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(334) 271-7700 • FAX (334) 271-7950

December 29, 2023

**ELECTRONICALLY TRANSMITTED**

Mr. Jason C. Odom  
ESCA Case Manager  
McClellan Development Authority  
4975 Bains Gap Road  
Anniston, Alabama 36205

**RE: ADEM Review and Concurrence:** *Response to Comment for Corrective Measures Effectiveness Reports for Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7), for 2019, 2020, and 2021;* dated October 16, 2023  
Fort McClellan, Calhoun County, Alabama  
Facility I.D. No. AL4210020562

Dear Mr. Odom:

The Alabama Department of Environmental Management (ADEM or the Department) has completed its review of the McClellan Development Authority's (MDA) *Response to Comment for Corrective Measures Effectiveness Reports (CMER) for Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7) for 2019, 2020, and 2021*. Based on this review, MDA has adequately addressed ADEM's comment on the subject CMERs and submitted slip pages incorporating the necessary edits. Therefore, the Department concurs with the Response to Comment and the subject CMERs.

If you have any questions concerning this matter, please contact Mrs. Brandi Little of the Remediation Engineering Section at 334-274-4226 or via email at [blittle@adem.alabama.gov](mailto:blittle@adem.alabama.gov).

Sincerely,



Ashley T. Mastin, Chief  
Governmental Hazardous Waste Branch  
Land Division

ATM/JBR/BCL/mlw

cc: Ms. Lisa Holstein/Army  
Mr. Richard Satkin/Matrix  
Mr. Gerald Hardy/Matrix





Matrix Environmental Services, LLC  
283 Rucker St.  
Anniston, AL 36205  
O 256.847.0780  
F 256.847.0905  
matrixdesigngroup.com

October 16, 2023

Ms. Ashley T. Mastin, Chief  
c/o Mrs. Brandi Little  
Governmental Hazardous Waste Branch Land Division  
Alabama Department of Environmental Management  
P.O. Box 301463  
Montgomery, Alabama 36130-1463

SUBJECT: Response to ADEM Review and Comments dated October 5, 2023, RE:  
*Corrective Measures Effectiveness Reports (CMERs) for Landfill 3, Parcel 80(6)  
and Fill Area Northwest of Reilly Airfield, Parcel 229(7), for 2019, 2020, and 2021*

Dear Ms. Mastin:

On behalf of the McClellan Development Authority (MDA), Matrix Environmental Services, LLC (MES) is pleased to submit the Response to ADEM Review and Comments dated October 5, 2023, RE: *Corrective Measures Effectiveness Reports for Landfill, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)* for 2019, 2020, and 2021. Revised pages to each CMER is included herein. Hard copies of the revised pages to be inserted into the original documents will be mailed.

Please contact me at (256) 847-0780 should you have any questions or comments.

Sincerely,  
**MATRIX ENVIRONMENTAL SERVICES, LLC**

A handwritten signature in black ink that reads "Richard Satkin".

Richard Satkin, P.G.  
McClellan Program Manager

Enclosure

CC: Mrs. Brandi Little, ADEM (two paper copies)  
Mr. Jason Odom, MDA (transmittal letter only)  
Ms. Lisa Holstein, U.S. Army (one paper copy)  
MES Files (one paper copy)

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Sacramento, CA | Tamuning, GUAM | Texarkana, TX | Washington, DC

## **Response to ADEM Review and Comments dated October 5, 2023**

*Corrective Measures Effectiveness Reports (CMERs) for Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7), for 2019, 2020, and 2021*

---

### **General Comment:**

As stated in ADEM's June 14, 2019 comment letter for the Corrective Measures Implementation Report (CMIR), additional transition zone wells should be installed west of the site (i.e., West of Highway 21). These wells are necessary to: 1) define the western boundary of the plume in the transition zone; 2) verify that the groundwater flow direction is controlled by the fault lying west of Highway 21; and, 3) verify that the groundwater plume in the transition zone is not migrating to offsite properties west of the fault. Furthermore, samples from additional downgradient transition zone wells would help assess the effectiveness of the corrective measures on offsite groundwater. Please address.

### **MDA Response:**

Per ADEM's request, two transition wells were installed west of the site in December 2021. These wells were sampled and then abandoned. Matrix notified ADEM of the planned well abandonment in our February 23, 2022 transmittal letter for the Responses to ADEM Review and Evaluations dated June 22, 2023 on the CMIR. A notation of the request for additional wells has been added to the 2019, 2020, and 2021 Corrective Measures Effective Reports.

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October 5, 2023

**ELECTRONICALLY TRANSMITTED**

Mr. Jason C. Odom  
ESCA Case Manager  
McClellan Development Authority  
4975 Bains Gap Road  
Anniston, Alabama 36205

**RE: ADEM Review and Comments:** *Corrective Measures Effectiveness Reports (CMERs) for Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7), for 2019, 2020, and 2021*  
Fort McClellan, Calhoun County, Alabama  
Facility I.D. No. AL4210020562

Dear Mr. Odom:

The Alabama Department of Environmental Management (ADEM or the Department) has completed the review of the aforementioned documents and has determined that the McClellan Development Authority's (MDA) *CMERs for Landfill 3 and FANWR* are incomplete and additional information and/or data will be required.

Comments regarding MDA's CMERs are provided in the attached document. Responses may be submitted in the form of a revised CMER or appropriate revised pages and figures to be inserted in the original submission. If the MDA chooses to submit revised pages, please date or code each page and figure. For example, **25(r-11/15/23)** would be page 25 revised November 15, 2023.

To facilitate the Department's review, please return a copy of the Department's comments with annotations in the left margin, which identify the CMERs revised pages, figures, tables, *etc.* where the MDA's response to each comment item is recorded.



**Mr. Jason Odom**

**October 5, 2023**

**Page 2 of 3**

If you have any questions concerning this matter, please contact Mrs. Brandi Little of the Remediation Engineering Section at 334-274-4226 or via email at [blittle@adem.alabama.gov](mailto:blittle@adem.alabama.gov).

Sincerely,



Ashley T. Mastin, Chief  
Governmental Hazardous Waste Branch  
Land Division

Attachment

ATM/JBR/BCL/jlm

cc: Mr. Justin Rigdon/ADEM  
Ms. Lisa Holstein/Army  
Mr. Richard Satkin/Matrix  
Mr. Gerald Hardy/Matrix

**ATTACHMENT**  
**ADEM Review Comments**  
***CMERs for Monitoring Events, Landfill 3***  
***and FANWR, Parcels 80(6) and 229(7)***  
***for 2019, 2020 and 2021***  
**Fort McClellan, Alabama**

---

***General Comment***

1. As stated in ADEM's June 14, 2019 comment letter for the Corrective Measures Implementation Report (CMIR), additional transition zone wells should be installed west of the site (i.e., West of Highway 21). These wells are necessary to: 1) define the western boundary of the plume in the transition zone; 2) verify that the groundwater flow direction is controlled by the fault lying west of Highway 21; and, 3) verify that the groundwater plume in the transition zone is not migrating to offsite properties west of the fault. Furthermore, samples from additional downgradient transition zone wells would help assess the effectiveness of the corrective measures on offsite groundwater. Please address.

**Corrective Measures Effectiveness Report  
November 2019 to May 2020 Monitoring Events  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly  
Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

Prepared for:



**MCCLELLAN**  
DEVELOPMENT AUTHORITY

**McClellan Development Authority  
Anniston, Alabama**

Prepared by:



**283 Rucker Street  
Anniston, AL 36205**

**(256) 847-0780  
Fax (256) 874-0905**

**September 2020  
Revised October 2023**

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## LIST OF ACRONYMS

|               |                                                                                                                                                             |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1,1,2,2 – PCA | 1,1,2,2 - Tetrachlorethane                                                                                                                                  |
| 1,1,2 – TCA   | 1,1,2 - Trichloroethane                                                                                                                                     |
| ADEM          | Alabama Department of Environmental Management                                                                                                              |
| CA            | Cleanup Agreement                                                                                                                                           |
| Cis-1,2 – DCE | Cis-1,2 - Dichloroethene                                                                                                                                    |
| CMER          | Corrective Measures Effectiveness Report                                                                                                                    |
| CMIP          | Corrective Measures Implementation Report                                                                                                                   |
| COC           | Constituent of Concern                                                                                                                                      |
| DHG           | Dissolved Hydrocarbon Gas                                                                                                                                   |
| DO            | Dissolved oxygen                                                                                                                                            |
| DQS           | Data Quality Summary                                                                                                                                        |
| EBS           | Environmental Baseline Study                                                                                                                                |
| EE/CA         | Engineering Evaluation and Cost Analysis                                                                                                                    |
| ESE           | Environmental Science & Engineering, Inc.                                                                                                                   |
| EVO           | Emulsified vegetable oil                                                                                                                                    |
| FANWR         | Fill Area Northwest of Reilly Airfield, Parcel 229(7)                                                                                                       |
| Final RFI     | Final Resource Conservation Recovery Act Facility Investigation Landfill<br>3, Parcel 80(6) and Fill Area Northwest of Reilly, Parcel 229(7) (MES,<br>2008) |
| FLUTe         | Flexible Underground Technologies                                                                                                                           |
| GPS           | Groundwater Protection Standard                                                                                                                             |
| IDW           | Investigation Derived Waste                                                                                                                                 |
| ISB           | In situ bioremediation                                                                                                                                      |
| IT            | IT Corporation                                                                                                                                              |
| LF3           | Landfill 3, Parcel 80(6)                                                                                                                                    |
| LUC           | Land use control                                                                                                                                            |
| McClellan     | Former Fort McClellan                                                                                                                                       |
| MCL           | Maximum Contaminant Level                                                                                                                                   |
| MDA           | McClellan Development Authority                                                                                                                             |
| MES           | Matrix Environmental Services, LLC                                                                                                                          |
| ORP           | Oxidation-reduction potential                                                                                                                               |
| PERC          | Tetrachloroethene                                                                                                                                           |
| QA            | Quality Assurance                                                                                                                                           |
| QAP           | Quality Assurance Plan                                                                                                                                      |
| RBTL          | Risk-Based Target Level                                                                                                                                     |
| RCRA          | Resource Conservation Recovery Act                                                                                                                          |
| RFI           | RCRA Facility Investigation                                                                                                                                 |
| RI            | Remedial Investigation                                                                                                                                      |
| SAIC          | Science Applications International Corporation                                                                                                              |
| SAP           | Sampling and Analysis Plan                                                                                                                                  |
| Shaw          | Shaw Environmental, Inc.                                                                                                                                    |
| SI            | Site Investigation                                                                                                                                          |
| Site          | Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel<br>229(7)                                                                       |

|     |                               |
|-----|-------------------------------|
| TCE | Trichloroethene               |
| TDS | Total Dissolved Solids        |
| TOC | Total Organic Carbon          |
| UIC | Underground Injection Control |
| VC  | Vinyl Chloride                |
| VOC | Volatile Organic Compound     |

## **EXECUTIVE SUMMARY**

This Corrective Measures Effectiveness Report (CMER) presents information regarding groundwater remediation at Landfill 3 (LF3), Parcel 80(6) and Fill Area Northwest of Reilly Airfield (FANWR), Parcel 229(7) (collectively referred to as the Site) located at the former Fort McClellan (McClellan) in Anniston, Alabama. Figure 1 shows a parcel location map of the Site. This report was prepared by Matrix Environmental Services, LLC (MES) on behalf of the McClellan Development Authority (MDA). The purpose of this CMER is to document the effectiveness of the remedial action for contaminated groundwater at the Site during the reporting period from November 2019 to May 2020.

Previous investigations at the Site identified 1,1,2,2-tetrachloroethane (1,1,2,2-PCA), 1,1,2-trichloroethane (1,1,2-TCA), tetrachloroethene (PERC), trichloroethene (TCE) and vinyl chloride (VC) as the primary corrective action constituents of concern (COCs) in groundwater requiring corrective measures. In situ bioremediation (ISB) was implemented from March 20 through May 23, 2017 for the remediation of the volatile organic compounds (VOCs) through a transect of 17 injection wells. The injected solutions included the following permitted amendments: (i) a custom formulation of SRS<sup>®</sup>-SD, an emulsified vegetable oil (EVO) product pre-mixed with the pH buffer sodium bicarbonate (i.e., baking soda); (ii) KB-1<sup>®</sup> Primer, a blend of amino acids, potassium bicarbonate, and sodium sulfite; (iii) KB-1<sup>®</sup> Plus (bioaugmentation culture [bacterial]); and (iv) potable water, in both aerobic and anaerobic states.

Semi-annual sampling was performed in November 2019 and May 2020 during this reporting period. To aid in assessing groundwater flow at the Site, horizontal and vertical hydraulic gradients were calculated and groundwater elevation maps with estimated potentiometric contours for November 2019 were constructed for the residuum zone, transition zone, fractured bedrock, and deep fractured bedrock. Groundwater elevation maps with estimated potentiometric contours for May 2020 were constructed for the transition zone, fractured bedrock, and deep fractured bedrock.

Groundwater samples were collected in November 2019 and May 2020 in select on-site and off-site residuum, transition, bedrock, and deep bedrock monitoring wells and analyzed for VOCs, dissolved hydrocarbon gases (DHGs), total organic carbon (TOC), and field parameters in accordance with the 2018 Corrective Measures Implementation Report (CMIR) which includes all the wells in the Cleanup Agreement. The analytical results for the primary COCs were compared to historical analytical results from previous sampling events and to groundwater protection standards (GPS). During this reporting period, three of the five COCs (1,1,2,2-PCA, TCE, VC) exceeded the GPS in off-site groundwater samples and four of the five COCs exceeded the GPS in the on-site groundwater samples (1,1,2,2-PCA, TCE, PERC, VC). No GPSs were exceeded in on-site wells OLF-G19, OLF-G72, OLF-G75, and PPMP-229-GP12 and off-site wells OLF-G18, OLF-G21, OLF-G24, OLF-G26, OLF-G31, OLF-G32, OLF-G35, OLF-G36, OLF-G47, OLF-G48, OLF-G49, OLF-G52 and OLF-G70.

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## **1.0 INTRODUCTION**

This Corrective Measures Effectiveness Report (CMER) presents information regarding groundwater remediation at Landfill 3 (LF3), Parcel 80(6) and Fill Area Northwest of Reilly Airfield (FANWR), Parcel 229(7) (collectively referred to as the Site) located at the former Fort McClellan (McClellan) in Anniston, Alabama. Figure 1 shows a parcel location map of the Site. This report was prepared by Matrix Environmental Services, LLC (MES) on behalf of the McClellan Development Authority (MDA). The purpose of this CMER is to document the effectiveness of the remedial action for contaminated groundwater at the Site during the reporting period from November 2019 to May 2020.

### **1.1 Report Organization**

This CMER is organized as follows:

- Section 1.0 - summarizes the project background, purpose of the CMER, and report organization
- Section 2.0 - presents a summary of the Site characterization
- Section 3.0 - describes the activities conducted during this reporting period
- Section 4.0 - presents the results during this reporting period
- Section 5.0 - presents the summary, conclusions, and recommendations
- Section 6.0 - provides the references cited in this report
- Tables that support the CMER
- Figures that support the CMER
- Appendix A contains the groundwater levels and sample collection logs
- Appendix B contains the chain-of-custody records
- Appendix C contains the data quality summary
- Appendix D contains the analytical data and laboratory reports

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## **2.0 SITE CHARACTERIZATION**

This section summarizes the Site description and physical setting, land use, previous investigations, and corrective measures activities performed at the Site.

### **2.1 Site Description and Physical Setting Summary**

LF3 and FANWR are located in the northwestern corner of McClellan just east of Alabama State Highway 21, approximately 4.5 miles north-northeast of central Anniston, Alabama; 1.3 miles east of central Weaver, Alabama; and 3.9 miles south-southwest of Jacksonville, Alabama. Land in the vicinity of LF3 and the FANWR is generally undeveloped, with limited residential and commercial land use clustered along Alabama State Highway 21.

LF3 is approximately 23 acres in size. The landfill is bounded by Alabama State Highway 21 to the west, Gobbler Road to the east, wooded areas and the boundary of McClellan to the north, and wetlands and Cave Creek to the south. LF3 served as the primary sanitary landfill at McClellan from 1946 to 1967. Reports indicate that landfill received residential/municipal refuse, industrial wastes (i.e., empty pesticide containers, paint containers, waste oil), and construction debris. The landfill is unlined and was constructed using trench/fill operations with waste placed in trenches to an average depth of 22 feet (ft).

FANWR is approximately 8 acres in size and is also located in the northwestern corner of McClellan, adjacent to the former Reilly Airfield and west-southwest of Reilly Lake. The northeastern boundary of FANWR is adjacent to small streams and forested wetlands that form the headwaters of Reilly Lake. FANWR was first identified from an aerial photograph taken in 1954. Disposal practices at the FANWR are not known. Wastes reportedly observed in the unit include paint containers, fluorescent bulbs and ballasts, waste oils, and construction debris. The maximum waste depth encountered during field investigation activities was 15 ft.

Both LF3 and FANWR were operated by the U.S. Army and closed prior to the existence of any Federal or State environmental regulations governing landfills. Neither LF3 or FANWR were closed with an engineered cap or cover system. To comply with the substantive intent of Federal and State environmental regulations for historical (i.e., legacy) landfills, an engineered cover was constructed at both locations (MES, 2010). This included the placement of a low permeability soil cover designed to minimize future direct exposure to wastes which were disposed of at each location, to promote drainage while controlling erosion, to minimize leaching of contaminants to groundwater, and to function with low maintenance requirements.

### **2.2 Land Use and Land Use Controls**

Proposed future land use for the Site is categorized as industrial conservation district in accordance with City of Anniston McClellan, Overlay Redevelopment District, April 2012 prepared by The East Alabama Regional Planning and Development Commission.

Environmental Covenant Number FY11-01.00 filed in Calhoun County Probate on September 23, 2011 documents the land use control measures placed on FANWR to ensure there are no unacceptable risks to human health and the environment and to prevent exposure to

contaminants. Land use controls include: required maintenance and repair of the engineered cap; signs and monuments to outline the parcel boundary; prohibition of residential use, digging or excavation and installation of any well for extraction of groundwater for purposes of consumptive or other uses; and use of the property is restricted to surface use only.

### 2.3 Summary of Previous Investigations

Numerous investigations have been performed to evaluate site conditions at LF3 and FANWR. These investigations can be summarized as follows:

- 1993 Site Investigation at LF 3 (Science Applications International Corporation [SAIC])
- 1994 – 1995 Remedial Investigation (RI) by SAIC
- 1998 Environmental Baseline Study (EBS) performed by Environmental Science & Engineering, Inc. (ESE)
- 1999 FANWR SI by IT
- 2002 Fill Area Definition Investigations at LF3 and FANWR by IT
- 2002 Engineering Evaluation/Cost Analysis performed by IT
- 2001 – 2003 Phase I-III Supplemental RIs performed by Shaw Environmental, Inc. (Shaw)
- 2002 – 2006 miscellaneous wetland determinations, fill area delineation, and landfill gas investigation performed by Shaw, MES, and Geosyntec
- 2008 RCRA Facility Investigation (RFI) performed by MES
- 2008 Corrective Measures Implementation Plan (CMIP) and 2011 CMIP Addendum for Groundwater performed by MES and Geosyntec included pre-design investigations in preparation of the in situ bioremediation (ISB) remedy design
- 2018 Corrective Measures Implementation Report (CMIR) for Groundwater by MES and Geosyntec included additional pre-design investigations for the ISB design performed after the submission of the CMIP and CMIP Addendum

### 2.4 Corrective Measures

Based on the risk assessment performed in the *Final RFI* (MES, 2008), the primary corrective action constituents of concern (COCs) in groundwater are 1,1,2,2-tetrachloroethane (1,1,2,2-PCA), 1,1,2-trichloroethane (1,1,2-TCA), tetrachloroethene (PERC), trichloroethene (TCE) and vinyl chloride (VC). A secondary tier of ancillary COCs was also identified; these COCs play a minor role in groundwater risk levels and mitigation of these COCs is not expected to materially affect groundwater risk levels. Based on the data assessment presented in the *Final RFI* (MES, 2008), there were no complete surface water, sediment, or soil exposure pathways for the human or ecological receptors at the Site.

Groundwater in situ bioremediation (ISB) corrective measures was implemented between March and May 2017 for treatment of chlorinated VOCs in accordance with the Underground Injection Control (UIC) permit (ALSI9908665; dated January 27, 2017). A total volume of 437,710

gallons of amendment solutions were injected. The following amendments were injected into 17 injection wells: (i) a custom formulation of SRS<sup>®</sup>-SD, a food-grade, biodegradable emulsified vegetable oil (EVO) pre-mixed with pH buffer sodium bicarbonate (i.e., baking soda); (ii) KB-1<sup>®</sup> Primer a blend of amino acids, potassium bicarbonate, and sodium sulfite; (iii) KB-1<sup>®</sup> Plus (bioaugmentation culture [bacteria]); and (iv) potable water, in both aerobic and anaerobic states. Details of the corrective measures activities are documented in the *Corrective Measures Implementation Report (CMIR) For Groundwater, Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7) (CMIR)* (MES, 2018).

The goal of ISB is to create a biologically active zone in the immediate vicinity of the injection transect to promote favorable geochemical conditions to achieve the following corrective action objectives:

- protect downgradient groundwater in a residential scenario at the point of exposure well OLF-G52
- protect City of Weaver and City of Jacksonville drinking water supplies
- control ongoing contributions of solvent mass to the off-Site plume
- reduce solvent mass and plume footprint within the off-Site plume

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### 3.0 SUMMARY OF ACTIVITIES

This section describes the groundwater sampling activities performed during this reporting period. Table 3-1 summarizes the wells and analytes sampled.

