 (MCL) 51 (IWQS)	1,000 (MCL) 5,980 (IWQS)	700 (MCL) 2,100 (IWQS)	N/A	N/A	N/A
GUST Detection Limits		5	5	5	5	N/A	N/A

Prepared by: Chris Napoleon, PG Date: March 6, 2018
Reviewed by: Doug Hawn Date: March 8, 2018

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 2: Site Investigation Groundwater Analytical BTEX Results (continued)

Well Number	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)
Groundwater Sampling Event February 13-14, 2018							
MW-01	2/13/18	0.500U	0.500U	0.500U	1.50U	ND	NC
MW-019*	2/13/18	0.500U	0.500U	0.500U	1.50U	ND	NC
MW-02	2/13/18	0.500U	0.500U	0.500U	1.50U	ND	NC
MW-03	2/13/18	0.500U	0.500U	0.500U	1.50U	ND	NC
MW-04	2/13/18	0.500U	0.500U	0.500U	1.50U	ND	NC
MW-05	2/13/18	0.500U	0.500U	0.500U	1.50U	ND	NC
MW-06	2/14/18	0.500U	0.500U	0.500U	1.50U	ND	NC
MW-07	2/14/18	0.500U	0.500U	0.500U	1.50U	ND	NC
MW-08	2/14/18	0.500U	0.500U	0.500U	1.50U	ND	NC
MW-09A	2/14/18	0.500U	0.500U	0.500U	1.50U	ND	NC
Groundwater Sampling Event May 8, 2018							
MW-01	5/8/18	0.500U	0.500U	0.500U	1.50U	ND	NC
MW-02	5/8/18	0.500U	0.500U	0.500U	1.50U	ND	NC
MW-03	5/8/18	0.500U	0.500U	0.500U	1.50U	ND	NC
MW-039*	5/8/18	0.500U	0.500U	0.500U	1.50U	ND	NC
MW-04	5/8/18	0.500U	0.500U	**1.35J**	1.50U	**1.35**	NC
MW-05	5/8/18	0.500U	0.500U	0.500U	1.50U	ND	NC
MW-06	5/8/18	0.500U	0.500U	0.500U	1.50U	ND	NC
MW-07	5/8/18	0.500U	0.500U	0.500U	1.50U	ND	NC
MW-08	5/8/18	0.500U	0.500U	0.500U	1.50U	ND	NC
MW-09A	5/8/18	0.500U	0.500U	0.500U	1.50U	ND	NC
Applicable Standards		5 (MCL) 51 (IWQS)	1,000 (MCL) 5,980 (IWQS)	700 (MCL) 2,100 (IWQS)	N/A	N/A	N/A
GUST Detection Limits		5	5	5	5	N/A	N/A

NOTES:
* MW-059 is a duplicate of sample MW-05.
* MW-089 is a duplicate sample of MW-08.
* MW-019 is a duplicate sample of MW-01
* MW-039 is a duplicate sample of MW-03
Bold=laboratory detection
Applicable standard is Drinking Water Maximum Contaminant Level and the Georgia In-Stream Water Quality Standard (Effective October 22, 2013).

µg/L = micrograms per liter
BTEX = benzene, toluene, ethylbenzene, xylenes
GUST = Georgia Underground Storage Tank
IWQS = In-Stream Water Quality Standard
MCL = maximum contaminant level
MTBE = methyl tertbutyl ether
MW = monitor well
N/A = not applicable
ND = not detected
U = concentration not detected at lab detection limit shown
NC= not collected

Prepared by: Chris Napoleon, PG Date: May 31, 2018
Reviewed by: Doug Hawn Date: June 1, 2018

AAFES Furniture Store, Heating Oil UST, Building 419 Steele Ave.,
Liberty County, Fort Stewart, Georgia 31314

Table 2A: Preliminary Assessment and Site Investigation Groundwater Analytical Results for Polynuclear Aromatic Hydrocarbons

Sample Location	Date Sampled	Acenaphthene (µg/L)	Acenapthylene (µg/L)	Anthracene (µg/L)	Benzo(a)anthracene (µg/L)	Benzo(a)pyrene (µg/L)	Benzo(b)fluoranthene (µg/L)	Benzo(g,h,i)perylene (µg/L)	Benzo(k)fluoranthene (µg/L)	Chrysene (µg/L)	Dibenz(a,h)anthracene (µg/L)	Fluoranthene (µg/L)	Fluorene (µg/L)	Indeno(1,2,3-cd)pyrene (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthanlene (µg/L)	Phenanthrene (µg/L)	Pyrene (µg/L)
MW-01-01	4/12/11	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U
MW-02-02	4/12/11	0.0472UJ	0.0472UJ	0.0472UJ	0.0472UJ	0.0472UJ	0.0472UJ	0.0472UJ	0.0472UJ	0.0472UJ	0.0472UJ	0.0472UJ	0.0472UJ	0.0472UJ	0.0472UJ	0.0472UJ	0.0472UJ	0.0472UJ	0.0472UJ
MW-03-03	4/12/11	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0563J
MW-04-04	4/12/11	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.0463UJ	0.414 U	0.110 U	0.0463UJ	0.0463UJ	0.139 J
MW-05-05	4/12/11	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U
MW-05-059*	4/12/11	0.0467 U	0.0467 U	0.0467 U	0.0467 U	0.0467 U	0.0467 U	0.0467 U	0.0467 U	0.0467 U	0.0467 U	0.0467 U	0.0467 U	0.0467 U	0.0467 U	0.0467 U	0.0467 U	0.0467 U	0.0467 U
MW-06-06	4/12/11	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
MW-07	8/8/13	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.0633J	0.050U	0.050U	0.050U	0.100U	0.050U	0.100U	0.050U
MW-08	8/8/13	0.0463U	0.0463U	0.0463U	0.0463U	0.0463U	0.0463U	0.0463U	0.0463U	0.0463U	0.0463U	0.0474J	0.0463U	0.0463U	0.0463U	0.0926U	0.0463U	0.0926U	0.0463U
MW-089*	8/8/13	0.0463U	0.0463U	0.0463U	0.0463U	0.0463U	0.0463U	0.0463U	0.0463U	0.0463U	0.0463U	0.0556J	0.0463U	0.0463U	0.0463U	0.0926U	0.0582J	0.0926U	0.0582J
MW-09A	8/8/13	0.0481U	0.0481U	0.0481U	0.0481U	0.0481U	0.0481U	0.0481U	0.0481U	0.0481U	0.0481U	0.0481U	0.0481U	0.0481U	0.0481U	0.0962U	0.0481U	0.0962U	0.0481U
Georgia In-Stream Water Quality Standard (µg/L)		NRC	NRC	110,000	NRC	NRC	NRC	NRC	NRC	NRC	NRC	370	14,000	NRC	NRC	NRC	NRC	NRC	11,000
GUST Detection Limit µg/L)		**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**N/A**	**N/A**	**10**	**10**	**10**