**Table 3-1: Groundwater Monitoring Summary, November 2019 to May 2020  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| Well ID        | November 2019    |      |      |     | May 2020         |      |      |     |
|----------------|------------------|------|------|-----|------------------|------|------|-----|
|                | Field Parameters | VOCs | DHGs | TOC | Field Parameters | VOCs | DHGs | TOC |
| OLF-G07        | x                | x    |      |     | x                | x    |      |     |
| OLF-G12        | x                | x    |      |     | x                | x    | x    |     |
| OLF-G18        | x                | x    |      |     | x                | x    |      |     |
| OLF-G19        | x                | x    |      |     | x                | x    |      |     |
| OLF-G20        | x                | x    |      |     | x                | x    |      |     |
| OLF-G21        | x                | x    |      |     | x                | x    |      |     |
| OLF-G22        | x                | x    |      |     | x                | x    |      |     |
| OLF-G23        | x                | x    |      |     | x                | x    | x    |     |
| OLF-G24        | x                | x    |      |     | x                | x    |      |     |
| OLF-G26        | x                | x    |      |     | x                | x    |      |     |
| OLF-G31        | x                | x    |      |     | x                | x    |      |     |
| OLF-G32        | x                | x    |      |     | x                | x    |      |     |
| OLF-G35        | x                | x    |      |     | x                | x    |      |     |
| OLF-G36        | x                | x    |      |     | x                | x    |      |     |
| OLF-G42        | x                | x    |      |     | x                | x    |      |     |
| OLF-G43        | x                | x    |      |     | x                | x    |      |     |
| OLF-G47        | x                | x    |      |     | x                | x    |      |     |
| OLF-G48        | x                | x    |      |     | x                | x    |      |     |
| OLF-G49        | x                | x    |      |     | x                | x    |      |     |
| OLF-G50        | x                | x    |      |     | x                | x    |      |     |
| OLF-G51        | x                | x    |      |     | x                | x    |      |     |
| OLF-G52        | x                | x    |      |     | x                | x    |      |     |
| OLF-G70        | x                | x    |      |     | x                | x    |      |     |
| OLF-G71 Port 1 | x                | x    |      |     | x                | x    |      |     |
| OLF-G71 Port 2 | x                | x    |      |     | x                | x    |      |     |
| OLF-G71 Port 3 | x                | x    |      |     | x                | x    |      |     |
| OLF-G71 Port 4 | x                | x    |      |     | x                | x    |      |     |
| OLF-G71 Port 5 | x                | x    |      |     | x                | x    |      |     |
| OLF-G72 Port 1 | x                | x    | x    | x   | x                | x    | x    | x   |
| OLF-G72 Port 2 | x                | x    | x    | x   | x                | x    | x    | x   |
| OLF-G72 Port 3 | x                | x    | x    | x   | x                | x    | x    | x   |
| OLF-G72 Port 4 | x                | x    | x    | x   | x                | x    | x    | x   |
| OLF-G72 Port 5 | x                | x    | x    | x   | x                | x    | x    | x   |
| OLF-G72 Port 6 | x                | x    | x    | x   | x                | x    | x    | x   |
| OLF-G73 Port 1 | x                | x    | x    | x   | x                | x    | x    | x   |
| OLF-G73 Port 2 | x                | x    | x    | x   | x                | x    | x    | x   |
| OLF-G73 Port 3 | x                | x    | x    | x   | x                | x    | x    | x   |
| OLF-G73 Port 4 | x                | x    | x    | x   | x                | x    | x    | x   |

|                  |   |   |   |   |   |   |   |   |
|------------------|---|---|---|---|---|---|---|---|
| OLF-G73 Port 5   | x | x | x | x | x | x | x | x |
| OLF-G74 Port 1   | x | x |   |   | x | x |   | x |
| OLF-G74 Port 2   | x | x |   |   | x | x |   | x |
| OLF-G74 Port 3   | x | x |   |   | x | x |   | x |
| OLF-G74 Port 4   | x | x |   |   | x | x |   | x |
| OLF-G74 Port 5   | x | x |   |   | x | x |   | x |
| OLF-G75 Screen 1 | x | x |   |   | x | x |   |   |
| OLF-G75 Screen 2 | x | x |   |   | x | x |   |   |
| OLF-G75 Screen 3 | x | x |   |   | x | x |   |   |
| OLF-G75 Screen 4 | x | x |   |   | x | x |   |   |
| OLF-G75 Screen 5 | x | x |   |   | x | x |   |   |
| OLF-G75 Screen 6 | x | x |   |   | x | x |   |   |
| OLF-G77          | x | x | x | x | x | x | x | x |
| OLF-G78          | x | x |   |   | x | x |   |   |
| PPMP-229-GP12    | x | x |   |   | x | x |   |   |

Note: OLF-G16 was dry in November 2019 and insufficient volume for sample in May 2020.

### 3.1 Groundwater Sampling

Figure 2 shows locations of the monitoring wells and injection wells at the Site. Before groundwater samples were collected, water levels were measured to the nearest hundredth of a foot using a Solinst™ water level indicator and recorded. Depth to water measurements at the multi-level (Flexible Liner Underground Technologies (FLUTe) wells were collected from within the sample tubing of each FLUTe port following the manufacture's procedures using a narrow-diameter Solinst™ water level indicator and recorded.

Groundwater samples from conventional monitoring wells were collected using low-flow sampling procedures, i.e., using an adjustable rate pump to remove water from the screened interval at a rate that produces minimal drawdown, as well as turbidity in the sample. Teflon tubing leading from the discharge side of the submersible pump was connected to a flow-through cell equipped with either a YSI 556 Multiparameter Meter or YSI Professional Plus to measure chemical and physical parameters. These measurements were used to indicate when groundwater quality stabilized and sampling could begin. Groundwater samples from FLUTe wells were collected using inert nitrogen gas to purge water from the sample port following the manufacture's procedures.

Chemical and physical field screening parameters included pH, conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), total dissolved solids (TDS), turbidity, and temperature. Groundwater levels and volume of groundwater removed were also recorded. The monitoring well sample collection logs are provided in Appendix A.

Laboratory-supplied sample bottles were filled, labeled, placed in a chilled cooler, and shipped under chain-of-custody procedures to TestAmerica Laboratories, Inc. (TestAmerica). The chain-of-custody forms for the groundwater samples collected during the sampling events are provided in Appendix B.

### 3.2 Management of Investigation Derived Waste

Investigative derived waste (IDW) was managed as described in the *SAP* (MES, 2016). The aqueous IDW generated during the groundwater sampling was collected and containerized in a 55-gallon drum stored onsite.

### **3.3 Data Quality Review**

MES reviewed the analytical data for the groundwater samples in accordance with the *Quality Assurance Plan (QAP)* (MES, 2005) to assess compliance with the Quality Assurance (QA) objectives, and to assess hard copy and electronic deliverable consistency and integrity. The Data Quality Summary (DQS) is included in Appendix C. The analytical data and laboratory reports are included in Appendix D.

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## **4.0 RESULTS FROM REPORTING PERIOD**

This section discusses results from groundwater sampling conducted at the Site during the November 2019 – May 2020 reporting period. Two sampling events were conducted during this reporting period as designated in the CMIR (Table 7 – Performance and Monitoring Program) and met the requirements for monitoring as specified in the Cleanup Agreement (Table V.1).

### **4.1 Groundwater Sampling**

This section discusses the results of the groundwater sampling events at the Site.

#### **4.1.1 Groundwater Levels**

Groundwater elevations measured in the residuum, transition, bedrock, and deep bedrock monitoring wells during the November 2019 and May 2020 groundwater sampling events are presented in Table 4-1. Groundwater elevation maps with estimated potentiometric contours for November 2019 and May 2020 for residuum zone, transition zone, fractured bedrock and deep fractured bedrock are presented in Figures 3 – 6.

Regional groundwater flow directions in residuum, transition, and bedrock zones typically follow topography, which at the Site generally slopes gently towards the north. The main geologic influence on local groundwater flow is the inferred fault located west of the Site that roughly parallels Alabama State Highway 21. Groundwater in the transition zone shows essentially uniform northwesterly flow towards the inferred splay fault. Groundwater within the fractured bedrock at the Site generally flows north-northwest toward the inferred fault then follows along the path of the fault toward the north-northeast. On the northwest side of the fault, local groundwater also flows toward the fault before following the fault toward the north-northeast.

To further aid in assessing groundwater flow at the Site, horizontal and vertical hydraulic gradients were calculated for November 2019 and are presented in Tables 4-2. The horizontal hydraulic gradients in November 2019 in the residuum, transition and bedrock zones ranged from 0.007 ft/ft to 0.033 ft/ft with the highest hydraulic gradients measured in the transition zone. The horizontal hydraulic gradients in May 2020 in the residuum, transition and bedrock zones ranged from 0.009 ft/ft to 0.047 ft/ft with the highest hydraulic gradients measured in the transition zone.

Vertical hydraulic gradients in November 2019 between the residuum, transition zone, and fractured bedrock ranged from -0.148 ft /ft to 0.193 ft/ft. The strongest upward vertical gradient (-0.148 ft/ft) was observed between bedrock well OLF-G69 and transition well OLF-G68. The strongest downward vertical gradient (0.193 ft/ft) was observed between residuum well OLF-G58 and transition well OLF-G68. The convergent vertical gradients may indicate that the transition zone has greater groundwater flow in this area, drawing groundwater from zones above and below the transitional geology. Vertical hydraulic gradients in May 2020 between the residuum, transition zone, and fractured bedrock ranged from -0.157 ft /ft to 0.199 ft/ft. The strongest upward vertical gradient (-0.157 ft/ft) was observed between bedrock well OLF-G47

and deep bedrock OLF-G48. The strongest downward vertical gradient (0.199 ft/ft) was observed between transition well OLF-G04 and bedrock well OLF-G42.

#### **4.1.2 Groundwater Field Parameter Results**

Measurements of field screening parameters, including pH, conductivity, DO, ORP, TDS, turbidity, and temperature, were used to indicate when groundwater quality had stabilized and sampling could begin during the November 2019 and May 2020 groundwater sampling events and are presented in Table 4-4.

#### **4.1.3 Analytical Data and Data Quality Review**

The analytical data and laboratory reports for the November 2019 and May 2020 sampling events are provided in Appendix D. Appendix C provides the DQS. MES reviewed the analytical data in accordance with the QAP (MES, 2005). Based on the data quality review, the analytical data generated for these monitoring events are adequate to fulfill program objectives and are suitable for preparation of this report. A more detailed discussion of the analytical results can be found in the DQS.

#### **4.1.4 Summary of Groundwater Analytical Results**

The primary COC analytical results for the November 2019 and May 2020 groundwater sampling events, along with historical analytical results from previous sampling events, for on-site and off-site wells are shown in Tables 4-5 and 4-6, respectively. The COC concentrations were compared to the groundwater protection standards (GPS). The GPS for on-site wells is the groundskeeper risk-based target level (RBTL) and in off-site wells is the residential RBTL, except in cases where the RBTL is less than the maximum contaminant level (MCL), the MCL is the GPS. During this reporting period, three of the five COCs (1,1,2,2-PCA, TCE, VC) exceeded the GPS in off-site groundwater samples collected and four of the five COCs exceeded the GPS in the on-site groundwater samples (1,1,2,2-PCA, TCE, PERC, VC). Elevated DHGs (Appendix D) were observed in on-site multi-level wells OLF-G72 and OLF-G73, located downgradient of the injection transect indicating ongoing dichlorination of the primary COCs.

### **4.2 Distribution of Corrective Action COCs in Groundwater**

The distribution of the primary COCs during the November 2019 and May 2020 sampling events are shown for on-site and off-site wells in Figures 7 and 8, respectively. In the on-site wells, 1,1,2,2-PCA GPS was exceeded in OLF-G07, and OLF-G78 (May 2020). VC GPS was exceeded in OLF-G20 and OLF-G42 (November 2019 only), OLF-G71, OLF-G73 (November 2019 only), 1,1,2,2 – PCA and VC GPSs were exceeded in OLF-G74. Well OLF-G77 exceeded GPSs for 1,1,2,2 – PCA, PERC, TCE and VC. No GPSs were exceeded in wells OLF-G19, OLF-G72, OLF-G75 and PPMP-229-GP12.

In the off-site wells, 1,1,2,2 – PCA, TCE, and VC GPSs were exceeded in OLF-G23. Wells OLF-G12, OLF-G22, OLF-G33 and OLF-G50 exceeded the GPS for 1,1,2,2-PCA and TCE. Wells OLF-G43 (November 2019 only) and OLF-G51 (November 2019 only) exceeded the GPS

for 1,1,2,2-PCA. No GPSs were exceeded in wells OLF-G18, OLF-G21, OLF-G24, OLF-G26, OLF-G31, OLF-G32, OLF-G35, OLF-G36, OLF-G47, OLF-G48, OLF-G49, OLF-G52 and OLF-G70. Off-site well COC concentrations during this reporting period are similar to historical concentrations and is expected to show gradual improvements over time from the ISB corrective measures effect of decreasing the continued contribution of solvents to off-site groundwater and the effects of natural attenuation processes of dilution, diffusion, and sorption.

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## **5.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS**

This section summarizes the activities performed during the reporting period from November 2019 to May 2020 and presents the results, conclusions, and recommendations.

### **5.1 Summary of Activities**

Activities conducted at the Site included:

- Collected groundwater level measurements and field parameters during November 2019 and May 2020 sampling events
- Collected groundwater samples from select wells for VOCs, DHGs and TOC
- Compared analytical results to GPSs

### **5.2 Summary of Results**

Three of the five COCs (1,1,2,2-PCA, TCE, VC) exceeded the GPS in off-site groundwater samples and four of the five COCs exceeded the GPS in the on-site groundwater samples (1,1,2,2-PCA, TCE, PERC, VC). No GPSs were exceeded in on-site wells OLF-G19, OLF-G72, OLF-G75, and PPMP-229-GP12 and off-site wells OLF-G18, OLF-G21, OLF-G24, OLF-G26, OLF-G31, OLF-G32, OLF-G35, OLF-G36, OLF-G47, OLF-G48, OLF-G49, OLF-G52 and OLF-G70.

### **5.3 Conclusions and Recommendations**

One year of semi-annual monitoring was conducted as specified in the Cleanup Agreement. The presence of DHGs in on-site multi-level wells OLF-G72 and OLF-G73, located downgradient of the injection transect, indicate favorable geochemical conditions have been established for dichlorination of the primary COCs and is occurring at the Site. MDA will submit a CMIP modification request to switch to annual monitoring but until then will continue with semiannual monitoring until receipt of concurrence on the CMIP modification.

We note ADEM has requested the installation of additional transition wells be located west of the site in their comments dated June 14, 2019 on the CMIR.

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## Tables

**Table 4-1: Groundwater Elevations,  
November 2019 to May 2020  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| Well ID              | Well Type    | Measurement Date | Ground Surface Elevation (feet) | Top of Casing Elevation (feet) | Depth to Water (feet BTOC) | Groundwater Elevation (feet) |
|----------------------|--------------|------------------|---------------------------------|--------------------------------|----------------------------|------------------------------|
| <b>November 2019</b> |              |                  |                                 |                                |                            |                              |
| LF4-MW01             | Residuum     | 11/6/2019        | 737.13                          | 739.79                         | 24.43                      | 715.36                       |
| LF4-MW02             | Residuum     | 11/6/2019        | 738.50                          | 738.50                         | 27.35                      | 711.15                       |
| LF4-MW03             | Residuum     | 11/6/2019        | 739.78                          | 739.78                         | 15.65                      | 724.13                       |
| LF4-MW04             | Residuum     | 11/6/2019        | 743.35                          | 743.35                         | 10.53                      | 732.82                       |
| LF4-MW05             | Residuum     | 11/6/2019        | 753.32                          | 753.32                         | 16.96                      | 736.36                       |
| OLF-G04              | Transition   | 11/6/2019        | 745.03                          | 747.45                         | 51.24                      | 696.21                       |
| OLF-G05              | Transition   | 11/6/2019        | 738.23                          | 740.23                         | 42.91                      | 697.32                       |
| OLF-G06              | Transition   | 11/6/2019        | 747.78                          | 750.06                         | DRY                        | DRY                          |
| OLF-G07              | Transition   | 11/6/2019        | 739.10                          | 741.36                         | 50.45                      | 690.91                       |
| OLF-G08              | Transition   | 11/6/2019        | 737.60                          | 739.30                         | 39.74                      | 699.56                       |
| OLF-G09              | Residuum     | 11/6/2019        | 738.95                          | 741.25                         | DRY                        | DRY                          |
| OLF-G10              | Residuum     | 11/6/2019        | 746.35                          | 748.42                         | DRY                        | DRY                          |
| OLF-G12              | Transition   | 11/6/2019        | 745.75                          | 745.43                         | 70.91                      | 674.52                       |
| OLF-G17              | Transition   | 11/6/2019        | 739.56                          | 741.24                         | 31.05                      | 710.19                       |
| OLF-G18              | Transition   | 11/6/2019        | 742.01                          | 741.60                         | 47.46                      | 694.14                       |
| OLF-G19              | Transition   | 11/6/2019        | 744.50                          | 744.08                         | 54.96                      | 689.12                       |
| OLF-G20              | Bedrock      | 11/6/2019        | 739.17                          | 741.43                         | 62.42                      | 679.01                       |
| OLF-G21              | Bedrock      | 11/6/2019        | 742.76                          | 742.57                         | 61.56                      | 681.01                       |
| OLF-G22              | Bedrock      | 11/6/2019        | 746.67                          | 746.54                         | 72.27                      | 674.27                       |
| OLF-G23              | Bedrock      | 11/6/2019        | 744.17                          | 743.89                         | 69.65                      | 674.24                       |
| OLF-G24              | Transition   | 11/6/2019        | 743.90                          | 743.56                         | 70.00                      | 673.56                       |
| OLF-G25              | Bedrock      | 11/6/2019        | 745.17                          | 745.04                         | 62.06                      | 682.98                       |
| OLF-G26              | Transition   | 11/6/2019        | 745.16                          | 745.04                         | 69.99                      | 675.05                       |
| OLF-G29              | Bedrock      | 11/6/2019        | 770.62                          | 770.25                         | 96.13                      | 674.12                       |
| OLF-G30              | Deep Bedrock | 11/6/2019        | 770.92                          | 770.66                         | 97.54                      | 673.12                       |
| OLF-G31              | Bedrock      | 11/6/2019        | 794.25                          | 793.69                         | 112.30                     | 681.39                       |
| OLF-G32              | Deep Bedrock | 11/6/2019        | 793.64                          | 793.41                         | 120.31                     | 673.10                       |
| OLF-G35              | Deep Bedrock | 11/6/2019        | 743.40                          | 742.82                         | 69.65                      | 673.17                       |
| OLF-G36              | Deep Bedrock | 11/6/2019        | 746.74                          | 746.09                         | 71.96                      | 674.13                       |
| OLF-G37              | Bedrock      | 11/6/2019        | 769.57                          | 769.37                         | 90.61                      | 678.76                       |
| OLF-G40              | Transition   | 11/6/2019        | 737.20                          | 739.51                         | 25.63                      | 713.88                       |
| OLF-G41              | Transition   | 11/6/2019        | 746.50                          | 748.62                         | 30.85                      | 717.77                       |
| OLF-G42              | Bedrock      | 11/6/2019        | 746.20                          | 748.41                         | 74.52                      | 673.89                       |
| OLF-G43              | Bedrock      | 11/6/2019        | 761.50                          | 761.05                         | 94.89                      | 666.16                       |
| OLF-G44              | Deep Bedrock | 11/6/2019        | 760.00                          | 759.82                         | 97.43                      | 662.39                       |
| OLF-G45              | Bedrock      | 11/6/2019        | 719.00                          | 721.50                         | 43.05                      | 678.45                       |

**Table 4-1: Groundwater Elevations,  
November 2019 to May 2020  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| Well ID          | Well Type    | Measurement Date | Ground Surface Elevation (feet) | Top of Casing Elevation (feet) | Depth to Water (feet BTOC) | Groundwater Elevation (feet) |
|------------------|--------------|------------------|---------------------------------|--------------------------------|----------------------------|------------------------------|
| OLF-G46          | Deep Bedrock | 11/6/2019        | 719.80                          | 722.08                         | 45.70                      | 676.38                       |
| OLF-G47          | Bedrock      | 11/6/2019        | 717.40                          | 717.46                         | 60.81                      | 656.65                       |
| OLF-G48          | Deep Bedrock | 11/6/2019        | 717.60                          | 717.63                         | 51.44                      | 666.19                       |
| OLF-G49          | Transition   | 11/6/2019        | 753.30                          | 753.30                         | 83.50                      | 669.80                       |
| OLF-G50          | Bedrock      | 11/6/2019        | 753.49                          | 753.62                         | 84.09                      | 669.53                       |
| OLF-G51          | Deep Bedrock | 11/6/2019        | 753.63                          | 753.69                         | 81.99                      | 671.70                       |
| OLF-G52          | Deep Bedrock | 11/6/2019        | 723.99                          | 723.83                         | 63.46                      | 660.37                       |
| OLF-G53          | Transition   | 11/6/2019        | 739.74                          | 742.56                         | 46.85                      | 695.71                       |
| OLF-G54          | Residuum     | 11/6/2019        | 737.03                          | 739.65                         | 23.98                      | 715.67                       |
| OLF-G55          | Transition   | 11/6/2019        | 737.10                          | 740.09                         | 30.53                      | 709.56                       |
| OLF-G56          | Residuum     | 11/6/2019        | 744.09                          | 747.27                         | 32.49                      | 714.78                       |
| OLF-G57          | Transition   | 11/6/2019        | 744.09                          | 747.57                         | 32.75                      | 714.82                       |
| OLF-G58          | Residuum     | 11/6/2019        | 740.01                          | 743.42                         | 21.57                      | 721.85                       |
| OLF-G66          | Transition   | 11/6/2019        | 741.11                          | 743.95                         | 28.55                      | 715.40                       |
| OLF-G67          | Bedrock      | 11/6/2019        | 741.52                          | 743.98                         | 28.32                      | 715.66                       |
| OLF-G68          | Transition   | 11/6/2019        | 739.59                          | 742.30                         | 39.87                      | 702.43                       |
| OLF-G69          | Bedrock      | 11/6/2019        | 740.64                          | 742.94                         | 33.96                      | 708.98                       |
| OLF-G70          | Deep Bedrock | 11/6/2019        | 722.11                          | 722.11                         | 62.51                      | 659.60                       |
| OLF-G71 (Port 1) | Multi-Level  | 11/6/2019        | 739.49                          | 742.76                         | 46.98                      | 695.78                       |
| OLF-G71 (Port 2) | Multi-Level  | 11/6/2019        | 739.49                          | 742.77                         | 62.15                      | 680.62                       |
| OLF-G71 (Port 3) | Multi-Level  | 11/6/2019        | 739.49                          | 742.75                         | 62.10                      | 680.65                       |
| OLF-G71 (Port 4) | Multi-Level  | 11/6/2019        | 739.49                          | 742.73                         | 67.85                      | 674.88                       |
| OLF-G71 (Port 5) | Multi-Level  | 11/6/2019        | 739.49                          | 742.72                         | 67.23                      | 675.49                       |
| OLF-G72 (Port 1) | Multi-Level  | 11/6/2019        | 744.11                          | 747.40                         | 72.48                      | 674.92                       |
| OLF-G72 (Port 2) | Multi-Level  | 11/6/2019        | 744.11                          | 747.42                         | 68.95                      | 678.47                       |
| OLF-G72 (Port 3) | Multi-Level  | 11/6/2019        | 744.11                          | 747.43                         | 72.89                      | 674.54                       |
| OLF-G72 (Port 4) | Multi-Level  | 11/6/2019        | 744.11                          | 747.37                         | 73.11                      | 674.26                       |
| OLF-G72 (Port 5) | Multi-Level  | 11/6/2019        | 744.11                          | 747.40                         | 73.84                      | 673.56                       |
| OLF-G72 (Port 6) | Multi-Level  | 11/6/2019        | 744.11                          | 747.36                         | 69.50                      | 677.86                       |
| OLF-G73 (Port 1) | Multi-Level  | 11/6/2019        | 745.97                          | 749.56                         | 73.73                      | 675.83                       |
| OLF-G73 (Port 2) | Multi-Level  | 11/6/2019        | 745.97                          | 749.56                         | 75.01                      | 674.55                       |
| OLF-G73 (Port 3) | Multi-Level  | 11/6/2019        | 745.97                          | 749.58                         | 73.87                      | 675.71                       |
| OLF-G73 (Port 4) | Multi-Level  | 11/6/2019        | 745.97                          | 749.56                         | 75.01                      | 674.55                       |
| OLF-G73 (Port 5) | Multi-Level  | 11/6/2019        | 745.97                          | 749.62                         | 73.84                      | 675.78                       |
| OLF-G74 (Port1)  | Multi-Level  | 11/6/2019        | 747.28                          | 750.79                         | 72.15                      | 678.64                       |
| OLF-G74 (Port2)  | Multi-Level  | 11/6/2019        | 747.28                          | 750.79                         | 76.63                      | 674.16                       |
| OLF-G74 (Port3)  | Multi-Level  | 11/6/2019        | 747.28                          | 750.79                         | 75.32                      | 675.47                       |
| OLF-G74 (Port4)  | Multi-Level  | 11/6/2019        | 747.28                          | 750.77                         | 76.67                      | 674.10                       |

**Table 4-1: Groundwater Elevations,  
November 2019 to May 2020  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| Well ID         | Well Type    | Measurement Date | Ground Surface Elevation (feet) | Top of Casing Elevation (feet) | Depth to Water (feet BTOC) | Groundwater Elevation (feet) |
|-----------------|--------------|------------------|---------------------------------|--------------------------------|----------------------------|------------------------------|
| OLF-G74 (Port5) | Multi-Level  | 11/6/2019        | 747.28                          | 750.77                         | 72.29                      | 678.48                       |
| OLF-G75         | Multi-Level  | 11/6/2019        | TBD                             | 749.71                         | 75.75                      | 673.96                       |
| OLF-G76         | Multi-Level  | 11/6/2019        | TBD                             | 747.00                         | 73.67                      | 673.33                       |
| OLF-G77         | Transition   | 11/6/2019        | 744.08                          | 747.04                         | 65.35                      | 681.69                       |
| OLF-G78         | Transition   | 11/6/2019        | 745.92                          | 748.99                         | 73.61                      | 675.38                       |
| OLF-G79         | Deep Bedrock | 11/6/2019        | 743.70                          | 746.31                         | 72.08                      | 674.23                       |
| PPMP-229-GP08   | Bedrock      | 11/6/2019        | 728.91                          | 731.89                         | 24.97                      | 706.92                       |
| PPMP-229-GP09   | Residuum     | 11/6/2019        | 730.50                          | 733.24                         | 16.62                      | 716.62                       |
| PPMP-229-GP10   | Transition   | 11/6/2019        | 729.59                          | 732.31                         | 17.56                      | 714.75                       |
| PPMP-229-GP11   | Transition   | 11/6/2019        | 741.54                          | 744.13                         | 32.19                      | 711.94                       |
| PPMP-229-GP12   | Bedrock      | 11/6/2019        | 741.47                          | 743.79                         | 32.62                      | 711.17                       |
| PPMP-229-GP13   | Residuum     | 11/6/2019        | 717.87                          | 720.16                         | 41.04                      | 679.12                       |
| PPMP-229-GP14   | Transition   | 11/6/2019        | 718.31                          | 720.98                         | 42.77                      | 678.21                       |
| <b>May 2020</b> |              |                  |                                 |                                |                            |                              |
| LF4-MW01        | Residuum     | 5/14/2020        | 737.13                          | 739.79                         | 11.85                      | 727.94                       |
| LF4-MW02        | Residuum     | 5/14/2020        | 738.50                          | 738.50                         | 19.79                      | 718.71                       |
| LF4-MW03        | Residuum     | 5/14/2020        | 739.78                          | 739.78                         | 13.16                      | 726.62                       |
| LF4-MW04        | Residuum     | 5/14/2020        | 743.35                          | 743.35                         | 5.69                       | 737.66                       |
| LF4-MW05        | Residuum     | 5/14/2020        | 753.32                          | 753.32                         | 11.10                      | 742.22                       |
| OLF-G04         | Transition   | 5/14/2020        | 745.03                          | 747.45                         | 39.37                      | 708.08                       |
| OLF-G05         | Transition   | 5/14/2020        | 738.23                          | 740.23                         | 33.80                      | 706.43                       |
| OLF-G06         | Transition   | 5/14/2020        | 747.78                          | 750.06                         | 63.79                      | 686.27                       |
| OLF-G07         | Transition   | 5/14/2020        | 739.10                          | 741.36                         | 41.24                      | 700.12                       |
| OLF-G08         | Transition   | 5/14/2020        | 737.60                          | 739.30                         | 30.79                      | 708.51                       |
| OLF-G09         | Residuum     | 5/14/2020        | 738.95                          | 741.25                         | 23.64                      | 717.61                       |
| OLF-G10         | Residuum     | 5/14/2020        | 746.35                          | 748.42                         | 13.91                      | 734.51                       |
| OLF-G12         | Transition   | 5/14/2020        | 745.75                          | 745.43                         | 59.88                      | 685.55                       |
| OLF-G17         | Transition   | 5/14/2020        | 739.56                          | 741.24                         | 21.62                      | 719.62                       |
| OLF-G18         | Transition   | 5/14/2020        | 742.01                          | 741.60                         | 37.92                      | 703.68                       |
| OLF-G19         | Transition   | 5/14/2020        | 744.50                          | 744.08                         | 46.30                      | 697.78                       |
| OLF-G20         | Bedrock      | 5/14/2020        | 739.17                          | 741.43                         | 51.25                      | 690.18                       |
| OLF-G21         | Bedrock      | 5/14/2020        | 742.76                          | 742.57                         | 49.94                      | 692.63                       |
| OLF-G22         | Bedrock      | 5/14/2020        | 746.67                          | 746.54                         | 61.20                      | 685.34                       |
| OLF-G23         | Bedrock      | 5/14/2020        | 744.17                          | 743.89                         | 58.64                      | 685.25                       |
| OLF-G24         | Transition   | 5/14/2020        | 743.9                           | 743.56                         | 59.51                      | 684.05                       |
| OLF-G25         | Bedrock      | 5/14/2020        | 745.17                          | 745.04                         | 50.63                      | 694.41                       |
| OLF-G26         | Transition   | 5/14/2020        | 745.16                          | 745.04                         | 58.52                      | 686.52                       |

**Table 4-1: Groundwater Elevations,  
November 2019 to May 2020  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| Well ID          | Well Type    | Measurement Date | Ground Surface Elevation (feet) | Top of Casing Elevation (feet) | Depth to Water (feet BTOC) | Groundwater Elevation (feet) |
|------------------|--------------|------------------|---------------------------------|--------------------------------|----------------------------|------------------------------|
| OLF-G29          | Bedrock      | 5/19/2020        | 770.62                          | 770.25                         | 84.29                      | 685.96                       |
| OLF-G30          | Deep Bedrock | 5/19/2020        | 770.92                          | 770.66                         | 85.17                      | 685.49                       |
| OLF-G31          | Bedrock      | 5/14/2020        | 794.25                          | 793.69                         | 97.63                      | 696.06                       |
| OLF-G32          | Deep Bedrock | 5/14/2020        | 793.64                          | 793.41                         | 107.36                     | 686.05                       |
| OLF-G35          | Deep Bedrock | 5/14/2020        | 743.40                          | 742.82                         | 58.70                      | 684.12                       |
| OLF-G36          | Deep Bedrock | 5/14/2020        | 746.74                          | 746.09                         | 60.60                      | 685.49                       |
| OLF-G37          | Bedrock      | 5/14/2020        | 769.57                          | 769.37                         | 76.85                      | 692.52                       |
| OLF-G40          | Transition   | 5/14/2020        | 737.20                          | 739.51                         | 13.55                      | 725.96                       |
| OLF-G41          | Transition   | 5/14/2020        | 746.50                          | 748.62                         | 16.80                      | 731.82                       |
| OLF-G42          | Bedrock      | 5/14/2020        | 746.20                          | 748.41                         | 63.64                      | 684.77                       |
| OLF-G43          | Bedrock      | 5/14/2020        | 761.50                          | 761.05                         | 86.17                      | 674.88                       |
| OLF-G44          | Deep Bedrock | 5/14/2020        | 760.00                          | 759.82                         | 90.03                      | 669.79                       |
| OLF-G45          | Bedrock      | 5/14/2020        | 719.00                          | 721.50                         | 32.99                      | 688.51                       |
| OLF-G46          | Deep Bedrock | 5/14/2020        | 719.80                          | 722.08                         | 35.98                      | 686.10                       |
| OLF-G47          | Bedrock      | 5/14/2020        | 717.40                          | 717.46                         | 56.70                      | 660.76                       |
| OLF-G48          | Deep Bedrock | 5/14/2020        | 717.60                          | 717.63                         | 43.87                      | 673.76                       |
| OLF-G49          | Transition   | 5/14/2020        | 753.30                          | 753.30                         | 73.31                      | 679.99                       |
| OLF-G50          | Bedrock      | 5/14/2020        | 753.49                          | 753.62                         | 74.11                      | 679.51                       |
| OLF-G51          | Deep Bedrock | 5/14/2020        | 753.63                          | 753.69                         | 71.33                      | 682.36                       |
| OLF-G52          | Deep Bedrock | 5/14/2020        | 723.99                          | 723.83                         | 57.51                      | 666.32                       |
| OLF-G53          | Transition   | 5/14/2020        | 739.74                          | 742.56                         | 35.56                      | 707.00                       |
| OLF-G54          | Residuum     | 5/14/2020        | 737.03                          | 739.65                         | 12.08                      | 727.57                       |
| OLF-G55          | Transition   | 5/14/2020        | 737.10                          | 740.09                         | 19.61                      | 720.48                       |
| OLF-G56          | Residuum     | 5/14/2020        | 744.09                          | 747.27                         | 19.58                      | 727.69                       |
| OLF-G57          | Transition   | 5/14/2020        | 744.09                          | 747.57                         | 19.89                      | 727.68                       |
| OLF-G58          | residuum     | 5/14/2020        | 740.01                          | 743.42                         | 11.94                      | 731.48                       |
| OLF-G66          | Transition   | 5/14/2020        | 741.11                          | 743.95                         | 17.07                      | 726.88                       |
| OLF-G67          | Bedrock      | 5/14/2020        | 741.52                          | 743.98                         | 16.89                      | 727.09                       |
| OLF-G68          | Transition   | 5/14/2020        | 739.59                          | 742.30                         | 28.20                      | 714.10                       |
| OLF-G69          | Bedrock      | 5/14/2020        | 740.64                          | 742.94                         | 22.18                      | 720.76                       |
| OLF-G70          | Deep Bedrock | 5/14/2020        | 722.11                          | 722.11                         | 57.21                      | 664.90                       |
| OLF-G71 (Port 1) | Multi-Level  | 5/14/2020        | 739.49                          | 742.76                         | 38.27                      | 704.49                       |
| OLF-G71 (Port 2) | Multi-Level  | 5/14/2020        | 739.49                          | 742.77                         | 38.22                      | 704.55                       |
| OLF-G71 (Port 3) | Multi-Level  | 5/14/2020        | 739.49                          | 742.75                         | 37.87                      | 704.88                       |
| OLF-G71 (Port 4) | Multi-Level  | 5/14/2020        | 739.49                          | 742.73                         | 37.77                      | 704.96                       |
| OLF-G71 (Port 5) | Multi-Level  | 5/14/2020        | 739.49                          | 742.72                         | 37.74                      | 704.98                       |
| OLF-G72 (Port 1) | Multi-Level  | 5/14/2020        | 744.11                          | 747.40                         | 60.89                      | 686.51                       |
| OLF-G72 (Port 2) | Multi-Level  | 5/14/2020        | 744.11                          | 747.42                         | 61.12                      | 686.30                       |

**Table 4-1: Groundwater Elevations,  
November 2019 to May 2020  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| Well ID          | Well Type    | Measurement Date | Ground Surface Elevation (feet) | Top of Casing Elevation (feet) | Depth to Water (feet BTOC) | Groundwater Elevation (feet) |
|------------------|--------------|------------------|---------------------------------|--------------------------------|----------------------------|------------------------------|
| OLF-G72 (Port 3) | Multi-Level  | 5/14/2020        | 744.11                          | 747.43                         | 62.00                      | 685.43                       |
| OLF-G72 (Port 4) | Multi-Level  | 5/14/2020        | 744.11                          | 747.37                         | 61.93                      | 685.44                       |
| OLF-G72 (Port 5) | Multi-Level  | 5/14/2020        | 744.11                          | 747.40                         | 62.01                      | 685.39                       |
| OLF-G72 (Port 6) | Multi-Level  | 5/14/2020        | 744.11                          | 747.36                         | 61.98                      | 685.38                       |
| OLF-G73 (Port 1) | Multi-Level  | 5/14/2020        | 745.97                          | 749.56                         | 63.44                      | 686.12                       |
| OLF-G73 (Port 2) | Multi-Level  | 5/14/2020        | 745.97                          | 749.56                         | 63.76                      | 685.80                       |
| OLF-G73 (Port 3) | Multi-Level  | 5/14/2020        | 745.97                          | 749.58                         | 63.71                      | 685.87                       |
| OLF-G73 (Port 4) | Multi-Level  | 5/14/2020        | 745.97                          | 749.56                         | 63.68                      | 685.88                       |
| OLF-G73 (Port 5) | Multi-Level  | 5/14/2020        | 745.97                          | 749.62                         | 63.62                      | 686.00                       |
| OLF-G74 (Port 1) | Multi-Level  | 5/14/2020        | 747.28                          | 750.79                         | *                          | NA                           |
| OLF-G74 (Port 2) | Multi-Level  | 5/14/2020        | 747.28                          | 750.79                         | 65.66                      | 685.13                       |
| OLF-G74 (Port 3) | Multi-Level  | 5/14/2020        | 747.28                          | 750.79                         | 65.40                      | 685.39                       |
| OLF-G74 (Port 4) | Multi-Level  | 5/14/2020        | 747.28                          | 750.77                         | 65.51                      | 685.26                       |
| OLF-G74 (Port 5) | Multi-Level  | 5/14/2020        | 747.28                          | 750.77                         | 65.16                      | 685.61                       |
| OLF-G75          | Multi-Level  | 5/14/2020        | TBD                             | 749.71                         | 64.73                      | 684.98                       |
| OLF-G76          | Multi-Level  | 5/14/2020        | TBD                             | 747.00                         | 63.36                      | 683.64                       |
| OLF-G77          | Transition   | 5/14/2020        | 744.08                          | 747.04                         | 55.41                      | 691.63                       |
| OLF-G78          | Transition   | 5/14/2020        | 745.92                          | 748.99                         | 62.37                      | 686.62                       |
| OLF-G79          | Deep Bedrock | 5/14/2020        | 743.70                          | 746.31                         | 60.65                      | 685.66                       |
| PPMP-229-GP08    | Bedrock      | 5/14/2020        | 728.91                          | 731.89                         | 15.46                      | 716.43                       |
| PPMP-229-GP09    | Residuum     | 5/14/2020        | 730.50                          | 733.24                         | 5.34                       | 727.90                       |
| PPMP-229-GP10    | Transition   | 5/14/2020        | 729.59                          | 732.31                         | 5.79                       | 726.52                       |
| PPMP-229-GP11    | Transition   | 5/14/2020        | 741.54                          | 744.13                         | 25.05                      | 719.08                       |
| PPMP-229-GP12    | Bedrock      | 5/14/2020        | 741.47                          | 743.79                         | 25.29                      | 718.50                       |
| PPMP-229-GP13    | Residuum     | 5/14/2020        | 717.87                          | 720.16                         | 28.49                      | 691.67                       |
| PPMP-229-GP14    | Transition   | 5/14/2020        | 718.31                          | 720.98                         | 32.25                      | 688.73                       |

**Notes:**

BTOC = Below top of casing

\* Unable to get water level meter in port.

**Table 4-2: Horizontal Hydraulic Gradients,  
November 2019 and May 2020  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| <b>Upgradient<br/>Monitoring Well</b> | <b>Well Type</b> | <b>Groundwater<br/>Elevation</b> | <b>Downgradient<br/>Monitoring<br/>Well</b> | <b>Well Type</b> | <b>Groundwater<br/>Elevation</b> | <b>Estimated<br/>Groundwater<br/>Flow Direction</b> | <b>Horizontal<br/>Distance</b> | <b>Elevation<br/>Difference<br/>(feet)</b> | <b>Horizontal<br/>Gradient<br/>(feet per foot)</b> |
|---------------------------------------|------------------|----------------------------------|---------------------------------------------|------------------|----------------------------------|-----------------------------------------------------|--------------------------------|--------------------------------------------|----------------------------------------------------|
| <b><u>November 2019</u></b>           |                  |                                  |                                             |                  |                                  |                                                     |                                |                                            |                                                    |
| OLF-G56                               | Residuum         | 714.78                           | OLF-G15                                     | Residuum         | NC                               | North                                               | 1854                           | NA                                         | NA                                                 |
| OLF-G40                               | Transition       | 713.88                           | OLF-G12                                     | Transition       | 674.52                           | Northwest                                           | 1201                           | 39.36                                      | 0.033                                              |
| OLF-G17                               | Transition       | 710.19                           | OLF-G26                                     | Transition       | 675.05                           | North                                               | 700                            | 35.14                                      | 0.050                                              |
| OLF-G21                               | Bedrock          | 681.01                           | OLF-G43                                     | Bedrock          | 666.16                           | Northeast                                           | 2050                           | 14.85                                      | 0.007                                              |
| OLF-G22                               | Bedrock          | 674.27                           | OLF-G47                                     | Bedrock          | 656.65                           | Northeast                                           | 1849                           | 17.62                                      | 0.010                                              |
| OLF-G37                               | Bedrock          | 678.76                           | OLF-G43                                     | Bedrock          | 666.16                           | Northeast                                           | 1717                           | 12.60                                      | 0.007                                              |
| OLF-G30                               | Deep Bedrock     | 673.12                           | OLF-G44                                     | Deep Bedrock     | 662.39                           | Northeast                                           | 1349                           | 10.73                                      | 0.008                                              |
| OLF-G46                               | Deep Bedrock     | 676.38                           | OLF-G52                                     | Deep Bedrock     | 660.37                           | Northwest                                           | 909                            | 16.01                                      | 0.018                                              |
| OLF-G36                               | Deep Bedrock     | 674.13                           | OLF-G44                                     | Deep Bedrock     | 662.39                           | North                                               | 1293                           | 11.74                                      | 0.009                                              |
| <b><u>May 2020</u></b>                |                  |                                  |                                             |                  |                                  |                                                     |                                |                                            |                                                    |
| OLF-G56                               | Residuum         | 727.69                           | OLF-G15                                     | Residuum         | NC                               | North                                               | 1854                           | NA                                         | NA                                                 |
| OLF-G40                               | Transition       | 725.96                           | OLF-G12                                     | Transition       | 685.55                           | Northwest                                           | 1201                           | 40.41                                      | 0.034                                              |
| OLF-G17                               | Transition       | 719.62                           | OLF-G26                                     | Transition       | 686.52                           | North                                               | 700                            | 33.10                                      | 0.047                                              |
| OLF-G21                               | Bedrock          | 692.63                           | OLF-G43                                     | Bedrock          | 674.88                           | Northeast                                           | 2050                           | 17.75                                      | 0.009                                              |
| OLF-G22                               | Bedrock          | 685.34                           | OLF-G47                                     | Bedrock          | 660.76                           | Northeast                                           | 1849                           | 24.58                                      | 0.013                                              |
| OLF-G37                               | Bedrock          | 692.52                           | OLF-G43                                     | Bedrock          | 674.88                           | Northeast                                           | 1717                           | 17.64                                      | 0.010                                              |
| OLF-G30                               | Deep Bedrock     | 685.49                           | OLF-G44                                     | Deep Bedrock     | 669.79                           | Northeast                                           | 1349                           | 15.70                                      | 0.012                                              |
| OLF-G46                               | Deep Bedrock     | 686.10                           | OLF-G52                                     | Deep Bedrock     | 666.32                           | Northwest                                           | 909                            | 19.78                                      | 0.022                                              |
| OLF-G36                               | Deep Bedrock     | 685.49                           | OLF-G44                                     | Deep Bedrock     | 669.79                           | North                                               | 1293                           | 15.70                                      | 0.012                                              |

**Notes:**

Elevations in feet above mean sea level.