NOTES:
* MW-05-059 is a duplicate sample of MW-05-05.
*MW-089 is a duplicate of sample MW-08
µg/L = micrograms per liter
J = laboratory-estimated value
N/A = not applicable
U = concentration not detected equal to or greater than lab detection limit shown

IWQS =Georgia In-Stream Water Quality Standard
MW = monitor well
NRC = No regulatory criteria

Prepared by: Chris Napoleon, PG Date: June 5, 2014
Reviewed by: Doug Hawn Date: June 6, 2014

Appendix III

Site Ranking Form

SITE RANKING FORM (PAGE 1)

A. Total Regulated PAHs – Maximum concentration at the site (Assume < 0.660 mg/kg if only gasoline was stored on site)

____ ≤ 0.0660 = 0

____ .066-0.99 mg/kg = 10

X* 1-10 mg/kg = 25

____ >10 mg/kg = 50

*Pyrene 5.850 mg/kg, Sample SB-14-01 March 2011

B. Total Benzene – Maximum Concentration found on the site

____ ≤ 0.005 mg/kg = 0

____ >0.005 - .05 mg/kg = 1

X* .05 – .99 = 10

____ 1 – 9.9 = 25

____ 10 – 49.9 mg/kg = 40

____ ≥ 50 mg/kg = 50

*Benzene 0.504 mg/kg Sample SB-10-01 March 2011

C. DEPTH TO GROUNDWATER – (Shallowest, measured from below land surface)

____ > 50' bls = 1

____ > 25' bls = 2

____ > 10' bls = 5

X ≤ 10' bls = 10

Fill in the blanks: (A. 25 + B. 10) x C. 10 = D. 350

E. Free Product (Nonaqueous-phase liquid hydrocarbons: See Guidelines for definition of "sheen").

____ No free product = 0

____ Sheen – 1/8" = 250

____ > 1/8" - 6" = 500

X > 6" – 1ft. = 1,000

____ For every additional inch above a foot, add 100 more points = 1,000+

F. Dissolved Benzene – Maximum Concentration at the site (One well must be located at the source of the release.)

X ≤ 5 ug/L = 0

____ >5 – 100 ug/L = 5

____ >100 – 1,000 ug/L = 50

____ >1,000 – 5,000 ug/L = 250

____ >5,000 – 10,000 ug/L = 500

____ > 10,000 ug/L = 1,500

Fill in the blanks: (E. 1,000 + F. 0) = G. 1,000

SITE RANKING FORM (PAGE 2)

H. Public Wells

____ Impacted = 2,000
____ ≤ 500' = 500
____ > 500' – 1/4 mi = 25
X* > 1/4 mi – 1 mi = 10
> 1 mi – 2 mi = 2
> 2 mi = 0

For lower susceptibility areas only:
____ > 1 mi = 0

*Nearest public water supply 1,800 feet.

I. Non-public wells

____ Impacted = 1,000
____ ≤ 100' = 500
____ > 100' - 500' = 25
> 500' – 1/4 mi = 5
X* > 1/4 mi – 1/2 mi = 2
> 1/2 mi = 0

For lower susceptibility areas only:
____ > 1/4 mi = 0

*Nearest nonpublic water supply 2,000 feet

Note: If site is in lower susceptibility area do not use the shaded areas.

J. Distance from nearest contaminant Plume boundary to downgradient Surface Waters OR UTILITY TRENCHES & VAULTS

____ Impacted = 500
X ≤ 500' = 50
____ > 500'- 1,000' = 5
____ > 1,000' = 2

K. Distance from any Free Product to basements and crawl spaces

____ Impacted = 500
____ ≤ 500' = 50
____ > 500'- 1,000' = 5
X > 1,000' = 2

Fill in the blanks:

(H. 10 + I. 2 + J. 50 + K. 2) = L. 64

(G. 1,000 x L. 64) = M. 64,000

(M. 64,000 + D. 350) = N. 64,350

P. SUSCEPTIBILITY AREA MULTIPLIER

____ If site is located in a Low Groundwater Pollution Susceptibility Area = 0.5
X All other sites = 1

Q. EXPLOSION HAZARD

Have any explosive petroleum vapors, possibly originating from this release, been detected in any subsurface structure (e.g., utility trenches, basements, vaults, crawl space, etc.)

____ Yes = 200,000
X No = 0

(N. 64,350 x P. 1)+ Q. 0 = **64, 350**

ENVIRONMENTAL SENSITIVITY SCORE

OTHER GEOLOGIC AND HYDROGEOLOGIC DATA

The following information is presented to provide supplemental information to Item H of the Site Ranking Form; it provides detailed information relating to the geologic and hydrogeologic conditions at Fort Stewart, which supports Fort Stewart's determination that the water withdrawal point(s) at Fort Stewart are not hydraulically connected to the surficial aquifer.

1.0 REGIONAL AND LOCAL GEOLOGY

Fort Stewart is within the coastal plain physiographic province. This province is typified by nine southeastward dipping strata that increase in thickness from 0 feet at the fall line, approximately 150 miles inland from the Atlantic coast, to approximately 4,200 feet at the coast. State geologic records describe a probably petroleum exploration well (the No. 1 Jelks-Rogers) in the region as encountering crystalline basement rocks at a depth of 4,254 feet below ground surface (BGS). This well provides the most complete record for Cretaceous, Tertiary, and Quaternary sedimentary strata in the region.