NC - Not collected

**Table 4-3: Vertical Hydraulic Gradients,  
November 2019 and May 2020  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| Well Cluster IDs            | Well Completion Zone | Midpoint of Screen Elevation | Groundwater Elevation (Nov 19) | dH (Nov 19) | dL     | Vertical Hydraulic Gradient (Nov 19) (feet per foot) |
|-----------------------------|----------------------|------------------------------|--------------------------------|-------------|--------|------------------------------------------------------|
| <b><u>November 2019</u></b> |                      |                              |                                |             |        |                                                      |
| OLF-G10                     | residuum             | 723.85                       | dry                            | NA          | 52.35  | NA                                                   |
| OLF-G41                     | transition           | 671.50                       | 717.77                         |             |        |                                                      |
| OLF-G56                     | residuum             | 709.09                       | 714.78                         | -0.07       | 22.50  | -0.003                                               |
| OLF-G57                     | transition           | 686.59                       | 714.85                         |             |        |                                                      |
| LF4-MW1                     | residuum             | 709.63                       | 715.36                         | 1.48        | 86.63  | 0.0171                                               |
| OLF-G40                     | transition           | 623.00                       | 713.88                         |             |        |                                                      |
| OLF-G58                     | residuum             | 716.01                       | 721.85                         | 19.42       | 100.71 | 0.193                                                |
| OLF-G68                     | transition           | 615.30                       | 702.43                         |             |        |                                                      |
| OLF-G68                     | transition           | 615.30                       | 702.43                         | -6.55       | 44.36  | -0.148                                               |
| OLF-G69                     | bedrock              | 570.94                       | 708.98                         |             |        |                                                      |
| OLF-G54                     | residuum             | 705.03                       | 715.67                         | 6.11        | 40.43  | 0.151                                                |
| OLF-G55                     | transition           | 664.6                        | 709.56                         |             |        |                                                      |
| PPMP-229-GP09               | residuum             | 699.24                       | 716.62                         | 1.87        | 18.93  | 0.099                                                |
| PPMP-229-GP10               | transition           | 680.31                       | 714.75                         |             |        |                                                      |
| PPMP-229-GP10               | transition           | 680.31                       | 714.75                         | 7.83        | 148.90 | 0.053                                                |
| PPMP-229-GP08               | bedrock              | 531.41                       | 706.92                         |             |        |                                                      |
| PPMP-229-GP13               | residuum             | 680.16                       | 679.12                         | 0.91        | 17.18  | 0.053                                                |
| PPMP-229-GP14               | transition           | 662.98                       | 678.21                         |             |        |                                                      |
| PPMP-229-GP14               | transition           | 662.98                       | 678.21                         | -0.24       | 115.18 | -0.002                                               |
| OLF-G45                     | bedrock              | 547.80                       | 678.45                         |             |        |                                                      |
| OLF-G45                     | bedrock              | 547.80                       | 678.45                         | 2.07        | 67.20  | 0.031                                                |
| OLF-G46                     | deep bedrock         | 480.60                       | 676.38                         |             |        |                                                      |
| OLF-G24                     | transition           | 656.80                       | 673.56                         | -0.68       | 74.73  | -0.009                                               |

**Table 4-3: Vertical Hydraulic Gradients,  
November 2019 and May 2020  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| <b>Well Cluster IDs</b> | <b>Well Completion Zone</b> | <b>Midpoint of Screen Elevation</b> | <b>Groundwater Elevation (Nov 19)</b> | <b>dH (Nov 19)</b> | <b>dL</b> | <b>Vertical Hydraulic Gradient (Nov 19) (feet per foot)</b> |
|-------------------------|-----------------------------|-------------------------------------|---------------------------------------|--------------------|-----------|-------------------------------------------------------------|
| OLF-G23                 | bedrock                     | 582.07                              | 674.24                                |                    |           |                                                             |
| OLF-G66                 | transition                  | 644.95                              | 715.40                                | -0.26              | 44.97     | -0.006                                                      |
| OLF-G67                 | bedrock                     | 599.98                              | 715.66                                |                    |           |                                                             |
| PPMP-229-GP11           | transition                  | 675.13                              | 711.94                                | 0.77               | 94.34     | 0.008                                                       |
| PPMP-229-GP12           | bedrock                     | 580.79                              | 711.17                                |                    |           |                                                             |
| OLF-G18                 | transition                  | 689.01                              | 694.14                                | 13.13              | 108.35    | 0.121                                                       |
| OLF-G21                 | bedrock                     | 580.66                              | 681.01                                |                    |           |                                                             |
| OLF-G26                 | transition                  | 653.06                              | 675.05                                | -7.93              | 70.49     | -0.112                                                      |
| OLF-G25                 | bedrock                     | 582.57                              | 682.98                                |                    |           |                                                             |
| OLF-G07                 | transition                  | 682.10                              | 690.91                                | 11.90              | 105.03    | 0.113                                                       |
| OLF-G20                 | bedrock                     | 577.07                              | 679.01                                |                    |           |                                                             |
| OLF-G12                 | transition                  | 665.75                              | 674.52                                | 0.25               | 81.58     | 0.003                                                       |
| OLF-G22                 | bedrock                     | 584.17                              | 674.27                                |                    |           |                                                             |
| OLF-49                  | transition                  | 653.30                              | 669.80                                | 0.27               | 48.81     | 0.0055                                                      |
| OLF-50                  | bedrock                     | 604.49                              | 669.53                                |                    |           |                                                             |
| OLF-G22                 | bedrock                     | 584.17                              | 674.27                                | 0.14               | 88.73     | 0.002                                                       |
| OLF-G36                 | deep bedrock                | 495.44                              | 674.13                                |                    |           |                                                             |
| OLF-G23                 | bedrock                     | 582.07                              | 674.24                                | 1.07               | 91.17     | 0.012                                                       |
| OLF-G35                 | deep bedrock                | 490.90                              | 673.17                                |                    |           |                                                             |
| OLF-50                  | bedrock                     | 604.49                              | 669.53                                | --                 | 99.86     | --                                                          |
| OLF-51                  | deep bedrock                | 504.63                              | 671.70                                |                    |           |                                                             |
| OLF-G43                 | bedrock                     | 548.40                              | 666.16                                | 3.77               | 76.00     | 0.050                                                       |
| OLF-G44                 | deep bedrock                | 472.40                              | 662.39                                |                    |           |                                                             |
| OLF-G04                 | transition                  | 699.53                              | 696.21                                | 22.32              | 117.03    | 0.191                                                       |

**Table 4-3: Vertical Hydraulic Gradients,  
November 2019 and May 2020  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| <b>Well Cluster IDs</b> | <b>Well Completion Zone</b> | <b>Midpoint of Screen Elevation</b> | <b>Groundwater Elevation (Nov 19)</b> | <b>dH (Nov 19)</b> | <b>dL</b> | <b>Vertical Hydraulic Gradient (Nov 19) (feet per foot)</b> |
|-------------------------|-----------------------------|-------------------------------------|---------------------------------------|--------------------|-----------|-------------------------------------------------------------|
| OLF-G42                 | bedrock                     | 582.50                              | 673.89                                |                    |           |                                                             |
| OLF-G47                 | bedrock                     | 405.40                              | 656.65                                | -9.54              | 82.80     | -0.115                                                      |
| OLF-G48                 | deep bedrock                | 322.60                              | 666.19                                |                    |           |                                                             |
| OLF-G29                 | bedrock                     | 555.52                              | 674.12                                | 1.00               | 71.40     | 0.014                                                       |
| OLF-G30                 | deep bedrock                | 484.12                              | 673.12                                |                    |           |                                                             |
| OLF-G31                 | bedrock                     | 579.25                              | 681.39                                | 8.29               | 66.61     | 0.124                                                       |
| OLF-G32                 | deep bedrock                | 512.64                              | 673.10                                |                    |           |                                                             |
| <b><u>May 2020</u></b>  |                             |                                     |                                       |                    |           |                                                             |
| OLF-G10                 | residuum                    | 723.85                              | 734.51                                | 2.69               | 52.35     | 0.051                                                       |
| OLF-G41                 | transition                  | 671.50                              | 731.82                                |                    |           |                                                             |
| OLF-G56                 | residuum                    | 709.09                              | 727.69                                | 0.01               | 22.50     | 0.000                                                       |
| OLF-G57                 | transition                  | 686.59                              | 727.68                                |                    |           |                                                             |
| LF4-MW1                 | residuum                    | 709.63                              | 727.94                                | 1.98               | 86.63     | 0.0229                                                      |
| OLF-G40                 | transition                  | 623.00                              | 725.96                                |                    |           |                                                             |
| OLF-G58                 | residuum                    | 716.01                              | 731.48                                | 17.38              | 100.71    | 0.173                                                       |
| OLF-G68                 | transition                  | 615.30                              | 714.10                                |                    |           |                                                             |
| OLF-G68                 | transition                  | 615.30                              | 714.10                                | -6.66              | 44.36     | -0.150                                                      |
| OLF-G69                 | bedrock                     | 570.94                              | 720.76                                |                    |           |                                                             |
| OLF-G54                 | residuum                    | 705.03                              | 727.57                                | 7.09               | 40.43     | 0.175                                                       |
| OLF-G55                 | transition                  | 664.6                               | 720.48                                |                    |           |                                                             |
| PPMP-229-GP09           | residuum                    | 699.24                              | 727.90                                | 1.38               | 18.93     | 0.073                                                       |
| PPMP-229-GP10           | transition                  | 680.31                              | 726.52                                |                    |           |                                                             |
| PPMP-229-GP10           | transition                  | 680.31                              | 726.52                                | 10.09              | 148.90    | 0.068                                                       |
| PPMP-229-GP08           | bedrock                     | 531.41                              | 716.43                                |                    |           |                                                             |

**Table 4-3: Vertical Hydraulic Gradients,  
November 2019 and May 2020  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| <b>Well Cluster IDs</b> | <b>Well Completion Zone</b> | <b>Midpoint of Screen Elevation</b> | <b>Groundwater Elevation (Nov 19)</b> | <b>dH (Nov 19)</b> | <b>dL</b> | <b>Vertical Hydraulic Gradient (Nov 19) (feet per foot)</b> |
|-------------------------|-----------------------------|-------------------------------------|---------------------------------------|--------------------|-----------|-------------------------------------------------------------|
| PPMP-229-GP13           | residuum                    | 680.16                              | 691.67                                | 2.94               | 17.18     | 0.171                                                       |
| PPMP-229-GP14           | transition                  | 662.98                              | 688.73                                |                    |           |                                                             |
| PPMP-229-GP14           | transition                  | 662.98                              | 688.73                                | 0.22               | 115.18    | 0.002                                                       |
| OLF-G45                 | bedrock                     | 547.80                              | 688.51                                |                    |           |                                                             |
| OLF-G45                 | bedrock                     | 547.80                              | 688.51                                | 2.41               | 67.20     | 0.036                                                       |
| OLF-G46                 | deep bedrock                | 480.60                              | 686.10                                |                    |           |                                                             |
| OLF-G24                 | transition                  | 656.80                              | 684.05                                | -1.20              | 74.73     | -0.016                                                      |
| OLF-G23                 | bedrock                     | 582.07                              | 685.25                                |                    |           |                                                             |
| OLF-G66                 | transition                  | 644.95                              | 726.88                                | -0.21              | 44.97     | -0.005                                                      |
| OLF-G67                 | bedrock                     | 599.98                              | 727.09                                |                    |           |                                                             |
| PPMP-229-GP11           | transition                  | 675.13                              | 719.08                                | 0.58               | 94.34     | 0.006                                                       |
| PPMP-229-GP12           | bedrock                     | 580.79                              | 718.50                                |                    |           |                                                             |
| OLF-G18                 | transition                  | 689.01                              | 703.68                                | 11.05              | 108.35    | 0.102                                                       |
| OLF-G21                 | bedrock                     | 580.66                              | 692.63                                |                    |           |                                                             |
| OLF-G26                 | transition                  | 653.06                              | 686.52                                | -7.89              | 70.49     | -0.112                                                      |
| OLF-G25                 | bedrock                     | 582.57                              | 694.41                                |                    |           |                                                             |
| OLF-G07                 | transition                  | 682.10                              | 700.12                                | 9.94               | 105.03    | 0.095                                                       |
| OLF-G20                 | bedrock                     | 577.07                              | 690.18                                |                    |           |                                                             |
| OLF-G12                 | transition                  | 665.75                              | 685.55                                | 0.21               | 81.58     | 0.003                                                       |
| OLF-G22                 | bedrock                     | 584.17                              | 685.34                                |                    |           |                                                             |
| OLF-49                  | transition                  | 653.30                              | 679.99                                | 0.48               | 48.81     | 0.0098                                                      |
| OLF-50                  | bedrock                     | 604.49                              | 679.51                                |                    |           |                                                             |
| OLF-G22                 | bedrock                     | 584.17                              | 685.34                                | -0.15              | 88.73     | -0.002                                                      |
| OLF-G36                 | deep bedrock                | 495.44                              | 685.49                                |                    |           |                                                             |

**Table 4-3: Vertical Hydraulic Gradients,  
November 2019 and May 2020  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| Well Cluster IDs | Well Completion Zone | Midpoint of Screen Elevation | Groundwater Elevation (Nov 19) | dH (Nov 19) | dL     | Vertical Hydraulic Gradient (Nov 19) (feet per foot) |
|------------------|----------------------|------------------------------|--------------------------------|-------------|--------|------------------------------------------------------|
| OLF-G23          | bedrock              | 582.07                       | 685.25                         | 1.13        | 91.17  | 0.012                                                |
| OLF-G35          | deep bedrock         | 490.90                       | 684.12                         |             |        |                                                      |
| OLF-50           | bedrock              | 604.49                       | 679.51                         | -2.85       | 99.86  | -0.029                                               |
| OLF-51           | deep bedrock         | 504.63                       | 682.36                         |             |        |                                                      |
| OLF-G43          | bedrock              | 548.40                       | 674.88                         | 5.09        | 76.00  | 0.067                                                |
| OLF-G44          | deep bedrock         | 472.40                       | 669.79                         |             |        |                                                      |
| OLF-G04          | transition           | 699.53                       | 708.08                         | 23.31       | 117.03 | 0.199                                                |
| OLF-G42          | bedrock              | 582.50                       | 684.77                         |             |        |                                                      |
| OLF-G47          | bedrock              | 405.40                       | 660.76                         | -13.00      | 82.80  | -0.157                                               |
| OLF-G48          | deep bedrock         | 322.60                       | 673.76                         |             |        |                                                      |
| OLF-G29          | bedrock              | 555.52                       | 685.96                         | 0.47        | 71.40  | 0.007                                                |
| OLF-G30          | deep bedrock         | 484.12                       | 685.49                         |             |        |                                                      |
| OLF-G31          | bedrock              | 579.25                       | 696.06                         | 10.01       | 66.61  | 0.150                                                |
| OLF-G32          | deep bedrock         | 512.64                       | 686.05                         |             |        |                                                      |

**Notes:**

Elevations in feet above mean sea level.

A negative value for vertical hydraulic gradient signifies an upward hydraulic gradient

ID = identification

dH = difference in groundwater elevation (feet)

dL = distance between screened intervals (feet)

NA = not applicable

**Table 4-4: Groundwater Field Parameters,  
November 2019 to May 2020  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| Well ID                     | Well Type    | Sample Date | Temperature (°C) | Conductivity (µs/cm) | Dissolved Oxygen (mg/L) | ORP (mV) | TDS (g/L) | Turbidity (NTU) | pH   |
|-----------------------------|--------------|-------------|------------------|----------------------|-------------------------|----------|-----------|-----------------|------|
| <b><u>November 2019</u></b> |              |             |                  |                      |                         |          |           |                 |      |
| OLF-G07                     | Transition   | 11/20/2019  | 18.10            | 75.5                 | 2.99                    | 236.1    | 0.049     | 2.6             | 5.38 |
| OLF-G12                     | Transition   | 11/19/2020  | 18.80            | 75.4                 | 5.38                    | 207.9    | 0.049     | 2.98            | 5.31 |
| OLF-G18                     | Transition   | 11/19/2019  | 16.00            | 122.9                | 2.50                    | 94.6     | 0.080     | 15.97           | 6.42 |
| OLF-G19                     | Transition   | 11/19/2019  | 19.20            | 118.6                | 1.62                    | 31.3     | 0.077     | 2.22            | 6.72 |
| OLF-G20                     | Bedrock      | 11/20/2019  | 15.10            | 757                  | 0.60                    | -82.8    | 0.494     | 2.46            | 7.06 |
| OLF-G21                     | Bedrock      | 11/19/2019  | 15.90            | 488.9                | 0.70                    | -145.8   | 0.317     | 2.05            | 7.53 |
| OLF-G22                     | Bedrock      | 11/19/2019  | 19.50            | 406.6                | 0.72                    | 34.2     | 0.265     | 3.19            | 6.33 |
| OLF-G23                     | Bedrock      | 11/18/2019  | 20.00            | 334.9                | 3.01                    | 137.3    | 0.218     | 1.12            | 6.08 |
| OLF-G24                     | Transition   | 11/18/2019  | 20.30            | 57.3                 | 2.75                    | 202.9    | 0.037     | 15.08           | 5.27 |
| OLF-G26                     | Transition   | 11/20/2019  | 18.70            | 208.7                | 8.98                    | 69.2     | 0.135     | 4.41            | 6.35 |
| OLF-G31                     | Bedrock      | 11/11/2019  | 18.00            | 353.2                | 1.60                    | -100.5   | 0.229     | 12.26           | 7.79 |
| OLF-G32                     | Deep Bedrock | 11/11/2019  | 18.90            | 232.5                | 2.54                    | 36.5     | 0.151     | 11.91           | 7.87 |
| OLF-G35                     | Deep Bedrock | 11/19/2019  | 16.60            | 94.3                 | 0.49                    | -122.2   | 0.061     | 6.58            | 7.25 |
| OLF-G36                     | Deep Bedrock | 11/19/2019  | 18.90            | 428.2                | 1.16                    | -62.1    | 0.279     | 6.15            | 7.46 |
| OLF-G42                     | Bedrock      | 11/20/2019  | 16.00            | 663                  | 0.51                    | -95.4    | 0.429     | 4.52            | 7.35 |
| OLF-G43                     | Bedrock      | 11/19/2019  | 17.00            | 170.3                | 4.79                    | 117.8    | 0.111     | 1.55            | 6.43 |
| OLF-G47                     | Bedrock      | 11/18/2019  | 18.60            | 354.6                | 3.59                    | 57.4     | 0.231     | 3.98            | 7.56 |
| OLF-G48                     | Deep Bedrock | 11/18/2019  | 16.50            | 313.3                | 2.34                    | 4.1      | 0.204     | 9.43            | 7.80 |
| OLF-G49                     | Transition   | 11/13/2019  | 15.90            | 69.0                 | 6.02                    | 240.1    | 0.045     | 49.88           | 5.23 |
| OLF-G50                     | Bedrock      | 11/13/2019  | 15.70            | 195.3                | 5.22                    | 151.0    | 0.127     | 11.09           | 6.13 |
| OLF-G51                     | Deep Bedrock | 11/13/2019  | 15.10            | 334.2                | 4.49                    | 109.0    | 0.217     | 12.08           | 6.59 |
| OLF-G52                     | Deep Bedrock | 11/11/2019  | 18.80            | 336.5                | 2.51                    | -172.9   | 0.219     | 17.99           | 9.36 |
| OLF-G70                     | Deep Bedrock | 11/18/2019  | 18.30            | 346.6                | 2.35                    | 43.1     | 0.225     | 31.08           | 7.73 |
| OLF-G71 (Port 1)            | Multi-Level  | 11/12/2019  | 12.80            | 1004                 | 0.88                    | -106.1   | 0.650     | 1.06            | 6.97 |
| OLF-G71 (Port 2)            | Multi-Level  | 11/12/2019  | 9.10             | 737.0                | 1.07                    | -113.1   | 0.481     | 0.94            | 7.19 |
| OLF-G71 (Port 3)            | Multi-Level  | 11/12/2019  | 7.0              | 912                  | 1.40                    | -45.1    | 0.592     | 3.4             | 6.95 |
| OLF-G71 (Port 4)            | Multi-Level  | 11/12/2019  | 8.8              | 633.9                | 2.04                    | -116.8   | 0.412     | 0.86            | 7.21 |
| OLF-G71 (Port 5)            | Multi-Level  | 11/12/2019  | 8.7              | 613.3                | 1.02                    | -138.4   | 0.399     | 0.69            | 7.34 |

**Table 4-4: Groundwater Field Parameters,  
November 2019 to May 2020  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| Well ID            | Well Type   | Sample Date | Temperature (°C) | Conductivity (µs/cm) | Dissolved Oxygen (mg/L) | ORP (mV) | TDS (g/L) | Turbidity (NTU) | pH   |
|--------------------|-------------|-------------|------------------|----------------------|-------------------------|----------|-----------|-----------------|------|
| OLF-G72 (Port 1)   | Multi-Level | 11/12/2019  | 8.0              | 1094.0               | 2.32                    | -81.4    | 0.709     | 4.63            | 6.85 |
| OLF-G72 (Port 2)   | Multi-Level | 11/12/2019  | 13.4             | 1183.0               | 1.00                    | -53.1    | 0.767     | 30.77           | 6.44 |
| OLF-G72 (Port 3)   | Multi-Level | 11/12/2019  | 13.2             | 727.0                | 3.48                    | -60.3    | 0.475     | 4.44            | 6.90 |
| OLF-G72 (Port 4)   | Multi-Level | 11/12/2019  | 12.1             | 1335.0               | 1.61                    | -25.3    | 0.871     | 25.3            | 6.22 |
| OLF-G72 (Port 5)   | Multi-Level | 11/12/2019  | 8.3              | 470.4                | 1.73                    | -94.3    | 0.306     | 7.32            | 6.79 |
| OLF-G72 (Port 6)   | Multi-Level | 11/12/2019  | 5.5              | 478.6                | 1.64                    | -102.3   | 0.311     | 5.86            | 6.90 |
| OLF-G73 (Port 1)   | Multi-Level | 11/11/2019  | 19.6             | 727                  | 0.63                    | -82.6    | 0.475     | 2.03            | 6.75 |
| OLF-G73 (Port 2)   | Multi-Level | 11/11/2019  | 19.2             | 511.1                | 1.30                    | -45.7    | 0.332     | 1.41            | 6.63 |
| OLF-G73 (Port 3)   | Multi-Level | 11/11/2019  | 18.9             | 460.1                | 1.50                    | -149.6   | 0.299     | 2.76            | 6.79 |
| OLF-G73 (Port 4)   | Multi-Level | 11/11/2019  | 18.7             | 473.1                | 1.04                    | -135.2   | 0.308     | 3.54            | 7.23 |
| OLF-G73 (Port 5)   | Multi-Level | 11/11/2019  | 18.2             | 436.5                | 0.97                    | -127.3   | 0.283     | 0.73            | 7.20 |
| OLF-G74 (Port 1)   | Multi-Level | 11/11/2019  | 18.2             | 71.1                 | 3.02                    | 196.1    | 0.046     | 1.19            | 6.35 |
| OLF-G74 (Port 2)   | Multi-Level | 11/11/2019  | 18.4             | 340.5                | 0.87                    | 56.0     | 0.222     | 1.21            | 6.09 |
| OLF-G74 (Port 3)   | Multi-Level | 11/11/2019  | 18.5             | 470.3                | 0.94                    | 7.5      | 0.306     | 1.12            | 7.07 |
| OLF-G74 (Port 4)   | Multi-Level | 11/11/2019  | 18.6             | 445.5                | 1.25                    | -73.4    | 0.290     | 0.84            | 7.22 |
| OLF-G74 (Port 5)   | Multi-Level | 11/11/2019  | 19.1             | 434.8                | 0.90                    | -79.7    | 0.283     | 2.23            | 7.29 |
| OLF-G75 (Screen 1) | Multi-Level | 11/13/2019  | 9.9              | 26.9                 | 5.11                    | 212.4    | 0.018     | 30.63           | 5.44 |
| OLF-G75 (Screen 2) | Multi-Level | 11/13/2019  | 10.8             | 129.7                | 4.28                    | 108.2    | 0.085     | 17.86           | 6.45 |
| OLF-G75 (Screen 3) | Multi-Level | 11/13/2019  | 14.5             | 454.8                | 1.73                    | 86.3     | 0.296     | 12.36           | 7.46 |
| OLF-G75 (Screen 4) | Multi-Level | 11/12/2019  | 7.3              | 261.2                | 3.06                    | 90.0     | 0.170     | 144.1           | 6.87 |
| OLF-G75 (Screen 5) | Multi-Level | 11/12/2019  | 7.2              | 405.7                | 7.15                    | 9.4      | 0.263     | 351.6           | 7.38 |
| OLF-G75 (Screen 6) | Multi-Level | 11/12/2019  | 12.1             | 461.5                | 1.43                    | 24.9     | 0.300     | 179.5           | 7.49 |
| OLF-G77            | Transition  | 11/20/2019  | 18.8             | 344.9                | 1.01                    | 129.7    | 0.225     | 1.1             | 6.05 |
| OLF-G78            | Transition  | 11/20/2019  | 21.0             | 94.7                 | 3.32                    | 170.3    | 0.062     | 1.1             | 5.57 |
| PPMP-229-GP12      | Bedrock     | 11/13/2019  | 14.6             | 247.7                | 0.39                    | -118.0   | 0.161     | 2.1             | 8.98 |
| <b>May 2020</b>    |             |             |                  |                      |                         |          |           |                 |      |
| OLF-G07            | Transition  | 5/28/2020   | 19.30            | 84.3                 | 3.30                    | 264.4    | 0.055     | 7.5             | 4.76 |
| OLF-G12            | Transition  | 5/29/2020   | 26.50            | 89.6                 | 5.03                    | 165.4    | 0.059     | 4.4             | 5.27 |
| OLF-G18            | Transition  | 5/27/2020   | 23.90            | 109.5                | 0.59                    | -69.2    | 0.072     | 12.0            | 5.49 |

**Table 4-4: Groundwater Field Parameters,  
November 2019 to May 2020  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| Well ID          | Well Type    | Sample Date | Temperature (°C) | Conductivity (µs/cm) | Dissolved Oxygen (mg/L) | ORP (mV) | TDS (g/L) | Turbidity (NTU) | pH   |
|------------------|--------------|-------------|------------------|----------------------|-------------------------|----------|-----------|-----------------|------|
| OLF-G19          | Transition   | 5/27/2020   | 22.70            | 56.4                 | 5.62                    | 14.1     | 0.036     | 25.6            | 4.99 |
| OLF-G20          | Bedrock      | 5/28/2020   | 22.50            | 718.0                | 1.19                    | -224.3   | 0.468     | 0.0             | 7.20 |
| OLF-G21          | Bedrock      | 5/27/2020   | 20.60            | 489.5                | 1.03                    | -100.8   | 0.319     | 3.0             | 7.31 |
| OLF-G22          | Bedrock      | 5/27/2020   | 20.70            | 392.7                | 4.75                    | -26.4    | 0.255     | 0.0             | 6.39 |
| OLF-G23          | Bedrock      | 5/28/2020   | 29.00            | 329.7                | 4.08                    | -103.7   | 0.215     | 0.4             | 6.15 |
| OLF-G24          | Transition   | 5/26/2020   | 20.90            | 47.1                 | 3.60                    | 181.5    | 0.031     | 19.8            | 5.08 |
| OLF-G26          | Transition   | 5/20/2020   | 23.90            | 198.1                | 4.02                    | 49.9     | 0.129     | 6.1             | 6.10 |
| OLF-G31          | Bedrock      | 5/19/2020   | 19.10            | 347.3                | 0.93                    | -146.3   | 0.225     | 4.0             | 7.96 |
| OLF-G32          | Deep Bedrock | 5/19/2020   | 17.90            | 213.5                | 3.33                    | 69.0     | 0.139     | 6.1             | 7.82 |
| OLF-G35          | Deep Bedrock | 5/26/2020   | 21.70            | 123.3                | 0.82                    | -66.4    | 0.080     | 2.5             | 7.09 |
| OLF-G36          | Deep Bedrock | 5/27/2020   | 20.40            | 449.3                | 4.84                    | 31.4     | 0.292     | 10.5            | 7.56 |
| OLF-G42          | Bedrock      | 5/28/2020   | 21.10            | 451.1                | 5.22                    | -157.0   | 0.293     | 3.3             | 7.68 |
| OLF-G43          | Bedrock      | 5/20/2020   | 20.00            | 214.4                | 4.15                    | 99.5     | 0.139     | 0.5             | 6.65 |
| OLF-G47          | Bedrock      | 5/26/2020   | 22.00            | 71.9                 | 4.45                    | 23.4     | 0.029     | 2.5             | 7.08 |
| OLF-G48          | Deep Bedrock | 5/26/2020   | 21.60            | 344.9                | 2.98                    | 54.9     | 0.224     | 5.0             | 7.73 |
| OLF-G49          | Transition   | 5/20/2020   | 18.30            | 74.8                 | 4.14                    | 233.5    | 0.049     | 48.6            | 5.13 |
| OLF-G50          | Bedrock      | 5/20/2020   | 18.20            | 168.9                | 7.79                    | 179.1    | 0.110     | 22.8            | 6.16 |
| OLF-G51          | Deep Bedrock | 5/20/2020   | 18.90            | 332.0                | 4.43                    | 124.2    | 0.217     | 8.2             | 6.91 |
| OLF-G52          | Deep Bedrock | 5/19/2020   | 20.70            | 342.1                | 1.72                    | -112.8   | 0.222     | 7.6             | 8.41 |
| OLF-G70          | Deep Bedrock | 5/19/2020   | 21.00            | 340.3                | 2.54                    | 4.6      | 0.221     | 3.7             | 7.78 |
| OLF-G71 (Port 1) | Multi-Level  | 5/19/2020   | 18.60            | 974.0                | 0.50                    | -101.1   | 0.631     | 7.2             | 7.62 |
| OLF-G71 (Port 2) | Multi-Level  | 5/19/2020   | 18.30            | 711.0                | 1.11                    | -93.8    | 0.462     | 4.4             | 7.37 |
| OLF-G71 (Port 3) | Multi-Level  | 5/19/2020   | 19.40            | 881.0                | 1.01                    | -48.9    | 0.572     | 1.3             | 7.08 |
| OLF-G71 (Port 4) | Multi-Level  | 5/19/2020   | 18.60            | 606.0                | 0.98                    | -91.4    | 0.397     | 1.4             | 7.39 |
| OLF-G71 (Port 5) | Multi-Level  | 5/19/2020   | 18.30            | 551.4                | 0.91                    | -56.6    | 0.358     | 1.1             | 7.33 |
| OLF-G72 (Port 1) | Multi-Level  | 5/19/2020   | 21.30            | 1037.0               | 1.20                    | -108.6   | 0.676     | 7.5             | 6.88 |
| OLF-G72 (Port 2) | Multi-Level  | 5/19/2020   | 22.40            | 1172.0               | 0.75                    | -86.6    | 0.761     | 4.0             | 6.73 |
| OLF-G72 (Port 3) | Multi-Level  | 5/19/2020   | 21.50            | 688.0                | 0.41                    | -72.5    | 0.449     | 1.6             | 7.21 |
| OLF-G72 (Port 4) | Multi-Level  | 5/19/2020   | 23.60            | 1054.0               | 1.38                    | -73.6    | 0.683     | 14.7            | 6.80 |

**Table 4-4: Groundwater Field Parameters,  
November 2019 to May 2020  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| Well ID            | Well Type   | Sample Date | Temperature (°C) | Conductivity (µs/cm) | Dissolved Oxygen (mg/L) | ORP (mV) | TDS (g/L) | Turbidity (NTU) | pH    |
|--------------------|-------------|-------------|------------------|----------------------|-------------------------|----------|-----------|-----------------|-------|
| OLF-G72 (Port 5)   | Multi-Level | 5/19/2020   | 21.80            | 454.8                | 0.81                    | -84.1    | 0.296     | 5.6             | 7.03  |
| OLF-G72 (Port 6)   | Multi-Level | 5/19/2020   | 22.60            | 451.3                | 1.42                    | -41.4    | 0.293     | 2.9             | 7.02  |
| OLF-G73 (Port 1)   | Multi-Level | 5/18/2020   | 20.00            | 633.0                | 0.74                    | -77.3    | 0.429     | 1.8             | 6.49  |
| OLF-G73 (Port 2)   | Multi-Level | 5/18/2020   | 26.50            | 537.0                | 0.76                    | -45.4    | 0.351     | 1.8             | 6.83  |
| OLF-G73 (Port 3)   | Multi-Level | 5/18/2020   | 26.80            | 565.0                | 0.78                    | -127.5   | 0.371     | 4.6             | 7.09  |
| OLF-G73 (Port 4)   | Multi-Level | 5/18/2020   | 22.40            | 461.0                | 0.80                    | -136.8   | 0.300     | 4.4             | 7.05  |
| OLF-G73 (Port 5)   | Multi-Level | 5/18/2020   | 22.90            | 438.1                | 0.94                    | -112.0   | 0.285     | 4.2             | 7.39  |
| OLF-G74 (Port 1)   | Multi-Level | 5/18/2020   | 25.80            | 90.9                 | 1.01                    | 50.4     | 0.059     | 5.0             | 5.67  |
| OLF-G74 (Port 2)   | Multi-Level | 5/18/2020   | 23.00            | 360.7                | 0.95                    | -9.3     | 0.235     | 1.8             | 6.09  |
| OLF-G74 (Port 3)   | Multi-Level | 5/18/2020   | 28.20            | 465.8                | 1.52                    | -128.5   | 0.303     | 4.1             | 6.93  |
| OLF-G74 (Port 4)   | Multi-Level | 5/18/2020   | 22.10            | 445.6                | 0.76                    | -96.9    | 0.290     | 3.2             | 7.39  |
| OLF-G74 (Port 5)   | Multi-Level | 5/18/2020   | 25.10            | 434.0                | 0.80                    | -104.7   | 0.282     | 1.6             | 8.10  |
| OLF-G75 (Screen 1) | Multi-Level | 5/18/2020   | 23.20            | 30.5                 | 5.03                    | 231.1    | 0.020     | 42.3            | 5.15  |
| OLF-G75 (Screen 2) | Multi-Level | 5/18/2020   | 23.10            | 440.7                | 1.17                    | 41.3     | 0.287     | 9.3             | 7.53  |
| OLF-G75 (Screen 3) | Multi-Level | 5/18/2020   | 19.10            | 439.9                | 1.68                    | 29.2     | 0.286     | 9.4             | 7.54  |
| OLF-G75 (Screen 4) | Multi-Level | 5/18/2020   | 28.80            | 445.6                | 2.01                    | 13.2     | 0.289     | 10.8            | 7.51  |
| OLF-G75 (Screen 5) | Multi-Level | 5/18/2020   | 24.70            | 444.1                | 2.96                    | 36.6     | 0.289     | 5.6             | 7.57  |
| OLF-G75 (Screen 6) | Multi-Level | 5/18/2020   | 19.80            | 446.4                | 1.37                    | 64.3     | 0.290     | 3.1             | 7.55  |
| OLF-G77            | Transition  | 5/28/2020   | 19.10            | 351.0                | 2.19                    | 151.7    | 0.228     | 10.0            | 5.92  |
| OLF-G78            | Transition  | 5/28/2020   | 20.30            | 110.1                | 3.16                    | 183.5    | 0.072     | 11.0            | 5.47  |
| PPMP-229-GP12      | Bedrock     | 5/20/2020   | 20.80            | 240.2                | 4.34                    | -137.7   | 0.157     | 1.3             | 10.66 |

**Notes:**

°C = Degrees Celsius

mg/L = Milligrams per liter

µs/cm = Microsiemens per centimeter

mV = Millivolts

NM = Not measured

NTU = Nephelometric turbidity units

ORP = Oxidation-reduction potential

TDS = Total Dissolved Solids

**Table 4-5: On-Site Groundwater Analytical Results for Corrective Action COCs,  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G07 |         |         |         |         |          |         |          |        |          |         |
|---------------------------|------|-----------|---------|---------|---------|---------|---------|----------|---------|----------|--------|----------|---------|
|                           |      |           | 7/29/04 | 2/22/06 | 1/14/08 | 1/20/11 | 6/14/16 | 11/13/17 | 5/16/18 | 11/13/18 | 5/7/19 | 11/20/19 | 5/28/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | 39      | 130     | 150     | 96      | 48      | 25       | 51      | 29 F1    | 96     | 67       | 180     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | 0.55 J  | 1.1     | 1.9     | 1.3     | 0.71 J  | 0.4 J    | 0.61 J  | < 1      | 1.2    | 1.0      | 2.0     |
| Tetrachloroethylene       | 5    | MCL       | 0.28 J  | < 1     | 0.47 J  | 0.34 J  | 0.28 J  | 0.32 J   | < 1     | < 1      | < 1    | < 1      | 0.99 J  |
| Trichloroethene           | 205  | GS RBTL   | 17      | 18      | 43      | 32      | 22      | 20       | 26      | 19       | 48     | 34       | 83      |
| Vinyl Chloride            | 3.86 | GS RBTL   | < 1     | < 1     | < 1     | < 0.8   | < 0.8   | < 0.8    | < 1     | < 1      | < 1    | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G19 |          |         |
|---------------------------|------|-----------|---------|----------|---------|
|                           |      |           | 8/13/04 | 11/19/19 | 5/27/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | < 1     | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | < 1     | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1     | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | < 1     | < 1      | < 1     |
| Vinyl Chloride            | 3.86 | GS RBTL   | < 1     | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G20 |         |         |         |         |          |         |          |        |          |         |
|---------------------------|------|-----------|---------|---------|---------|---------|---------|----------|---------|----------|--------|----------|---------|
|                           |      |           | 7/29/04 | 2/24/06 | 1/15/08 | 1/20/11 | 6/22/16 | 11/13/17 | 5/23/18 | 11/13/18 | 5/7/19 | 11/20/19 | 5/28/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | 0.69 J  | < 1     | < 1     | < 1     | 18      | < 1      | < 1     | 1.3      | < 1    | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | 0.6 J   | 0.6 J   | 0.73 J  | < 1     | 1.4     | < 1      | < 1     | < 1      | < 1    | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | 0.29 J  | < 1     | < 1     | < 1     | 0.48 J  | < 1      | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 50      | 36      | 51      | 0.31 J  | 120     | 25       | 15      | 16       | 9.2    | 11       | 7.7     |
| Vinyl Chloride            | 3.86 | GS RBTL   | 7.3     | 7       | 11      | < 0.8   | 10      | 7.5      | 8       | 10       | 6.5    | 7.8      | 8.4     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G42 |         |         |         |         |         |          |         |          |         |
|---------------------------|------|-----------|---------|---------|---------|---------|---------|---------|----------|---------|----------|---------|
|                           |      |           | 8/12/04 | 2/21/06 | 1/15/08 | 1/24/11 | 9/21/15 | 5/23/18 | 11/19/18 | 5/13/19 | 11/20/19 | 5/28/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1      | < 1     | < 1      | 1.4     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1      | < 1     | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1      | < 1     | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 2.9     | 4.6     | 3.7     | 2.8     | 3.1     | 0.55 J  | 0.82 J   | 11      | 0.69 J   | 9.3     |
| Vinyl Chloride            | 3.86 | GS RBTL   | 5.4     | 0.94 J  | 75      | 47      | 12      | 1.9     | 29       | 1.4     | 27       | 1.8     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G71-PORT1 |         |         |         |          |        |          |         |
|---------------------------|------|-----------|---------------|---------|---------|---------|----------|--------|----------|---------|
|                           |      |           | 2/18/16       | 6/22/16 | 11/7/17 | 5/16/18 | 11/14/18 | 5/6/19 | 11/12/19 | 5/19/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | 32            | 9.4     | 0.21    | 5       | 5.8      | 7.4    | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | 2.0 J         | 1.1     | < 1     | < 2     | < 1      | 0.55 J | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1           | 0.46 J  | < 1     | < 2     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 99            | 77      | 15      | 47      | 47       | 83     | 43       | 46      |
| Vinyl Chloride            | 3.86 | GS RBTL   | 5.5           | 5       | 4.8     | 6.9     | 6.7      | 6.2    | 4.7      | 10      |