The Cretaceous section was found to be approximately 1,970 feet thick and dominated by clastics. The Tertiary section was found to be approximately 2,170 feet thick and dominated by limestone with a 175-foot cap of dark green phosphatic clay. This clay is regionally extensive and is known as the Hawthorn Group. The interval from approximately 110 feet to the surface is Quaternary in age and composed primarily of sand with interbeds of clay or silt. This section is undifferentiated into separate formations (Herrick and Vochis 1963).

State geologic records contain information regarding a well drilled in October 1942, 1.8 miles north of Flemington at Liberty Field of Camp Stewart (now known as Fort Stewart). This well is believed to be an artesian well approximately ¼ mile north of the runway at Wright Army Airfield within the Fort Stewart Military Reservation. The log for this well describes a 410-foot section, the lowermost 110 feet of which consisted predominantly of limestone sediments, above which 245 feet of dark green phosphatic clay typical of the Hawthorn Group was encountered. The uppermost portion of the section was found to be Quaternary-age interbedded sands and clays. The top 15 feet of these sediments was described as sandy clay (Herrick and Vochis 1963).

The surface soil in the Fort Stewart garrison area consists of Stilson loamy sand. The surface layer of this soil is typically dark grayish-brown loamy sand measuring approximately 6 inches in depth. The surface layer is underlain by material consisting of pale yellow loamy sand and extends to a depth of approximately

29 inches. The subsoil is dominantly sandy clay loam and extends to a depth of 72 inches or more (Herrick and Vochis 1963).

2.0 REGIONAL AND LOCAL HYDROGEOLOGY

The hydrogeology in the vicinity of Fort Stewart is dominated by two aquifers referred to as the Principal Artesian and the Surficial aquifers. The Principal Artesian Aquifer is the lowermost hydrologic unit and extends from South Carolina through Georgia, Alabama, and most of Florida. Known elsewhere as the Floridan, this aquifer is composed primarily of Tertiary-age limestone, including the Bug Island Formation, the Ocala Group, and the Suwannee Limestone. These formations are approximately 800 feet thick, and groundwater from this aquifer is used primarily for drinking water (Arora 1984).

The uppermost hydrologic unit is the surficial aquifer, which consists of sand and clay ranging from 55 to 150 feet in thickness. This aquifer is primarily used for domestic lawn and agricultural irrigation. The top of the water table ranges approximately 2 feet to 10 feet BGS (Geraghty and Miller 1993). The base of the aquifer corresponds to the top of the underlying dense clay of the Hawthorn Group. The Hawthorn Group was not encountered during drilling at this site but is believed to be 40 feet to 50 feet BGS; thus, the effective aquifer thickness would be approximately 35 feet to 45 feet. Soil surveys for Liberty and Long counties describe the occurrence of a perched water table within the Stilson loamy sands present within Fort Stewart (Looper 1980).

The confining layer for the Principal Artesian aquifer is the phosphatic clay of the Hawthorn Group and ranges in thickness from 15 feet to 90 feet. The vertical hydraulic conductivity of this confining unit is on the order of 10^{-8} cm/sec. There are minor occurrences of aquifer material within the Hawthorn Group; however, they have limited utilization (Miller 1990). The Hawthorn Group has been divided into three formations; Coosawhatchie Formation, Markshead Formation, and the Parachula Formation, which are listed from youngest to oldest.

The Coosawhatchie Formation is composed predominately of clay but also has sandy clay, argillaceous sand, and phosphorite units. The formation is approximately 170 feet thick in the Savannah, Georgia, area. This unit disconformably overlies the Markshead Formation and is distinguished from the underlying unit by dark phosphatic clays or phosphorite in the lower part and fine-grained sand in the upper part.

The Markshead Formation is approximately 70 feet thick in the Savannah, Georgia, area and consists of light-colored phosphatic, slightly dolomitic, argillaceous sand to fine-grained sandy clay with scattered beds of dolostone and limestone.

The Parachula Formation consists of sand, clay, limestone, and dolomite, and is approximately 10 feet thick in the Savannah, Georgia, area. The Parachula Formation generally overlies the Suwannee Limestone in Georgia.

Groundwater encountered at all the underground storage tank (UST) investigation sites is part of the Surficial Aquifer system. Based on the fact that all public and nonpublic water supply wells draw water from the Principal (Floridan) Aquifer, and that the Hawthorn confining unit separates the Principal Aquifer from the Surficial Aquifer, it is concluded that there is no hydraulic interconnection between the Surficial Aquifer (and associated groundwater plumes, if applicable) located beneath former UST sites and identified water supply withdrawal points at Fort Stewart.

3.0 REFERENCES

Arora, Ram, 1984, *Hydrologic Evaluation for Underground Injection Control in the Coastal Plain of Georgia,* Department of Natural Resources, Environmental Protection Division, Georgia Geological Survey.

Geraghty and Miller, 1993. *RCRA Facility Investigation Work Plan, Fort Stewart, Georgia.*

Herrick, S. M., and R. C. Vochis 1963. *Subsurface Geology of the Georgia Coastal Plain,* Georgia. Geologic Survey Information Circular 25.

Looper, Edward E., 1980. *Soil Survey of Liberty and Long Counties, Georgia,* U.S. Department of Agriculture, Soil Conservation Service.

Miller, James A., 1990. *Groundwater Atlas of the United States,* U.S. Department of the Interior, U.S. Geological Survey, Hydrologic Inventory Atlas 730G.