**Table 4-5: On-Site Groundwater Analytical Results for Corrective Action COCs,  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G71-PORT2 |         |         |         |          |        |          |         |
|---------------------------|------|-----------|---------------|---------|---------|---------|----------|--------|----------|---------|
|                           |      |           | 2/18/16       | 6/22/16 | 11/7/17 | 5/16/18 | 11/14/18 | 5/6/19 | 11/12/19 | 5/19/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | 36            | 4.1     | < 1     | < 1     | < 1      | < 1    | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | 2.2 J         | 0.81 J  | < 1     | < 1     | < 1      | < 1    | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1           | 0.25 J  | < 1     | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 99            | 39      | 12      | 9.7     | 11       | 10     | 5.3      | 0.70 J  |
| Vinyl Chloride            | 3.86 | GS RBTL   | 5.1           | 3.8     | 2       | 2.8     | 2.4      | 2.3    | 1.9      | 0.84 J  |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G71-PORT3 |         |         |         |          |        |          |         |
|---------------------------|------|-----------|---------------|---------|---------|---------|----------|--------|----------|---------|
|                           |      |           | 2/18/16       | 6/22/16 | 11/7/17 | 5/16/18 | 11/14/18 | 5/6/19 | 11/12/19 | 5/19/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | 35            | 8.9     | 1.4     | 1.1     | 0.88 J   | 0.73 J | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | 2.1 J         | 0.64 J  | < 1     | < 1     | < 1      | < 1    | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1           | 0.35 J  | < 1     | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 93            | 46      | 47      | 58      | 54       | 52     | 33       | 49      |
| Vinyl Chloride            | 3.86 | GS RBTL   | 5.7           | 6.9     | 3.8     | 3.8     | 4.3      | 3.6    | 2.6      | 4.5     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G71-PORT4 |         |         |         |          |        |          |         |
|---------------------------|------|-----------|---------------|---------|---------|---------|----------|--------|----------|---------|
|                           |      |           | 2/18/2016     | 6/22/16 | 11/7/17 | 5/16/18 | 11/14/18 | 5/6/19 | 11/12/19 | 5/19/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | 30            | 2.3     | 1.9     | 1.1     | 0.73 J   | < 1    | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | 2.1 J         | 0.99 J  | 0.25 J  | < 1     | < 1      | < 1    | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | 0.6 J         | < 1     | < 1     | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 100           | 12      | 23      | 25      | 24       | 22     | 3.2      | 8.2     |
| Vinyl Chloride            | 3.86 | GS RBTL   | 5.9           | 2.2     | 1.7     | 1.7     | 2.2      | 1.6    | 0.90 J   | 1.7     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G71-PORT5 |         |         |         |          |        |          |         |
|---------------------------|------|-----------|---------------|---------|---------|---------|----------|--------|----------|---------|
|                           |      |           | 2/18/2016     | 6/22/16 | 11/7/17 | 5/16/18 | 11/14/18 | 5/6/19 | 11/12/19 | 5/19/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | 30            | 0.64 J  | < 1     | < 1     | < 1      | < 1    | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | 2.2 J         | 0.57 J  | < 1     | < 1     | < 1      | < 1    | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1           | < 1     | < 1     | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 61            | 4.8     | 0.97 J  | < 1     | < 1      | 1.3    | < 1      | < 1     |
| Vinyl Chloride            | 3.86 | GS RBTL   | 5.1           | 1.3     | 0.71 J  | < 1     | < 1      | 0.5 J  | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G72-PORT1 |         |         |         |         |         |          |          |          |         |
|---------------------------|------|-----------|---------------|---------|---------|---------|---------|---------|----------|----------|----------|---------|
|                           |      |           | 2/18/2016     | 6/23/16 | 8/15/17 | 11/8/17 | 2/22/18 | 5/17/18 | 11/13/18 | 5/2/19   | 11/12/19 | 5/19/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | 800           | 990     | 160     | 55      | 0.99 J  | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | 19 J          | 23      | 26      | 19      | 3.6     | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | 6.3           | 11      | 0.98 J  | 0.56 J  | 0.55 J  | < 1     | < 1      | < 1      | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 1100          | 1300    | 11      | 4.6     | 0.75 J  | < 1     | < 1      | < 1      | < 1      | < 1     |
| Vinyl Chloride            | 3.86 | GS RBTL   | 37            | 30      | 25      | 26      | 1.9     | 0.52 J  | < 1      | < 1      | 0.81 J   | < 1     |

**Table 4-5: On-Site Groundwater Analytical Results for Corrective Action COCs,  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G72-PORT2 |         |         |         |            |         |          |        |          |         |
|---------------------------|------|-----------|---------------|---------|---------|---------|------------|---------|----------|--------|----------|---------|
|                           |      |           | 2/18/16       | 6/23/16 | 8/15/17 | 11/8/17 | 2/22/18    | 5/17/18 | 11/13/18 | 5/2/19 | 11/12/19 | 5/19/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | 350           | 650     | 110     | 52      | 15 (J)     | 5.1     | < 5      | 0.76 J | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | 13 J          | 19      | 18      | 7.2     | 3.8 (J)    | < 5     | < 5      | < 1    | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | 4.5 J         | 9.2     | 0.74 J  | 0.41 J  | 0.27 J (J) | < 5     | < 5      | < 1    | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 730           | 1200    | 51      | 28      | 12 (J)     | 6.6     | 3.2 J    | 1.7    | 0.61 J   | 1.9     |
| Vinyl Chloride            | 3.86 | GS RBTL   | 47            | 38      | 35      | 18      | 23 (J)     | 18      | 13       | 4.4    | 1.0      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G72-PORT3 |         |         |         |         |         |          |        |          |         |
|---------------------------|------|-----------|---------------|---------|---------|---------|---------|---------|----------|--------|----------|---------|
|                           |      |           | 2/18/2016     | 6/23/16 | 8/15/17 | 11/8/17 | 2/22/18 | 5/17/18 | 11/13/18 | 5/2/19 | 11/12/19 | 5/19/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | 610           | 130     | 75      | 21      | 1.6     | 1.5     | < 1      | < 1    | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | 19 J          | 7.9     | 27      | 12      | 0.87 J  | 0.5 J   | < 1      | < 1    | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | 4.8 J         | 1.9     | 0.63 J  | 0.33 J  | < 1     | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 790           | 250     | 49      | 28      | 12      | 19      | 0.95 J   | 17     | 7.8      | < 1     |
| Vinyl Chloride            | 3.86 | GS RBTL   | 29            | 17      | 22      | 16      | 15      | 6.1     | < 1      | 1.9    | 0.73 J   | 0.67 J  |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G72-PORT4 |         |         |         |         |         |          |        |          |         |
|---------------------------|------|-----------|---------------|---------|---------|---------|---------|---------|----------|--------|----------|---------|
|                           |      |           | 2/18/2016     | 6/23/16 | 8/15/17 | 11/8/17 | 2/22/18 | 5/17/18 | 11/13/18 | 5/2/19 | 11/12/19 | 5/19/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | 290           | 42      | 100     | 38      | 12      | 2.3     | < 1      | < 1    | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | 9.1 J         | 2.4     | 40      | 19      | 5.3     | < 1     | < 1      | < 1    | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | 2.7           | 0.7 J   | 0.58 J  | 0.74 J  | 0.43 J  | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 460           | 94      | 100     | 70      | 28      | 10      | 1.9      | 1.5    | < 1      | < 1     |
| Vinyl Chloride            | 3.86 | GS RBTL   | 16            | 3       | 22      | 13      | 12      | 5.9     | 2.4      | 0.58 J | < 1      | 1.4     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G72-PORT5 |         |         |         |         |         |          |        |          |         |
|---------------------------|------|-----------|---------------|---------|---------|---------|---------|---------|----------|--------|----------|---------|
|                           |      |           | 2/18/2016     | 6/23/16 | 8/15/17 | 11/8/17 | 2/22/18 | 5/17/18 | 11/13/18 | 5/2/19 | 11/12/19 | 5/19/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | 570           | 19      | 6.8     | 1.2     | 0.28 J  | < 1     | < 1      | < 1    | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | 16 J          | 3.2     | 5.6     | 3.5     | 0.49 J  | 0.34 J  | 0.33 J   | 0.48 J | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | 4.5 J         | 0.32 J  | < 1     | < 1     | < 1     | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 780           | 28      | 12      | 2.6     | 6.2     | 9.9     | 8.7      | 22     | 8.8      | 14      |
| Vinyl Chloride            | 3.86 | GS RBTL   | 29            | 2       | 2.3     | 2       | 2.5     | 1.3     | 1.8      | 2.2    | 1.1      | 1.3     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G72-PORT6 |         |         |         |         |         |          |        |          |         |
|---------------------------|------|-----------|---------------|---------|---------|---------|---------|---------|----------|--------|----------|---------|
|                           |      |           | 2/18/2016     | 6/23/16 | 8/15/17 | 11/8/17 | 2/22/18 | 5/17/18 | 11/13/18 | 5/2/19 | 11/12/19 | 5/19/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | 410           | 2.8     | 8.3     | 3.4     | 2.1     | 0.75 J  | < 1      | < 1    | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | 11 J          | 0.39 J  | 1.7     | 1.1     | 0.9 J   | 0.68 J  | 0.69 J   | 0.47 J | 0.47 J   | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1           | < 1     | 0.38 J  | 0.26 J  | 0.26 J  | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 390           | 16      | 64      | 41      | 42      | 47      | 40       | 29     | 27       | 17      |
| Vinyl Chloride            | 3.86 | GS RBTL   | 16            | 0.48 J  | 0.86    | 0.46 J  | 0.53 J  | < 1     | 0.59 J   | < 1    | < 1      | < 1     |

**Table 4-5: On-Site Groundwater Analytical Results for Corrective Action COCs,  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G73-PORT1 |         |         |         |         |         |          |          |          |         |
|---------------------------|------|-----------|---------------|---------|---------|---------|---------|---------|----------|----------|----------|---------|
|                           |      |           | 2/18/2016     | 6/23/16 | 8/14/17 | 11/8/17 | 2/20/18 | 5/17/18 | 11/13/18 | 5/2/19   | 11/11/19 | 5/18/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | 530           | 540     | 110     | 6.5     | < 1     | < 1     | < 1      | < 1      | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | 12            | 13      | 19      | 5.1     | < 1     | < 1     | < 1      | < 1      | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | 2.6           | 4.8     | 0.57 J  | 0.23 J  | < 1     | < 1     | < 1      | < 1      | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 380           | 490     | 4.8     | 1.3     | 0.24 J  | < 1     | < 1      | < 2 (UB) | < 1      | < 1     |
| Vinyl Chloride            | 3.86 | GS RBTL   | 2.3           | 1.3     | 16      | 1.6     | 0.31 J  | < 1     | < 1      | < 1      | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G73-PORT2 |         |         |         |         |         |          |           |          |         |
|---------------------------|------|-----------|---------------|---------|---------|---------|---------|---------|----------|-----------|----------|---------|
|                           |      |           | 2/18/2016     | 6/23/16 | 8/14/17 | 11/8/17 | 2/20/18 | 5/17/18 | 11/13/18 | 5/1/19    | 11/11/19 | 5/18/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | 110           | 82      | 92      | 50      | 9.2     | 2       | < 1      | < 1       | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | 4.3 J         | 3.4     | 7.9     | 4.3     | 0.72 J  | < 1     | < 1      | < 1       | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | 1.1           | 1.4     | 1.1     | 0.68 J  | 0.22 J  | < 1     | < 1      | < 1       | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 140           | 160     | 98      | 52      | 25      | 15      | 2.9      | 3.5 B (B) | 3.7      | 1.6     |
| Vinyl Chloride            | 3.86 | GS RBTL   | < 0.8         | < 0.8   | 3.2     | 9.4     | 7       | 4.1     | 0.81 J   | < 1       | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G73-PORT3 |         |         |         |         |         |          |          |          |         |
|---------------------------|------|-----------|---------------|---------|---------|---------|---------|---------|----------|----------|----------|---------|
|                           |      |           | 2/18/2016     | 6/23/16 | 8/14/17 | 11/8/17 | 2/20/18 | 5/17/18 | 11/13/18 | 5/1/19   | 11/11/19 | 5/18/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | 16            | 10      | 23 (J)  | 28      | 37      | < 1     | 7.8      | 3.1      | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | 1.3 J         | 3.1     | 3.1 J   | 2.8     | 3       | < 1     | 1.2      | 0.96 J   | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1           | 0.33 J  | < 5     | 0.88 J  | 0.79 J  | < 1     | < 1      | < 1      | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 34.0          | 58      | 100     | 130     | 150     | 7.7     | 89       | 61 B (B) | 33       | 13      |
| Vinyl Chloride            | 3.86 | GS RBTL   | < 0.8         | < 0.8   | < 4     | < 0.8   | 0.85    | < 1     | 2.4      | 2.8      | 5.6      | 3.2     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G73-PORT4 |         |         |         |         |         |          |        |          |         |
|---------------------------|------|-----------|---------------|---------|---------|---------|---------|---------|----------|--------|----------|---------|
|                           |      |           | 2/18/2016     | 6/23/16 | 8/14/17 | 11/8/17 | 2/20/18 | 5/17/18 | 11/13/18 | 5/1/19 | 11/11/19 | 5/18/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | 2.7           | 0.25 J  | 4.1     | < 1     | < 1     | < 1     | < 1      | < 1    | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | 1.7 J         | 0.84 J  | 1       | < 1     | < 1     | < 1     | < 1      | < 1    | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1           | < 1     | < 1     | < 1     | < 1     | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 12            | 7.5     | 7.5     | 9.8     | 9.7     | 6.6     | 5.3      | 6.2 H  | 3.5      | 1.6     |
| Vinyl Chloride            | 3.86 | GS RBTL   | < 0.8         | < 0.8   | < 0.8   | < 0.8   | < 0.8   | < 1     | < 1      | < 1    | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G73-PORT5 |         |         |         |         |         |          |        |          |         |
|---------------------------|------|-----------|---------------|---------|---------|---------|---------|---------|----------|--------|----------|---------|
|                           |      |           | 2/18/2016     | 6/23/16 | 8/14/17 | 11/8/17 | 2/20/18 | 5/16/18 | 11/13/18 | 5/1/19 | 11/11/19 | 5/18/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | < 1           | < 1     | < 1     | < 1     | < 1     | < 1     | < 1      | < 1    | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | < 1           | < 1     | < 1     | < 1     | < 1     | < 1     | < 1      | < 1    | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1           | < 1     | < 1     | < 1     | < 1     | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 0.5 J         | 0.27 J  | < 1     | < 1     | < 1     | < 1     | 0.53 J   | < 1    | < 1      | < 1     |
| Vinyl Chloride            | 3.86 | GS RBTL   | < 0.8         | < 0.8   | < 0.8   | < 0.8   | < 0.8   | < 1     | < 1      | < 1    | < 1      | < 1     |

**Table 4-5: On-Site Groundwater Analytical Results for Corrective Action COCs,  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G74-PORT1 |         |          |        |          |         |
|---------------------------|------|-----------|---------------|---------|----------|--------|----------|---------|
|                           |      |           | 2/17/2016     | 5/16/18 | 11/12/18 | 5/1/19 | 11/11/19 | 5/18/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | 2.9           | 3.4     | 4        | 3.3 H  | 3.0      | 2.8     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | < 1           | < 1     | < 1      | < 1    | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1           | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 1.1           | 2.4     | 2.5      | 2.6 H  | 1.9      | 1.3     |
| Vinyl Chloride            | 3.86 | GS RBTL   | < 0.8         | < 1     | < 1      | < 1    | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G74-PORT2 |         |          |        |          |         |
|---------------------------|------|-----------|---------------|---------|----------|--------|----------|---------|
|                           |      |           | 2/17/2016     | 5/16/18 | 11/12/18 | 5/1/19 | 11/11/19 | 5/18/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | 17            | 160     | 89       | 39 H   | 19       | 7       |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | 0.9 J         | 7.8     | 9        | 2.3 H  | 1.0      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 5           | < 5     | 0.82 J   | < 1    | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 17            | 100     | 76       | 76 H   | 53       | 23      |
| Vinyl Chloride            | 3.86 | GS RBTL   | < 0.8         | 16      | 25       | 14 H   | 11       | 6.6     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G74-PORT3 |         |          |        |          |         |
|---------------------------|------|-----------|---------------|---------|----------|--------|----------|---------|
|                           |      |           | 2/17/16       | 5/16/18 | 11/12/18 | 5/1/19 | 11/11/19 | 5/18/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | <1            | 1.6     | 2.5      | < 1    | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | <1            | 0.67 J  | 1        | < 1    | 0.59 J   | < 1     |
| Tetrachloroethylene       | 5    | MCL       | <1            | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 9             | 74      | 98       | 35 H   | 44       | 17      |
| Vinyl Chloride            | 3.86 | GS RBTL   | < 0.8         | < 1     | < 1      | < 1    | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G74-PORT4 |         |          |        |          |         |
|---------------------------|------|-----------|---------------|---------|----------|--------|----------|---------|
|                           |      |           | 2/17/16       | 5/16/18 | 11/12/18 | 5/1/19 | 11/11/19 | 5/18/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | <1            | < 1     | < 1      | < 1    | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | <1            | < 1     | < 1      | < 1    | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | <1            | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | <1            | 7.4     | 8.3      | 9.7 H  | 6.0      | 4.4     |
| Vinyl Chloride            | 3.86 | GS RBTL   | < 0.8         | < 1     | < 1      | < 1    | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G74-PORT5 |         |          |        |          |         |
|---------------------------|------|-----------|---------------|---------|----------|--------|----------|---------|
|                           |      |           | 2/17/16       | 5/16/18 | 11/12/18 | 5/1/19 | 11/11/19 | 5/18/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | <1            | < 1     | < 1      | < 1    | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | <1            | < 1     | < 1      | < 1    | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | <1            | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | <1            | 2.6     | 3.2      | 2.4 H  | 1.6      | 1.2     |
| Vinyl Chloride            | 3.86 | GS RBTL   | < 0.8         | < 1     | < 1      | < 1    | < 1      | < 1     |

**Table 4-5: On-Site Groundwater Analytical Results for Corrective Action COCs,  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G75-SCREEN1 |         |         |          |         |          |         |
|---------------------------|------|-----------|-----------------|---------|---------|----------|---------|----------|---------|
|                           |      |           | 7/29/15         | 9/22/15 | 5/30/18 | 11/26/18 | 5/13/19 | 11/13/19 | 5/18/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | < 1             | < 1     | < 1     | < 1      | < 1     | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | < 1             | < 1     | < 1     | < 1      | < 1     | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1             | < 1     | < 1     | < 1      | < 1     | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | < 1             | 0.6 J   | < 1     | < 1      | < 1     | < 1      | < 1     |
| Vinyl Chloride            | 3.86 | GS RBTL   | < 0.8           | < 0.8   | < 1     | < 1      | < 1     | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G75-SCREEN2 |         |         |          |         |          |         |
|---------------------------|------|-----------|-----------------|---------|---------|----------|---------|----------|---------|
|                           |      |           | 7/29/15         | 9/22/15 | 5/31/18 | 11/26/18 | 5/13/19 | 11/13/19 | 5/18/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | < 1             | 1.4     | < 1     | < 1      | < 1     | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | < 1             | < 1     | < 1     | < 1      | < 1     | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1             | < 1     | < 1     | < 1      | < 1     | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | < 1             | 5.1     | < 1     | 0.81 J   | < 1     | 0.79 J   | < 1     |
| Vinyl Chloride            | 3.86 | GS RBTL   | < 0.8           | < 0.8   | < 1     | < 1      | < 1     | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G75-SCREEN3 |         |         |          |         |          |         |
|---------------------------|------|-----------|-----------------|---------|---------|----------|---------|----------|---------|
|                           |      |           | 7/29/15         | 9/22/15 | 5/31/18 | 11/26/18 | 5/13/19 | 11/13/19 | 5/18/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | < 1             | 1.3     | RNA     | < 1      | < 1     | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | < 1             | < 1     | RNA     | < 1      | < 1     | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1             | < 1     | RNA     | < 1      | < 1     | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | < 1             | 9.1     | RNA     | 3.4      | < 1     | 4.0      | < 1     |
| Vinyl Chloride            | 3.86 | GS RBTL   | < 0.8           | < 0.8   | RNA     | < 1      | < 1     | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G75-SCREEN4 |         |         |          |          |          |         |
|---------------------------|------|-----------|-----------------|---------|---------|----------|----------|----------|---------|
|                           |      |           | 7/29/15         | 9/22/15 | 5/30/18 | 11/27/18 | 5/14/19  | 11/12/19 | 5/18/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | < 1             | < 1     | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | < 1             | < 1     | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1             | < 1     | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | < 1             | < 1     | < 1     | < 1      | < 1 (UJ) | 6.3      | < 1     |
| Vinyl Chloride            | 3.86 | GS RBTL   | < 0.8           | < 0.8   | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G75-SCREEN5 |         |         |          |          |          |         |
|---------------------------|------|-----------|-----------------|---------|---------|----------|----------|----------|---------|
|                           |      |           | 7/29/15         | 9/22/15 | 5/30/18 | 11/27/18 | 5/14/19  | 11/12/19 | 5/18/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | < 1             | < 1     | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | < 1             | < 1     | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1             | < 1     | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | < 1             | < 1     | < 1     | < 1      | < 1 (UJ) | 8.8      | < 1     |
| Vinyl Chloride            | 3.86 | GS RBTL   | < 0.8           | < 0.8   | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |

**Table 4-5: On-Site Groundwater Analytical Results for Corrective Action COCs,  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G75-SCREEN6 |         |         |          |          |          |         |
|---------------------------|------|-----------|-----------------|---------|---------|----------|----------|----------|---------|
|                           |      |           | 7/29/15         | 9/22/15 | 5/30/18 | 11/27/18 | 5/14/19  | 11/12/19 | 5/18/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | < 1             | < 1     | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | < 1             | < 1     | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1             | < 1     | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | < 1             | 0.6 J   | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |
| Vinyl Chloride            | 3.86 | GS RBTL   | < 0.8           | < 0.8   | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G77 |         |         |          |         |         |          |        |          |         |
|---------------------------|------|-----------|---------|---------|---------|----------|---------|---------|----------|--------|----------|---------|
|                           |      |           | 9/21/15 | 6/23/16 | 8/14/17 | 11/13/17 | 2/15/18 | 5/17/18 | 11/13/18 | 5/6/19 | 11/20/19 | 5/28/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | 1600    | 2200    | 1700    | 1200     | 1400    | 1200    | 1000     | 1200   | 1100     | 980     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | 30 J    | 37      | 29      | 28       | 33      | 26      | 27       | 32     | 21       | 28      |
| Tetrachloroethylene       | 5    | MCL       | 38      | 15      | 13      | 9.7      | 7.1     | 7       | < 10     | 6.7    | 6.2      | 5.3     |
| Trichloroethene           | 205  | GS RBTL   | 1600    | 1600    | 1400    | 1100     | 870     | 790     | 620      | 670    | 490 (J)  | 380     |
| Vinyl Chloride            | 3.86 | GS RBTL   | < 0.8   | 5.2     | 3.8     | 2.2      | 3.2     | 5.6     | < 10     | 9.4    | 8.2      | 15      |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G78   |         |          |         |          |        |          |         |
|---------------------------|------|-----------|-----------|---------|----------|---------|----------|--------|----------|---------|
|                           |      |           | 9/21/2015 | 6/23/16 | 11/13/17 | 5/16/18 | 11/12/18 | 5/6/19 | 11/20/19 | 5/28/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | 25        | 34      | 9.9      | 18      | 8        | 9.8    | 5        | 14      |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | < 1       | 0.81 J  | 1.3      | 0.58 J  | 0.39 J   | < 1    | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1       | 0.31 J  | < 1      | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | 30        | 42      | 12       | 22      | 7        | 11     | 3.3      | 16      |
| Vinyl Chloride            | 3.86 | GS RBTL   | < 0.8     | 0.2 J   | 0.2 J    | < 1     | < 1      | < 1    | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | PPMP-229-GP12 |         |         |         |         |          |          |          |         |
|---------------------------|------|-----------|---------------|---------|---------|---------|---------|----------|----------|----------|---------|
|                           |      |           | 1/20/11       | 9/24/15 | 6/14/16 | 11/9/17 | 5/17/18 | 11/14/18 | 5/14/19  | 11/13/19 | 5/20/20 |
| 1,1,2,2-Tetrachloroethane | 13.6 | GS RBTL   | < 1           | < 1     | < 1     | < 1     | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 50.2 | GS RBTL   | < 1           | < 1     | < 1     | < 1     | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1           | < 1     | < 1     | < 1     | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |
| Trichloroethene           | 205  | GS RBTL   | < 1           | < 1     | < 1     | < 1     | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |
| Vinyl Chloride            | 3.86 | GS RBTL   | < 0.8         | < 0.8   | < 0.8   | < 0.8   | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |

**Table 4-5: On-Site Groundwater Analytical Results for Corrective Action COCs,  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

**Notes:**

µg/L = micrograms per liter

Shaded indicates detection greater than the GPS.