Appendix IV
Laboratory Data Package

Data Validation Report

DATA VALIDATION REPORT

Ft. Stewart
Building 419 Monitoring Wells
Samples Collected May 14, 2018

Prepared by DataChek

May 23, 2018

TABLE OF CONTENTS

List of Tables

ACRONYMS AND ABBREVIATIONS

%	Percent
%D	percent difference
B	blank contamination
CB	calibration blank
CCAL	continuing calibration
CCV	continuing calibration verification
COC	chain of custody
CLP	Contract Laboratory Program
EPA	Environnemental Protection Agency
ER	equipment rinsate
FD	field duplicate
ICAL	initial calibration
ICL	instrument calibration limit
ICV	initial calibration verification
IS	internal standard
J	estimated value
LCS	laboratory control sample
LOD	limit of detection
LOQ	limit of quantification
MB	method blank
MDL	method detection limit
MS	matrix spike
MSD	matrix spike duplicate
PARCC	precision, accuracy, representativeness, comparability, completeness
QAPP	Quality Assurance Program Plan
QC	quality control
R	Rejected
RL	reporting limit
RPD	relative percent difference
RRF	relative response factor
RSD	relative standard deviation
SDG	sample delivery group
TB	trip blank
U	not detected
UJ	not detected; associated value is an estimate

1. INTRODUCTION

The data validation of ground-water samples from the Building 419 Monitoring Wells project at Ft Stewartl, GA was completed in May 2018. The samples were collected on May 8, 2018 and Emperical Laboratories, Nashville, TN, received these samples on May 10, 2018. The samples were assigned to a single sample delivery group (SDG) 1805062. The samples were analyzed for organic compounds (benzene, toluene, ethylbenzene, xylenes) using United States Environmental Protection Agency (EPA) Method 8260B. A list of these samples by field sample identification (ID), sample collection date, sample matrix, Emperical Lab sample ID and validation level are presented in Table 1.

2. PROCEDURES

EPA Stage IIb validation was performed on the samples associated with this sampling event as indicated on Table 1. The Stage IIb validation includes review of the QC results in the laboratory's analytical report and reported on QC summary forms with no review of the associated raw data. Data from equipment and field blanks did not undergo validation because results from these samples are only used to assess data usability for field samples. This data validation has been performed in accordance with:

Department of Defense, 2017. DoD Quality Systems Manual for Environmental Laboratories.

EPA, 2014. EPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review.

The laboratory's certified analytical report and supporting documentation were reviewed to assess the following:

- Data package and electronic data deliverable completeness;
- Laboratory case narrative review;
- Chain of custody (COC) compliance;
- Holding time compliance;
- QC sample frequency;
- Initial calibration, initial calibration verification (ICV), and continuing calibration verification (CCV) compliance with method-specified criteria;
- Presence or absence of laboratory contamination as demonstrated by laboratory blanks;
- Recovery of surrogates:
- Accuracy and bias as demonstrated by recovery of surrogate spikes, laboratory control sample (LCS), and matrix spike (MS) samples;
- Internal standard recoveries;
- Analytical precision as a relative percent difference (RPD) of analyte concentration between laboratory duplicates or MS/MSD and as the RPD of analyte concentration between field duplicates ;
- Assessment of field contamination as demonstrated by field and trip blanks;

The data validation qualifiers (Section 4.0) applied by the reviewer were recorded in a column adjacent and to the right of the laboratory results. A data validation reason code was also added to each of the reviewer's qualifiers to provide the user with a means to identify which results were qualified and the reason for the qualifiers (Section 5.0). The data were labeled according to *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use (January, 2009).*

3. DEFINITIONS OF QUALIFIERS THAT MAY BE USED DURING DATA VALIDATION

Qualifier	Definition
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. These may not be used for decision making.
U	The analyte was analyzed for, but was not detected above the reported sample quantification limit.
B	The analyte was detected in the sample and an associated blank and the concentration detected in the sample was less than 5 times the concentration detected in the blank.
N	The analyte is a tentatively identified compound.
J	The analyte was positively identified, however, the quantitation is estimated because of discrepancies in meeting certain analyte-specific QC criteria; Or the associated numerical value is the estimated concentration of the analyte in the sample above the MDL and below the LQO.
UJ	The material was analyzed for, but was not detected. However, the result is estimated because of discrepancies in meeting certain analyte-specific QC criteria

4. QUALIFICATION REASON CODES

Reason Code	Definition
01	Sample received outside of 4+/-2 degrees Celsius
01A	Improper sample preservation
02	Holding time exceeded
02A	Extraction
02B	Analysis
03	Instrument performance – outside criteria
03A	BFB
03B	DFTPP
03C	DDT and/or Endrin % breakdown exceeds criteria
03D	Retention time windows
03E	Resolution
04	Initial calibration results outside specified criteria
04A	Compound mean relative response factor (RRF) QC criteria not met
04B	Individual % RSD criteria not met
04C	Regression factor or correlation coefficient >0.995
04D	Compound % D QC criteria for the ICV not met
05	Continuing calibration results outside specified criteria
05A	Compound mean RRF QC criteria not met
05B	Compound % D QC criteria not met
06	Result qualified as a result of the 5x/10x blank correction
06A	Method or preparation blank
06B	ICB or CCB

Reason Code	Definition
06C	ER
06D	TB
06E	FB
07	Surrogate recoveries outside control limits
07A	Sample
07B	Associated method blank or LCS
08	MS/MSD/Duplicate results outside criteria
08A	MS and/or MSD recovery not within control limits (accuracy)
08B	% RPD outside acceptance criteria (precision)
09	Post digestion spike outside criteria (GFAA)
10	Internal standards outside specified control limits
10A	Recovery
10B	Retention time
11	Laboratory control sample recoveries outside specified limits
11A	Recovery
11B	% RPD (if run in duplicate)
12	Interference check standard
13	Serial dilution
14	Tentatively identified compounds
15	Quantification
16	Multiple results available; alternate analysis preferred
17	Field duplicate RPD criteria is exceeded
18	Percent difference between original and second column exceeds QC criteria
19	Professional judgment was used to qualify the data
20	Pesticide clean-up checks
21	Target compound identification
22	Radiological calibration
23	Radiological quantification
24	Reported result and/or lab qualifier revised to reflect validation findings

5. CHAIN OF CUSTODY AND SAMPLE RECEIPT CONDITION DOCUMENTATION

All samples were labeled correctly on both the chain of custody and Form I reports.
The requested analyses were performed according to the specified method.

6. SPECIFIC DATA VALIDATION FINDINGS

Results from these samples may be considered usable with the limitations and exceptions described Sections 6.1 through 7.0

6.1 HOLDING TIMES

QC extraction times for the organic compounds were within the maximum holding time of 7 days and the extracts were analyzed within the QC holding time.

6.2 INITIAL CALIBRATIONS

The sample calculations were acceptable and all RRFs and RSDs were within the QC limits.

6.3 INITIAL CALIBRATION VERIFICATION (ICV)

The ICV calculations were acceptable and were within the QC limits.

6.4 CONTINUING CALIBRATION VERIFICATION

The continuing calibration verifications were within the QC limits.

6.5 LABORATORY BLANKS

No contaminants were found in the method blank.

6.6 SURROGATE RECOVERIES

All surrogate recoveries were within the QC limits.

6.7 FIELD AND EQUIPMENT BLANK

No contaminants were found in the field blanks or in the trip blank.

6.8 LABORATORY CONTROL SAMPLE ACCURACY

All LCS recoveries were within the QC criteria. No qualifiers were required.

6.9 MATRIX SPIKES/ MATRIX SPIKE DUPLICATES

The matrix spike, matrix spike duplicate recoveries and the RPD for the organic constituents from sample MW-08 were within the QC limits.

6.10 INTERNAL STANDARD RECOVERIES

All internal standard recoveries were within the QC criteria and no qualifiers were needed..

6.11 DATA REPORTING AND ANALYTICAL PROCEDURES

The laboratory reported that samples were analyzed at a 2X dilution since foaming was observed at the initial screening of the samples. No undiluted samples were analyzed.

7. FIELD DUPLICATE RESULTS

Samples MW-03 and MW-039, were collected as field duplicates. No detected results were reported for the field duplicates (Table 2).

8. SUMMARY AND CONCLUSIONS

DataCheck evaluated a total of 40 data records from field samples during the validation and none required qualification.

Overall the data was of excellent quality, and all measurements met the measures required to satisfy the project quality control (QC) objectives (precision, accuracy, representativeness, comparability, and completeness) were met. Each of these measures and specific data qualifications are discussed below.

***Precision*:** Precision measures the agreement among two or more replicate measurements. Analytical precision was assessed by comparing the relative percent difference between the analytical results between matrix spike/matrix spike duplicates. Analysis of field duplicate samples also give a measure of the precision associated with sample collection, preservation, and storage, as well as laboratory procedures. The MS/MSD RPDs were within the QC limits and the RPDs for the field duplicates were not calculated since all the organic constituents were non-detects. Overall the precision parameters in the project were met 100 percent of the time.

***Accuracy*:** Accuracy is the closeness of a measured result to an accepted reference values and bias is the systematic over or under-estimation of analytical results. Laboratory control samples, spiked samples, and surrogates were used to assess accuracy. The results for each analyte were checked against the measurement performance criteria approved for use by the laboratories. The organic constituents accuracy parameter was met 100% of the time.

***Representativeness*:** Representativeness expresses the extent to which collected data define site contamination. Sample collection, handling, preservation, and analytical procedures are designed to obtain the most representative sample possible. Designated analytical protocols were followed. Holding times were met for the analysis. Overall, no major problems were identified resulting from analytical failure.

***Comparability*:** The samples were collected and analyzed using appropriate approved methods of sample collection and laboratory analyses. Each met the requirements specified in the project QAPP. All data results were reported correctly and in standard units.

***Completeness*:** Completeness is the amount of valid data compared to the planned amount and is expressed as a percent of the usable data points divided by the total number of analytes for each parameter analyzed. Out of a total of 40 data points, no data points were rejected, resulting in a completeness of 100 percent.

9. REFERENCES

Department of Defense (DOD), 2017. *DoD Quality Systems Manual for Environmental Laboratories,* Version 5.1. January 2017.

EPA, 2014. *EPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, EPA/540-R-014-002.

EPA (U.S. Environmental Protection Agency), January 2009. OSWER 9200-1-85. *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use.* EPA-540/R-08-005.

Table 1. Field Samples Submitted to Emperical Laboratories—Ft Stewart

Sample ID	Collection Date	Sample Matrix	Laboratory SDG/ Batch Number	Laboratory Sample ID	Validation Level
MW-01, MW-02, MW-03, MW-039, MW-04,MW-05, MW-06, MW-07, MW-08, MW-09A	05/08	water	1805062/ 8E14002	…5062-01, …5062-02, …5062-03, …5062-04, …5062-05, …5062-06, …5062-07, …5062-08, …5062-09, …5062-10	IIb

Table 2. Field Duplicate Detections—Ft Stewart

Analyte		Primary Sample	Field Duplicate	Units	RPD-% 30% waters 50% soils/sediments	Qualifier
BTEX Samples MW-03 and MW-039						
All compound were non-detects-no RPDs calculated						

Laboratory Case Narrative and Form 1s

ANALYTICAL LEVEL III DATA PACKAGE
SDG # 1805062

PROJECT NAME: Fort Stewart

SUBMITTAL TO:
Doug Hawn
1006 Floyd Culler Court
Oak Ridge, TN 37830

SUBMITTAL BY:
Empirical Laboratories, LLC (EL)
621 Mainstream Drive, Suite 270
Nashville, TN 37228
Tel (615)345-1115
Fax (866)417-0548

LABORATORY CONTACT PERSON:
Project Manager: Lauren Evans
Tel (615)345-1115
Fax (866)417-0548
Email: levans@empirlabs.com

Original Report Date: May 17, 2018
Report Revision #: N/A
Revision Date: N/A

THIS DOCUMENT MEETS DoD QSM 4.2 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Data Review Manager, Ms. Amy Barnett, is responsible for the final data produced and reported. Her signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.

L-A-B Accredited - Certificate Number L2226 - Testing

Table of Contents

Sample Delivery Group Case Narrative

Receipt Information:

The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

Changes to the Revision:

This is an original submittal of the final report package.

Analytical Information:

All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. Sample preparation and dilution information is provided within the final results report and at the beginning of each form set. The following information is provided specific to individual methods:

Volatile Organic Compounds:

Note – Samples 1805062-01 through -10 were analyzed at a 2x due to the samples foaming during screening. No lower analyses were performed.

No additional anomalies or deviations are noted.