GPS = Groundwater Protection Standard

GS = Groundskeeper

MCL = Maximum Contamination Limit

RBTL = Risk-Based Target Level

RNA = Requested; not analyzed due to an oversight.

**Lab Flag**

B = Analyte detected in an associated blank.

H = Extraction or analysis holding time exceeded.

J = Result is estimated; detected between the method detection limit and the reporting limit.

**Validation Flag (in parentheses)**

B = Analyte detected in an associated blank.

J = Result is estimated based on data validation.

UB = Analyte considered not detected based on concentration in associated blank.

UJ = Reporting limit estimated based on QC acceptance criteria outliers.

**Table 4-6: Off-Site Groundwater Analytical Results for Corrective Action COCs,  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G12 |        |         |        |         |          |         |          |        |          |         |
|---------------------------|------|-----------|---------|--------|---------|--------|---------|----------|---------|----------|--------|----------|---------|
|                           |      |           | 8/15/04 | 3/2/06 | 1/14/08 | 2/1/11 | 6/20/16 | 11/16/17 | 5/22/18 | 11/19/18 | 5/9/19 | 11/19/19 | 5/29/20 |
| 1,1,2,2-Tetrachloroethane | 2.03 | RS RBTL   | 390     | 770    | 510     | 370    | 320     | 360      | 390     | 310      | 230    | 150      | 130     |
| 1,1,2-Trichloroethane     | 7.2  | RS RBTL   | 4.2     | 8.3    | 5.9     | 5      | 4.9     | 6.5      | 6       | 6.5      | 4.7 J  | 3.6      | 3.0     |
| Tetrachloroethylene       | 5    | MCL       | 2.3     | 2.2    | 1.1     | 1.3    | 2.4     | 2.8      | < 5     | < 5      | < 5    | 1.2      | 1.1     |
| Trichloroethene           | 38.3 | RS RBTL   | 170     | 230    | 190     | 160    | 210     | 230      | 240     | 200      | 170    | 120      | 99      |
| Vinyl Chloride            | 2    | MCL       | < 1     | < 1    | < 1     | < 0.8  | < 0.8   | < 0.8    | < 5     | < 5      | < 5    | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G18 |         |        |         |          |         |          |        |          |         |
|---------------------------|------|-----------|---------|---------|--------|---------|----------|---------|----------|--------|----------|---------|
|                           |      |           | 8/12/04 | 1/14/08 | 2/1/11 | 6/21/16 | 11/15/17 | 5/23/18 | 11/19/18 | 5/9/19 | 11/19/19 | 5/27/20 |
| 1,1,2,2-Tetrachloroethane | 2.03 | RS RBTL   | < 1     | < 1     | < 1    | < 1     | < 1      | < 1     | < 1      | < 1    | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 7.2  | RS RBTL   | < 1     | < 1     | < 1    | < 1     | < 1      | < 1     | < 1      | < 1    | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1     | < 1     | < 1    | < 1     | < 1      | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 38.3 | RS RBTL   | < 1     | < 1     | < 1    | < 1     | 0.59 J   | < 1     | < 1      | 52     | < 1      | < 1     |
| Vinyl Chloride            | 2    | MCL       | < 1     | < 1     | < 0.8  | < 0.8   | < 0.8    | < 1     | < 1      | < 1    | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G21 |         |         |         |          |         |          |        |          |         |
|---------------------------|------|-----------|---------|---------|---------|---------|----------|---------|----------|--------|----------|---------|
|                           |      |           | 8/12/04 | 1/16/08 | 1/31/11 | 6/21/16 | 11/14/17 | 5/23/18 | 11/19/18 | 5/9/19 | 11/19/19 | 5/27/20 |
| 1,1,2,2-Tetrachloroethane | 2.03 | RS RBTL   | < 1     | < 1     | < 1     | < 1     | < 1      | < 1     | < 1      | < 1    | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 7.2  | RS RBTL   | < 1     | < 1     | < 1     | < 1     | < 1      | < 1     | < 1      | < 1    | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1     | < 1     | < 1     | < 1     | < 1      | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 38.3 | RS RBTL   | < 1     | < 1     | < 1     | < 1     | 0.63 J   | < 1     | < 1      | < 1    | < 1      | < 1     |
| Vinyl Chloride            | 2    | MCL       | < 1     | < 1     | < 0.8   | < 0.8   | < 0.8    | < 1     | < 1      | < 1    | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G22 |        |         |        |         |          |          |          |        |          |         |
|---------------------------|------|-----------|---------|--------|---------|--------|---------|----------|----------|----------|--------|----------|---------|
|                           |      |           | 8/15/04 | 3/2/06 | 1/16/08 | 2/1/11 | 6/20/16 | 11/15/17 | 5/22/18  | 11/27/18 | 5/9/19 | 11/19/19 | 5/27/20 |
| 1,1,2,2-Tetrachloroethane | 2.03 | RS RBTL   | 58      | 37     | 66      | 73     | 100     | 190      | 140      | 100      | 58     | 59       | 49      |
| 1,1,2-Trichloroethane     | 7.2  | RS RBTL   | 0.94 J  | 0.92 J | 1.3     | 1.8    | 2.6     | 5.3      | 4.1 J    | 3        | 2.3    | 2.5      | 2.0     |
| Tetrachloroethylene       | 5    | MCL       | 0.64 J  | 0.25 J | 0.38 J  | 0.5 J  | 1.3     | 1.3      | < 5      | 1        | 0.96 J | 0.82 J   | < 1     |
| Trichloroethene           | 38.3 | RS RBTL   | 63      | 39     | 51      | 87     | 160     | 180      | 160      | 110      | 100    | 110      | 110     |
| Vinyl Chloride            | 2    | MCL       | < 1     | < 1    | < 1     | < 0.8  | < 0.8   | < 0.8    | < 5 (UJ) | 1.4      | 0.7 J  | 1.9      | 1.2     |

**Table 4-6: Off-Site Groundwater Analytical Results for Corrective Action COCs,  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G23 |        |         |        |         |          |         |          |        |            |         |
|---------------------------|------|-----------|---------|--------|---------|--------|---------|----------|---------|----------|--------|------------|---------|
|                           |      |           | 8/15/04 | 3/1/06 | 1/16/08 | 2/1/11 | 6/21/16 | 11/14/17 | 5/21/18 | 11/15/18 | 5/8/19 | 11/18/19   | 5/28/20 |
| 1,1,2,2-Tetrachloroethane | 2.03 | RS RBTL   | 220     | 220    | 300     | 290    | 210     | 260      | 200     | 230      | 150    | 100 (J)    | 96      |
| 1,1,2-Trichloroethane     | 7.2  | RS RBTL   | 2.4     | 2.9    | 2.9     | 4.7    | 4.5     | 6.5      | 5.5     | 7.7      | 5.5    | 3.8 (J)    | 3.1     |
| Tetrachloroethylene       | 5    | MCL       | 1.7     | 0.64 J | 0.87 J  | 1.1    | 1.8     | 1.4      | 1.3     | < 5      | < 5    | 0.76 J (J) | 0.74 J  |
| Trichloroethene           | 38.3 | RS RBTL   | 130     | 93     | 150     | 190    | 210     | 170      | 150     | 160      | 150    | 110 (J)    | 100     |
| Vinyl Chloride            | 2    | MCL       | < 1     | < 1    | < 1     | < 0.8  | < 0.8   | 0.51 J   | 2.8     | 3.2 J    | < 5    | < 1 (UJ)   | 2.5     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G24 |        |         |        |         |          |         |          |        |          |         |
|---------------------------|------|-----------|---------|--------|---------|--------|---------|----------|---------|----------|--------|----------|---------|
|                           |      |           | 8/15/04 | 3/1/06 | 1/14/08 | 2/1/11 | 6/21/16 | 11/14/17 | 5/21/18 | 11/15/18 | 5/8/19 | 11/18/19 | 5/26/20 |
| 1,1,2,2-Tetrachloroethane | 2.03 | RS RBTL   | < 1     | < 1    | < 1     | < 1    | < 1     | < 1      | < 1     | < 1      | < 1    | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 7.2  | RS RBTL   | < 1     | < 1    | < 1     | < 1    | < 1     | < 1      | < 1     | < 1      | < 1    | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1     | < 1    | < 1     | < 1    | < 1     | < 1      | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 38.3 | RS RBTL   | < 1     | < 1    | < 1     | < 1    | < 1     | 1.1      | < 1     | < 1      | < 1    | < 1      | < 1     |
| Vinyl Chloride            | 2    | MCL       | < 1     | < 1    | < 1     | < 0.8  | < 0.8   | < 0.8    | < 1     | < 1      | < 1    | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G26 |         |          |         |
|---------------------------|------|-----------|---------|---------|----------|---------|
|                           |      |           | 8/13/04 | 2/17/06 | 11/20/19 | 5/20/20 |
| 1,1,2,2-Tetrachloroethane | 2.03 | RS RBTL   | < 1     | < 1     | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 7.2  | RS RBTL   | < 1     | < 1     | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1     | 0.39 J  | < 1      | < 1     |
| Trichloroethene           | 38.3 | RS RBTL   | < 1     | < 1     | < 1      | < 1     |
| Vinyl Chloride            | 2    | MCL       | < 1     | < 1     | 1.0      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G31 |         |         |         |         |         |         |          |          |          |         |
|---------------------------|------|-----------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|---------|
|                           |      |           | 8/14/04 | 2/27/06 | 1/17/08 | 1/25/11 | 6/22/16 | 11/9/17 | 5/18/18 | 11/26/18 | 5/15/19  | 11/11/19 | 5/19/20 |
| 1,1,2,2-Tetrachloroethane | 2.03 | RS RBTL   | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1      | < 1      | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 7.2  | RS RBTL   | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1      | < 1      | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1      | < 1      | < 1      | < 1     |
| Trichloroethene           | 38.3 | RS RBTL   | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | 0.57 J  | < 1      | < 1      | < 1      | < 1     |
| Vinyl Chloride            | 2    | MCL       | < 1     | < 1     | < 1     | < 0.8   | < 0.8   | < 0.8   | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |

**Table 4-6: Off-Site Groundwater Analytical Results for Corrective Action COCs,  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G32 |         |         |         |         |         |         |          |          |          |         |
|---------------------------|------|-----------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|---------|
|                           |      |           | 8/18/04 | 2/27/06 | 1/17/08 | 1/25/11 | 6/22/16 | 11/9/17 | 5/18/18 | 11/26/18 | 5/14/19  | 11/11/19 | 5/19/20 |
| 1,1,2,2-Tetrachloroethane | 2.03 | RS RBTL   | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 7.2  | RS RBTL   | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |
| Trichloroethene           | 38.3 | RS RBTL   | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |
| Vinyl Chloride            | 2    | MCL       | < 1     | < 1     | < 1     | < 0.8   | < 0.8   | < 0.8   | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G33 |        |         |        |         |          |         |          |
|---------------------------|------|-----------|---------|--------|---------|--------|---------|----------|---------|----------|
|                           |      |           | 8/16/04 | 3/1/06 | 1/16/08 | 2/2/11 | 6/15/16 | 11/14/17 | 5/21/18 | 11/20/18 |
| 1,1,2,2-Tetrachloroethane | 2.03 | RS RBTL   | 2.2     | 2.3    | 2.2     | < 1    | 4.4     | 3.4      | 3.8     | 4.5      |
| 1,1,2-Trichloroethane     | 7.2  | RS RBTL   | 0.35 J  | 0.34 J | 0.39 J  | < 1    | 0.78 J  | 0.79 J   | 0.69 J  | 0.56 J   |
| Tetrachloroethylene       | 5    | MCL       | 0.54 J  | 0.21 J | 0.29 J  | < 1    | 0.59 J  | 0.59 J   | < 1     | < 1      |
| Trichloroethene           | 38.3 | RS RBTL   | 85      | 44     | 60      | 16     | 91      | 74       | 89      | 97       |
| Vinyl Chloride            | 2    | MCL       | < 1     | < 1    | < 1     | < 0.8  | < 0.8   | < 0.8    | < 1     | < 1      |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G34 |        |         |        |         |          |         |          |
|---------------------------|------|-----------|---------|--------|---------|--------|---------|----------|---------|----------|
|                           |      |           | 8/16/04 | 3/1/06 | 1/16/08 | 2/2/11 | 6/17/16 | 11/14/17 | 5/30/18 | 11/19/18 |
| 1,1,2,2-Tetrachloroethane | 2.03 | RS RBTL   | 6.7     | 5.6    | 5       | < 1    | 34      | 0.45 J   | < 1     | < 1      |
| 1,1,2-Trichloroethane     | 7.2  | RS RBTL   | < 1     | 0.25 J | 0.35 J  | < 1    | 1.1     | < 1      | < 1     | < 1      |
| Tetrachloroethylene       | 5    | MCL       | 0.37 J  | < 1    | < 1     | < 1    | 0.65 J  | < 1      | < 1     | < 1      |
| Trichloroethene           | 38.3 | RS RBTL   | 34      | 20     | 34      | 1.3    | 86      | 2.8      | 2.3     | 1.2      |
| Vinyl Chloride            | 2    | MCL       | < 1     | < 1    | < 1     | < 0.8  | < 0.8   | < 0.8    | < 1     | < 1      |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G35 |        |         |        |         |          |         |          |        |          |         |
|---------------------------|------|-----------|---------|--------|---------|--------|---------|----------|---------|----------|--------|----------|---------|
|                           |      |           | 8/15/04 | 3/1/06 | 1/16/08 | 2/1/11 | 6/21/16 | 11/15/17 | 5/21/18 | 11/15/18 | 5/8/19 | 11/19/19 | 5/26/20 |
| 1,1,2,2-Tetrachloroethane | 2.03 | RS RBTL   | < 1     | < 1    | 1.8     | < 1    | < 1     | 0.43 J   | 1.8     | 1.9      | < 1    | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 7.2  | RS RBTL   | < 1     | < 1    | < 1     | < 1    | < 1     | < 1      | < 1     | < 1      | < 1    | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1     | < 1    | < 1     | < 1    | < 1     | < 1      | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 38.3 | RS RBTL   | 0.39 J  | < 1    | 2.2     | < 1    | 1.4     | 1.4      | 9.3     | 11       | 4.7    | 0.64 J   | < 1     |
| Vinyl Chloride            | 2    | MCL       | < 1     | < 1    | < 1     | < 0.8  | < 0.8   | < 0.8    | < 1     | < 1      | < 1    | < 1      | < 1     |

**Table 4-6: Off-Site Groundwater Analytical Results for Corrective Action COCs,  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G36 |        |         |          |         |          |        |          |         |
|---------------------------|------|-----------|---------|--------|---------|----------|---------|----------|--------|----------|---------|
|                           |      |           | 8/15/04 | 3/2/06 | 6/20/16 | 11/15/17 | 5/30/18 | 11/19/18 | 5/9/19 | 11/19/19 | 5/27/20 |
| 1,1,2,2-Tetrachloroethane | 2.03 | RS RBTL   | < 1     | < 1    | < 1     | 0.33 J   | < 1     | < 1      | 1.4    | 1.2      | < 1     |
| 1,1,2-Trichloroethane     | 7.2  | RS RBTL   | < 1     | < 1    | < 1     | < 1      | < 1     | < 1      | < 1    | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1     | < 1    | < 1     | < 1      | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 38.3 | RS RBTL   | < 1     | < 1    | < 1     | 4        | 1.3     | 0.61 J   | 0.61 J | < 1      | < 1     |
| Vinyl Chloride            | 2    | MCL       | < 1     | < 1    | < 0.8   | < 0.8    | < 1     | < 1      | < 1    | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G43 |         |         |         |          |         |
|---------------------------|------|-----------|---------|---------|---------|---------|----------|---------|
|                           |      |           | 8/16/04 | 2/28/06 | 1/16/08 | 1/31/11 | 11/19/20 | 5/20/20 |
| 1,1,2,2-Tetrachloroethane | 2.03 | RS RBTL   | < 1     | < 1     | < 1     | < 1     | 3.1      | < 1     |
| 1,1,2-Trichloroethane     | 7.2  | RS RBTL   | < 1     | < 1     | < 1     | < 1     | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1     | < 1     | < 1     | < 1     | < 1      | < 1     |
| Trichloroethene           | 38.3 | RS RBTL   | 0.46 J  | 0.34 J  | 0.31 J  | 0.48 J  | 0.89 J   | 0.80 J  |
| Vinyl Chloride            | 2    | MCL       | < 1     | < 1     | < 1     | < 1     | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G47 |         |         |        |         |          |         |          |        |          |         |
|---------------------------|------|-----------|---------|---------|---------|--------|---------|----------|---------|----------|--------|----------|---------|
|                           |      |           | 8/18/04 | 2/28/06 | 1/18/08 | 2/2/11 | 6/16/16 | 11/14/17 | 5/22/18 | 11/28/18 | 5/9/19 | 11/18/19 | 5/26/20 |
| 1,1,2,2-Tetrachloroethane | 2.03 | RS RBTL   | 1       | 1.4     | 1.5     | < 1    | 2.5     | 2        | 1.9     | 1.9      | 2.3    | 1.3      | < 1     |
| 1,1,2-Trichloroethane     | 7.2  | RS RBTL   | < 1     | < 1     | 0.2 J   | < 1    | 0.32 J  | 0.38 J   | < 1     | 0.4 J    | 0.35 J | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1     | < 1     | < 1     | < 1    | < 1     | < 1      | < 1     | < 1      | < 1    | 0.75 J   | < 1     |
| Trichloroethene           | 38.3 | RS RBTL   | 15      | 9.6     | 11      | 3.8    | 28      | 29       | 32      | 34       | 34     | 24       | 1.8     |
| Vinyl Chloride            | 2    | MCL       | < 1     | < 1     | < 1     | 0.28 J | < 0.8   | < 0.8    | < 1     | < 1      | < 1    | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G48 |         |         |        |         |          |         |          |        |          |         |
|---------------------------|------|-----------|---------|---------|---------|--------|---------|----------|---------|----------|--------|----------|---------|
|                           |      |           | 8/18/04 | 2/28/06 | 1/18/08 | 2/3/11 | 6/16/16 | 11/14/17 | 5/22/18 | 11/15/18 | 5/8/19 | 11/18/19 | 5/26/20 |
| 1,1,2,2-Tetrachloroethane | 2.03 | RS RBTL   | < 1     | < 1     | < 1     | < 1    | 0.22 J  | < 1      | < 1     | < 1      | < 1    | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 7.2  | RS RBTL   | < 1     | < 1     | < 1     | < 1    | < 1     | < 1      | < 1     | < 1      | < 1    | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1     | < 1     | < 1     | < 1    | < 1     | < 1      | < 1     | < 1      | < 1    | < 1      | < 1     |
| Trichloroethene           | 38.3 | RS RBTL   | 1       | 0.46 J  | 1.4     | 1.7    | 3.9     | 3.5      | 3.9     | 3.8      | 1.2    | 3.9      | 4.3     |
| Vinyl Chloride            | 2    | MCL       | < 1     | < 1     | < 1     | < 0.8  | < 0.8   | < 0.8    | < 1     | < 1      | < 1    | < 1      | < 1     |