Data Qualifiers:

As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

DL: The detection limit (DL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The DL is supported by the method detection limit (MDL) which is determined from analysis of a sample containing the analyte in a given matrix.

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM 5.0 revisions as the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

LOQ: The Limit of Quantitation is the minimum level, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. This term is further clarified within the DoD QSM 5.0 as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

*****: Exceeding quality control criteria are associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound. For Metals, the qualifier indicates that the serial dilution was outside of the control limits and the compound should be considered estimated due to the presence of interference.

H: The result was analyzed, extracted, or received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the LOQ. One should feel confident that the result is greater than zero and less than the LOQ.

M: Indicates that the sample matrix interfered with the quantitation of the analyte and that the analyte's DL/LOD/LOQ have been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported. If there is greater than a 100% difference indicated on the form 10, the lower of the two values is reported.

Q: The relative percent difference (RPD) and/or percent recovery exceeded limits in the associated Calibration Verification, internal standard, Blank Spike and/or Blank Spike Duplicate.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the DL.

Chromatographic Flags for Manual Integration:

The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.

B: The peak was manually integrated due to resolution or co-elution issues in the original chromatogram.

C: The peak was manually integrated to correct the baseline from the original chromatogram.

D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.

E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

LIMS Definitions / Naming Conventions:

The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase

incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "RE" implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:

I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, the Data Quality Manager, Technical Directors or Project Managers are authorized to sign this Statement of Data Authenticity.

Ms. Amy M. Barnett
Data Review Manager

SDG: 1805062 Project: Ft Stewart

Method BTEX Matrix/No. Samples: Water-10

Validation Samples: MW-01, MW-02, MW-03, MW-039, MW-04, MW-05, MW-06, MW-07, MW-08, MW-09A

Validation conforms to DoD QSM v5.1 (2017)

Data Validation Report Summary

		Status Code	Comments
1.	Sample Preservation, Handling, and Transport	A	
2.	Chain of Custody	A	
3.	Holding Times	A	
4.	GC/MS Tune/Inst Perf	A	
5.	Calibrations	A	
6.	Blanks	A	
7.	Blank Spike/LCS	A	
8.	Matrix Spike	A	
9.	Surrogates	A	
10.	Internal Standards	A	
11.	Compound Identification	A	see comment #1
12.	System Performance	A	
13.	Field QC Samples	A	
14.	Overall Assessment	A	

Status Codes:
A = Acceptable
R = Data Rejected
X = Data acceptable but qualified due to problems
N/A=not applicable for this SDG

Qualifications:

Significant Findings/Recommendations:

#1 All samples were analyzed at 2X due to foaming during screening.

Overall Data Quality:

Acceptable as reported

Validator's Signature: J. Thomas Kitchings Date: 05/23/2018

EMPIRICAL LABORATORIES, LLC - CHAIN OF CUSTODY RECORD

SHIP TO: 621 Mainstream Drive, Suite 270 ♦ Nashville, TN 37228 ♦ 877-345-1113 ♦ (fax) 866-417-0548

35517

1805062 E0209.0029

1805062-01 A

Name	Doug Hawn
Company	SES
Address	1006 Floyd Culler Ct
City	Oak Ridge
State, Zip	TN 37830
Phone	(865) 481-7837
Fax	
E-mail	dhawn@specpro.com

Send Invoice to:

Name	
Company	SAME
Address	
City	
State, Zip	
Phone	
Fax	
E-mail	

Project No./Name: Bldg 419 - E0209.0029

Sampler's (Signature):

Analysis Requirements: BTEX, CN

Lab Use Only:

VOA Headspace	Y	N	NA
Field Filtered	Y	N	NA
Correct Containers	Y	N	NA
Discrepancies	Y	N	NA
Cust. Seals Intact	Y	N	NA
Containers Intact	Y	N	NA

Airbill #:

CAR #:

Lab Use Only Lab #	Date/Time Sampled	Sample Description	Sample Matrix	Comments	No. of Bottles	Lab Use Only Containers/Pres.
01	5/8/18 1345	MW-01	Water		3	
02	1645	MW-02				
03	1400	MW-03				
04	1400	MW-039				
05	1735	MW-04				
06	1625	MW-05				
07	1520	MW-06				
08	1745	MW-07				
09	1845	MW-08		+ MS/MSD	9	
10	1610	MW-09A			3	
11	1830	Rinse-01				
12	1810	Blank-01				

	Date/Time		
Sample Kit Prep'd by: (Signature)		Received By: (Signature)	
Relinquished by: (Signature)	5/9/18 1500	Received By: (Signature)	
Relinquished by: (Signature)		Received By: (Signature)	
Received for Laboratory by: (Signature)	5-10-18	Temperature: 8.50	

REMARKS:

Temp 1.2 +/- CF 0.4 = 0.8 °C

Custody Seals? Y Intact? Y

3440

Fluke

Details:

Page 1 of 2

Cooler No. 1 of 1

Date Shipped 5/9/18

Shipped By FedEx

Turnaround Standard

Distribution: Original and yellow copies accompany sample shipment to laboratory; Pink retained by samplers.

EMPIRICAL LABORATORIES, LLC - CHAIN OF CUSTODY RECORD

35518

SHIP TO: 621 Mainstream Drive, Suite 270 ♦ Nashville, TN 37228 ♦ 877-345-1113 ♦ (fax) 866-417-0548

1805062 E0209.0029

Send Results to:	Send Invoice to:	Analysis Requirements:	Lab Use Only:
Name Doug Hawn	Name	BTEX, CN	VOA Headspace Y N NA
Company SES	Company SAME		Field Filtered Y N NA
Address 1006 Floyd Culler Ct	Address		Correct Containers Y N NA
City Oak Ridge	City		Discrepancies Y N NA
State, Zip TN 37830	State, Zip		Cust. Seals Intact Y N NA
Phone (865) 481-7837	Phone		Containers Intact Y N NA
Fax	Fax		Airbill #:
E-mail dhawn@spectrocnv.com	E-mail		CAR #:
Project No./Name: Bldg 419 - E0209.0029	Sampler's (Signature):		

Lab Use Only Lab #	Date/Time Sampled	Sample Description	Sample Matrix	Comments	No. of Bottles	Lab Use Only Containers/Pres.
13	5/8/18 1345	Trip Blank	Water		2	

IV-19

Sample Kit Prep'd by: (Signature)	Date/Time	Received By: (Signature)	REMARKS:
Relinquished by: (Signature)	Date/Time 5/9/18 1500	Received By: (Signature)	
Relinquished by: (Signature)	Date/Time	Received By: (Signature)	
Received for Laboratory by: (Signature)	Date/Time 5-10-18	Temperature 850	

Details:
Page 2 of 2
Cooler No. 1 of 1
Date Shipped 5/9/18
Shipped By Fed Ex
Turnaround Standard

Distribution: Original and yellow copies accompany sample shipment to laboratory; Pink retained by samplers.

7/16/18

ANALYSIS DATA SHEET

MW-01

Laboratory:	Empirical Laboratories, LLC			SDG:	1805062
Client:	SES, Inc. (S750)			Project:	Fort Stewart
Matrix:	Water	Laboratory ID:	1805062-01	File ID:	0506201B.D
Sampled:	05/08/18 13:45	Prepared:	05/14/18 09:17	Analyzed:	05/14/18 09:17
Solids:		Preparation:	VOC_5030	Dilution:	2
Batch:	8E14002	Sequence:	8E13402	Calibration:	8130002
Instrument:	MS-VOA6				

Rev Qual U

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.500	1.00	2.00	U
100-41-4	Ethylbenzene		0.500	1.00	2.00	U
108-88-3	Toluene		0.500	1.00	2.00	U
1330-20-7	Xylenes (total)		1.50	3.00	6.00	U

Total Target Analytes Reported 4 Project Analytes: 4

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.30	104	75 - 120	
Dibromofluoromethane	30.00	30.73	102	85 - 115	
1.2-Dichloroethane-d4	30.00	29.29	97.6	70 - 120	
Toluene-d8	30.00	32.36	108	85 - 120	

ANALYSIS DATA SHEET

MW-02

Laboratory: Empirical Laboratories, LLC SDG: 1805062

Client: SES, Inc. (S750) Project: Fort Stewart

Matrix: Water Laboratory ID: 1805062-02 File ID: 0506202B.D

Sampled: 05/08/18 16:45 Prepared: 05/14/18 09:43 Analyzed: 05/14/18 09:43

Solids: Preparation: VOC_5030 Dilution: 2

Batch: 8E14002 Sequence: 8E13402 Calibration: 8130002 Instrument: MS-VOA6

Raw Qual U

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.500	1.00	2.00	U
100-41-4	Ethylbenzene		0.500	1.00	2.00	U
108-88-3	Toluene		0.500	1.00	2.00	U
1330-20-7	Xylenes (total)		1.50	3.00	6.00	U

Total Target Analytes Reported 4 Project Analytes: 4

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.65	106	75 - 120	
Dibromofluoromethane	30.00	30.68	102	85 - 115	
1,2-Dichloroethane-d4	30.00	31.05	104	70 - 120	
Toluene-d8	30.00	32.31	108	85 - 120	

ANALYSIS DATA SHEET

MW-03

Laboratory:	Empirical Laboratories, LLC			SDG:	1805062
Client:	SES, Inc. (S750)			Project:	Fort Stewart
Matrix:	Water	Laboratory ID:	1805062-03	File ID:	0506203B.D
Sampled:	05/08/18 14:00	Prepared:	05/14/18 10:08	Analyzed:	05/14/18 10:08
Solids:		Preparation:	VOC_5030	Dilution:	2
Batch:	8E14002	Sequence:	8E13402	Calibration:	8130002

Instrument: MS-VOA6

Rev 2nd U

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.500	1.00	2.00	U
100-41-4	Ethylbenzene		0.500	1.00	2.00	U
108-88-3	Toluene		0.500	1.00	2.00	U
1330-20-7	Xylenes (total)		1.50	3.00	6.00	U

Total Target Analytes Reported 4 Project Analytes: 4

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.93	103	75 - 120	
Dibromofluoromethane	30.00	30.80	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.09	100	70 - 120	
Toluene-d8	30.00	31.27	104	85 - 120	

ANALYSIS DATA SHEET

MW-039

Laboratory:	Empirical Laboratories, LLC			SDG:	1805062
Client:	SES, Inc. (S750)			Project:	Fort Stewart
Matrix:	Water	Laboratory ID:	1805062-04	File ID:	0506204B.D
Sampled:	05/08/18 14:00	Prepared:	05/14/18 10:34	Analyzed:	05/14/18 10:34
Solids:		Preparation:	VOC_5030	Dilution:	2
Batch:	8E14002	Sequence:	8E13402	Calibration:	8130002
Instrument:	MS-VOA6				

Rev Qual U

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.500	1.00	2.00	U
100-41-4	Ethylbenzene		0.500	1.00	2.00	U
108-88-3	Toluene		0.500	1.00	2.00	U
1330-20-7	Xylenes (total)		1.50	3.00	6.00	U

Total Target Analytes Reported 4 Project Analytes: 4

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.32	104	75 - 120	
Dibromofluoromethane	30.00	30.43	101	85 - 115	
1,2-Dichloroethane-d4	30.00	31.25	104	70 - 120	
Toluene-d8	30.00	31.21	104	85 - 120	

ANALYSIS DATA SHEET

MW-04

Laboratory:	Empirical Laboratories, LLC			SDG:	1805062
Client:	SES, Inc. (S750)			Project:	Fort Stewart
Matrix:	Water	Laboratory ID:	1805062-05	File ID:	0506205B.D
Sampled:	05/08/18 17:35	Prepared:	05/14/18 11:00	Analyzed:	05/14/18 11:00
Solids:		Preparation:	VOC_5030	Dilution:	2
Batch:	8E14002	Sequence:	8E13402	Calibration:	8130002
Instrument:	MS-VOA6				

R & J Qual

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.500	1.00	2.00	U
100-41-4	Ethylbenzene	**1.35**	0.500	1.00	2.00	JD
108-88-3	Toluene		0.500	1.00	2.00	U
1330-20-7	Xylenes (total)		1.50	3.00	6.00	U

U J U U

Total Target Analytes Reported 4 Project Analytes: 4

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.98	107	75 - 120	
Dibromofluoromethane	30.00	30.83	103	85 - 115	
1,2-Dichloroethane-d4	30.00	31.10	104	70 - 120	
Toluene-d8	30.00	31.41	105	85 - 120	

ANALYSIS DATA SHEET

MW-05

Laboratory:	Empirical Laboratories, LLC			SDG:	1805062
Client:	SES, Inc. (S750)			Project:	Fort Stewart
Matrix:	Water	Laboratory ID:	1805062-06	File ID:	0506206B.D
Sampled:	05/08/18 16:25	Prepared:	05/14/18 11:26	Analyzed:	05/14/18 11:26
Solids:		Preparation:	VOC_5030	Dilution:	2
Batch:	8E14002	Sequence:	8E13402	Calibration:	8130002
				Instrument:	MS-VOA6

RW Qual U

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.500	1.00	2.00	U
100-41-4	Ethylbenzene		0.500	1.00	2.00	U
108-88-3	Toluene		0.500	1.00	2.00	U
1330-20-7	Xylenes (total)		1.50	3.00	6.00	U

Total Target Analytes Reported 4 Project Analytes: 4

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.66	102	75 - 120	
Dibromofluoromethane	30.00	30.27	101	85 - 115	
1,2-Dichloroethane-d4	30.00	30.16	101	70 - 120	
Toluene-d8	30.00	32.31	108	85 - 120	

ANALYSIS DATA SHEET

MW-06

Laboratory:	Empirical Laboratories, LLC			SDG:	1805062
Client:	SES, Inc. (S750)			Project:	Fort Stewart
Matrix:	Water	Laboratory ID:	1805062-07	File ID:	0506207B.D
Sampled:	05/08/18 15:20	Prepared:	05/14/18 11:51	Analyzed:	05/14/18 11:51
Solids:		Preparation:	VOC_5030	Dilution:	2
Batch:	8E14002	Sequence:	8E13402	Calibration:	8130002
Instrument:	MS-VOA6				

RW 2ug u

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.500	1.00	2.00	U
100-41-4	Ethylbenzene		0.500	1.00	2.00	U
108-88-3	Toluene		0.500	1.00	2.00	U
1330-20-7	Xylenes (total)		1.50	3.00	6.00	U

Total Target Analytes Reported 4 Project Analytes: 4

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.08	104	75 - 120	
Dibromofluoromethane	30.00	31.46	105	85 - 115	
1,2-Dichloroethane-d4	30.00	30.07	100	70 - 120	
Toluene-d8	30.00	31.90	106	85 - 120	

ANALYSIS DATA SHEET

MW-07

Laboratory:	Empirical Laboratories, LLC			SDG:	1805062
Client:	SES, Inc. (S750)			Project:	Fort Stewart
Matrix:	Water	Laboratory ID:	1805062-08	File ID:	0506208B.D
Sampled:	05/08/18 17:45	Prepared:	05/14/18 12:17	Analyzed:	05/14/18 12:17
Solids:		Preparation:	VOC_5030	Dilution:	2
Batch:	8E14002	Sequence:	8E13402	Calibration:	8130002
Instrument:	MS-VOA6				

Rev Dup u

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.500	1.00	2.00	U
100-41-4	Ethylbenzene		0.500	1.00	2.00	U
108-88-3	Toluene		0.500	1.00	2.00	U
1330-20-7	Xylenes (total)		1.50	3.00	6.00	U

Total Target Analytes Reported 4 Project Analytes: 4

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.07	104	75 - 120	
Dibromofluoromethane	30.00	30.65	102	85 - 115	
1,2-Dichloroethane-d4	30.00	30.98	103	70 - 120	
Toluene-d8	30.00	32.56	109	85 - 120	

ANALYSIS DATA SHEET

MW-08

Laboratory:	Empirical Laboratories, LLC			SDG:	1805062
Client:	SES, Inc. (S750)			Project:	Fort Stewart
Matrix:	Water	Laboratory ID:	1805062-09	File ID:	0506209B.D
Sampled:	05/08/18 18:45	Prepared:	05/14/18 12:43	Analyzed:	05/14/18 12:43
Solids:		Preparation:	VOC_5030	Dilution:	2
Batch:	8E14002	Sequence:	8E13402	Calibration:	8130002
Instrument:	MS-VOA6				

Rev Qual U

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.500	1.00	2.00	U
100-41-4	Ethylbenzene		0.500	1.00	2.00	U
108-88-3	Toluene		0.500	1.00	2.00	U
1330-20-7	Xylenes (total)		1.50	3.00	6.00	U

Total Target Analytes Reported 4 Project Analytes: 4

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.25	101	75 - 120	
Dibromofluoromethane	30.00	30.75	102	85 - 115	
1,2-Dichloroethane-d4	30.00	31.01	103	70 - 120	
Toluene-d8	30.00	32.01	107	85 - 120	

ANALYSIS DATA SHEET

MW-09A

Laboratory:	Empirical Laboratories, LLC			SDG:	1805062
Client:	SES, Inc. (S750)			Project:	Fort Stewart
Matrix:	Water	Laboratory ID:	1805062-10	File ID:	0506210B.D
Sampled:	05/08/18 16:10	Prepared:	05/14/18 13:09	Analyzed:	05/14/18 13:09
Solids:		Preparation:	VOC_5030	Dilution:	2
Batch:	8E14002	Sequence:	8E13402	Calibration:	8130002
Instrument:	MS-VOA6				

Rev Qual u

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.500	1.00	2.00	U
100-41-4	Ethylbenzene		0.500	1.00	2.00	U
108-88-3	Toluene		0.500	1.00	2.00	U
1330-20-7	Xylenes (total)		1.50	3.00	6.00	U

Total Target Analytes Reported 4 Project Analytes: 4

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.70	102	75 - 120	
Dibromofluoromethane	30.00	30.45	102	85 - 115	
1,2-Dichloroethane-d4	30.00	30.32	101	70 - 120	
Toluene-d8	30.00	31.46	105	85 - 120	