**Table 4-6: Off-Site Groundwater Analytical Results for Corrective Action COCs,  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G49 |         |          |          |
|---------------------------|------|-----------|---------|---------|----------|----------|
|                           |      |           | 8/16/04 | 2/17/06 | 11/13/19 | 05/20/20 |
| 1,1,2,2-Tetrachloroethane | 2.03 | RS RBTL   | < 1     | < 1     | < 1      | < 1      |
| 1,1,2-Trichloroethane     | 7.2  | RS RBTL   | < 1     | < 1     | < 1      | < 1      |
| Tetrachloroethylene       | 5    | MCL       | < 1     | < 1     | < 1      | < 1      |
| Trichloroethene           | 38.3 | RS RBTL   | 1       | 0.46 J  | 1.4      | 1.7      |
| Vinyl Chloride            | 2    | MCL       | < 1     | < 1     | < 1      | < 0.8    |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G50 |         |         |        |          |         |
|---------------------------|------|-----------|---------|---------|---------|--------|----------|---------|
|                           |      |           | 8/16/04 | 2/17/06 | 1/17/08 | 2/3/11 | 11/13/19 | 5/20/20 |
| 1,1,2,2-Tetrachloroethane | 2.03 | RS RBTL   | 11      | 16      | 17      | 15     | 13       | 18      |
| 1,1,2-Trichloroethane     | 7.2  | RS RBTL   | 0.28 J  | 0.5 J   | 0.53 J  | 0.46 J | 0.57 J   | 0.57 J  |
| Tetrachloroethylene       | 5    | MCL       | 0.42 J  | 0.27 J  | 0.29 J  | 0.29 J | < 1      | < 1     |
| Trichloroethene           | 38.3 | RS RBTL   | 51      | 50      | 53      | 46     | 53       | 59      |
| Vinyl Chloride            | 2    | MCL       | < 1     | < 1     | < 1     | < 0.8  | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G51 |         |         |         |          |         |
|---------------------------|------|-----------|---------|---------|---------|---------|----------|---------|
|                           |      |           | 8/16/04 | 2/17/06 | 1/17/08 | 1/31/11 | 11/13/19 | 5/20/20 |
| 1,1,2,2-Tetrachloroethane | 2.03 | RS RBTL   | < 1     | < 1     | 5.8     | 5.2     | 2.5      | 0.89 J  |
| 1,1,2-Trichloroethane     | 7.2  | RS RBTL   | < 1     | < 1     | < 1     | < 1     | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1     | < 1     | < 1     | < 1     | < 1      | < 1     |
| Trichloroethene           | 38.3 | RS RBTL   | 0.42 J  | < 1     | 9.4     | 12      | 14       | 3.2     |
| Vinyl Chloride            | 2    | MCL       | < 1     | < 1     | < 1     | < 0.8   | < 1      | < 1     |

| VOCs (µg/L)               | GPS  | GPS Basis | OLF-G52 |         |         |         |         |         |         |          |        |          |         |
|---------------------------|------|-----------|---------|---------|---------|---------|---------|---------|---------|----------|--------|----------|---------|
|                           |      |           | 8/18/04 | 2/27/06 | 1/18/08 | 1/31/11 | 6/15/16 | 11/8/17 | 5/21/18 | 11/20/18 | 5/9/19 | 11/11/19 | 5/19/20 |
| 1,1,2,2-Tetrachloroethane | 2.03 | RS RBTL   | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1      | < 1    | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 7.2  | RS RBTL   | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1      | < 1    | < 1 (UJ) | < 1     |
| Tetrachloroethylene       | 5    | MCL       | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1      | < 1    | < 1 (UJ) | < 1     |
| Trichloroethene           | 38.3 | RS RBTL   | 4.2     | 2.1     | 2.6     | 3       | 6.4     | 6.7     | 7.7     | 8.7      | 5.9    | 7.7 (J)  | 9.7     |
| Vinyl Chloride            | 2    | MCL       | < 1     | < 1     | < 1     | < 0.8   | < 0.8   | < 0.8   | < 1     | < 1      | < 1    | < 1 (UJ) | < 1     |

**Table 4-6: Off-Site Groundwater Analytical Results for Corrective Action COCs,  
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama**

| VOCs (µg/L)               | GPS  | GPS<br>Basis | OLF-G70 |         |         |         |         |         |          |          |          |         |
|---------------------------|------|--------------|---------|---------|---------|---------|---------|---------|----------|----------|----------|---------|
|                           |      |              | 2/28/06 | 1/17/08 | 1/27/11 | 6/15/16 | 11/8/17 | 5/21/18 | 11/26/18 | 5/15/19  | 11/18/19 | 5/19/20 |
| 1,1,2,2-Tetrachloroethane | 2.03 | RS RBTL      | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1      | < 1      | < 1      | < 1     |
| 1,1,2-Trichloroethane     | 7.2  | RS RBTL      | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1      | < 1      | < 1      | < 1     |
| Tetrachloroethylene       | 5    | MCL          | < 1     | < 1     | < 1     | < 1     | < 1     | < 1     | < 1      | < 1      | < 1      | < 1     |
| Trichloroethene           | 38.3 | RS RBTL      | 2       | 2.8     | 3.7     | 6.5     | 7.4     | 8.2     | 8.1      | 9.3      | 8.3      | 12      |
| Vinyl Chloride            | 2    | MCL          | < 1     | < 1     | < 0.8   | < 0.8   | < 0.8   | < 1     | < 1      | < 1 (UJ) | < 1      | < 1     |

**Notes:**

µg/L = micrograms per liter

Shaded indicates detection greater than the GPS.

GPS = Groundwater Protection Standard

RS = Residential

MCL = Maximum Contamination Limit

NS = Not scheduled to be sampled

RBTL = Risk-Based Target Level

**Lab Flag**

J = Result is estimated; detected between the method detection limit and the reporting limit.

**Validation Flag (in parenthesis)**

UJ = Reporting limit is estimated based on data validation.

## Figures

FILE G:\vis projects\for McClellan\03\_051\_007\active\mxd\F3\_80(6)\CMER\_2019\Figures - Parcel Location Map.mxd 9/18/2019 Rachel Plestid

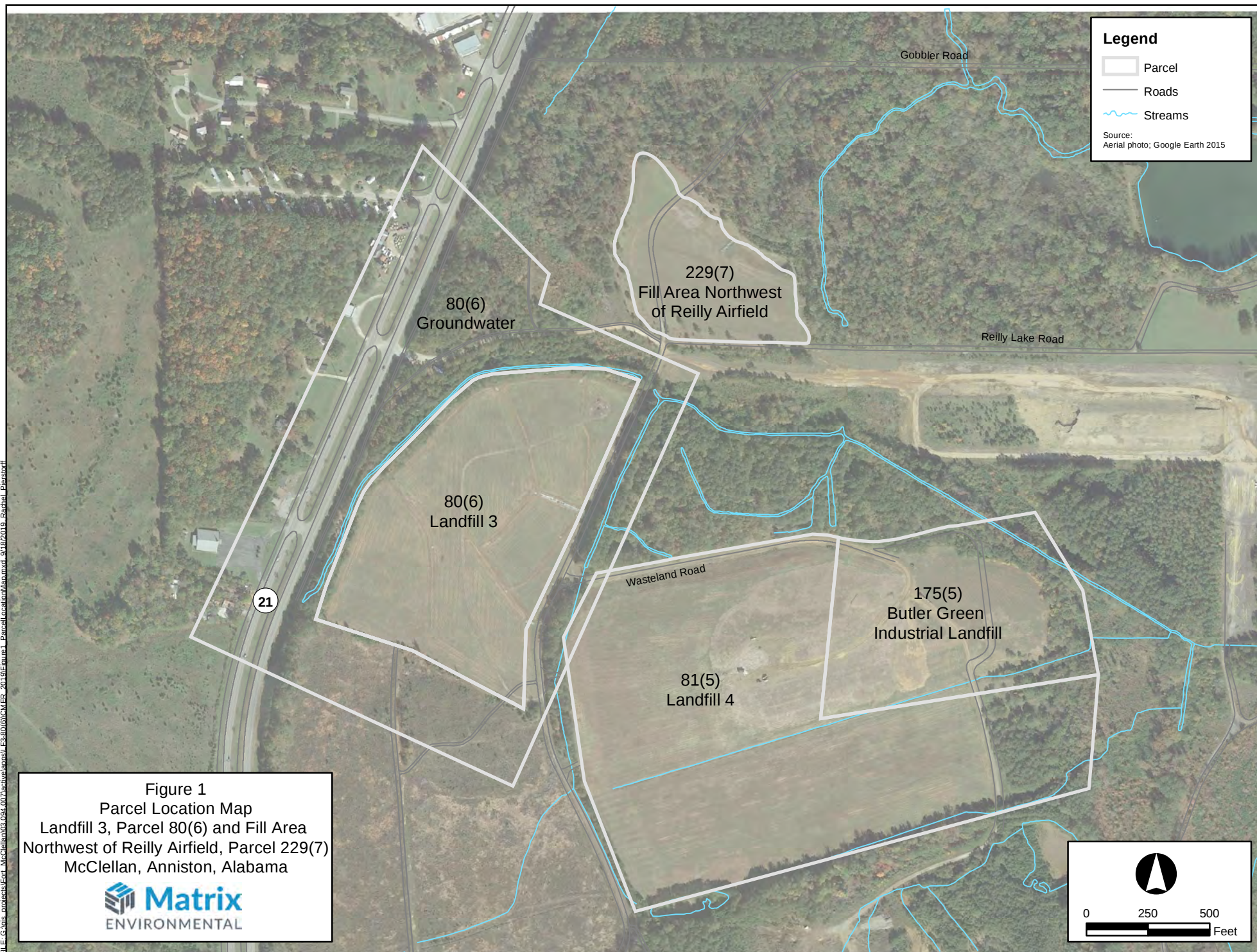


Figure 1  
Parcel Location Map  
Landfill 3, Parcel 80(6) and Fill Area  
Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama





**Matrix**  
ENVIRONMENTAL



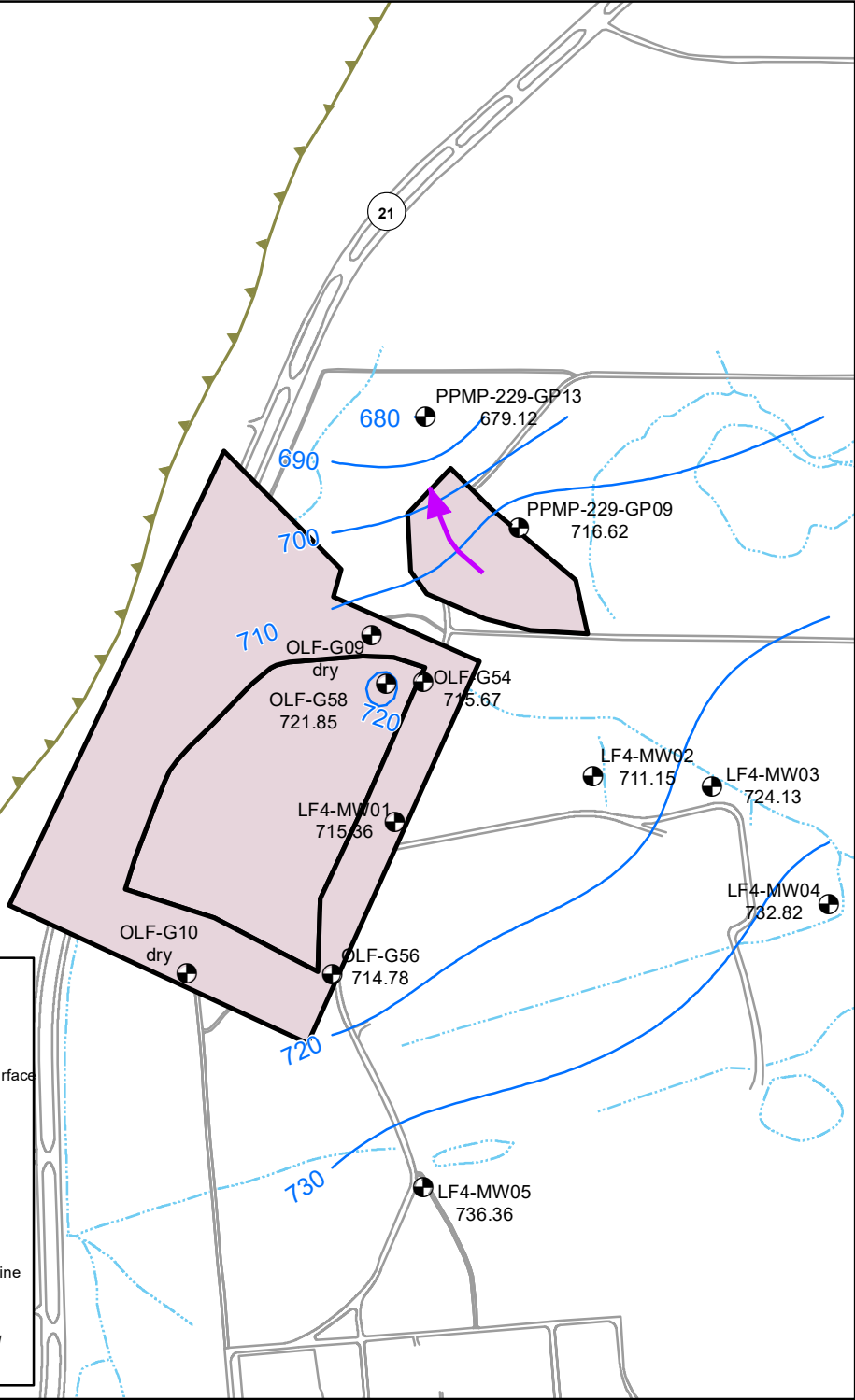
FILE: G:\gis\_projects\Fort\_McClellan\03\_094\_007\active\apps\LF3-80\CMER\_2020\Figure3\_Residuum\_Transition\_GWE\_Nov19\_Correction\_2020\_09\_21\_DAP\_mod\_9/23/2020\_Drew\_Phillips

# Residuum

**Legend**

- Monitoring Well
- Potentiometric Surface
- Flow Direction
- Parcel
- Stream
- Roads
- Estimated Fault Line

*Note:*  
Groundwater elevations in feet  
mean sea level (MSL) collected  
November 2019



# Transition

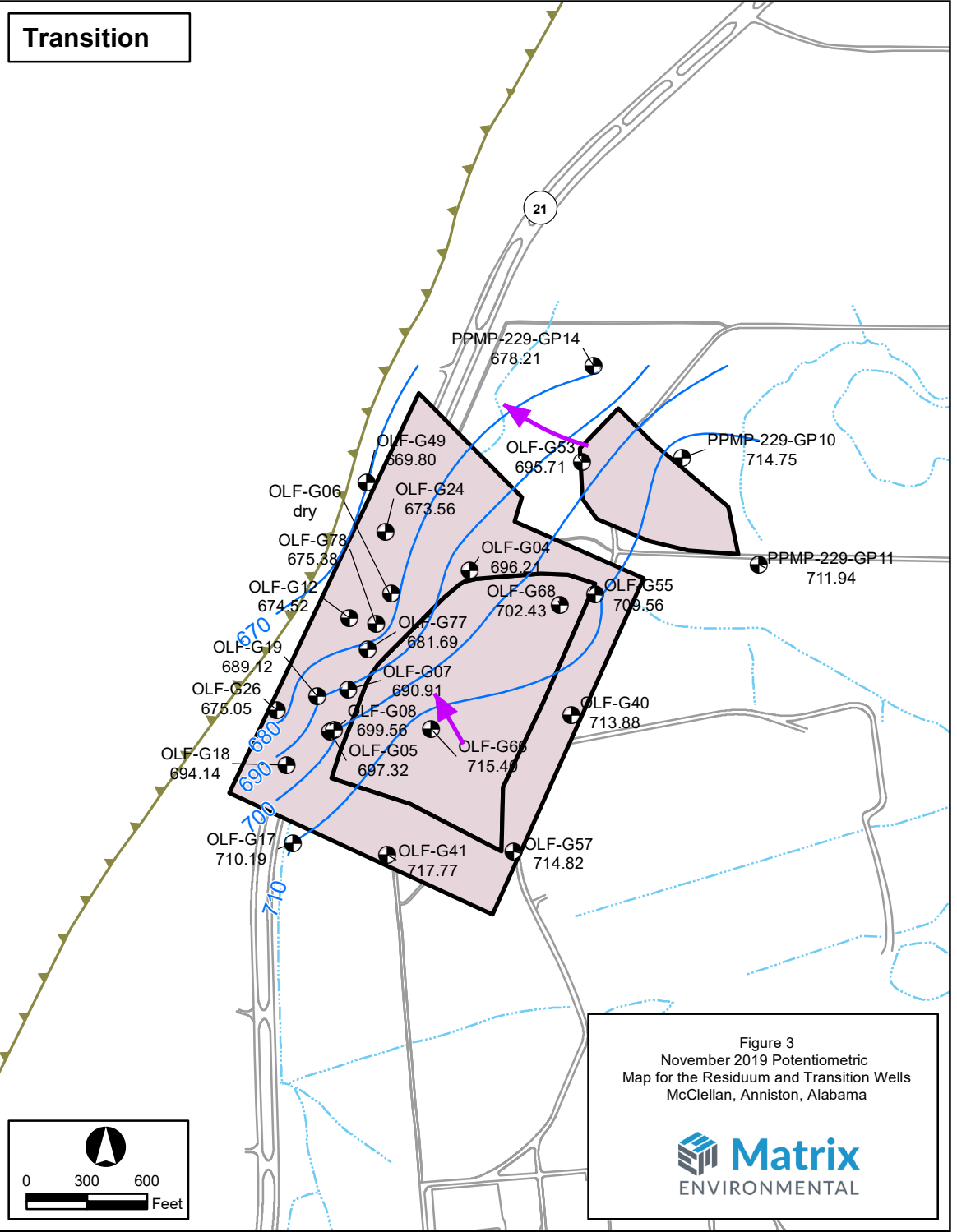
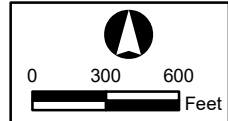
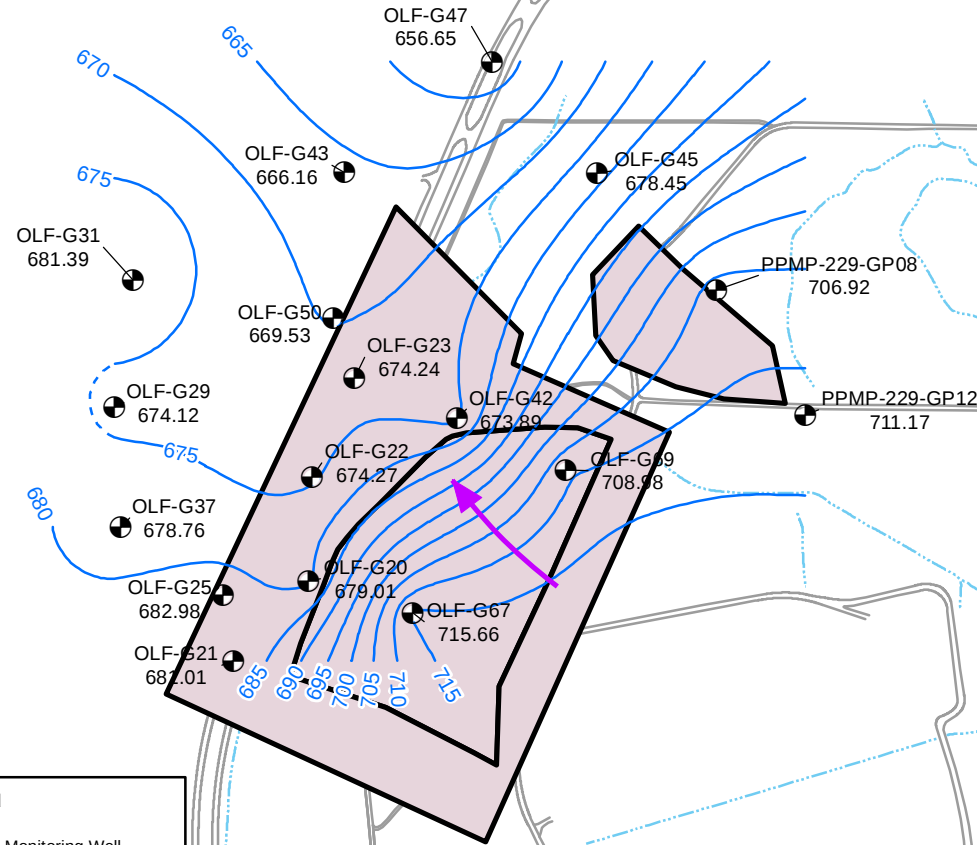


Figure 3  
November 2019 Potentiometric  
Map for the Residuum and Transition Wells  
McClellan, Anniston, Alabama



FILE: G:\gis\_projects\Fort\_McClellan\03\_094\_007\active\map\LE3-80\CMER\_2020\Figure4\_Bedrock\_DeepBedrock\_GWE\_Nov2019\_corrections\_2020\_09\_24\_DAP.mxd, 9/24/2020, Drew Phillips

## Bedrock



### Legend

- Monitoring Well
- Potentiometric Surface
- Flow Direction
- Parcel
- Stream
- Roads
- Estimated Fault Line

Note:  
Groundwater elevations in feet  
mean sea level (MSL) collected  
November 2019

## Deep Bedrock

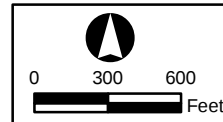
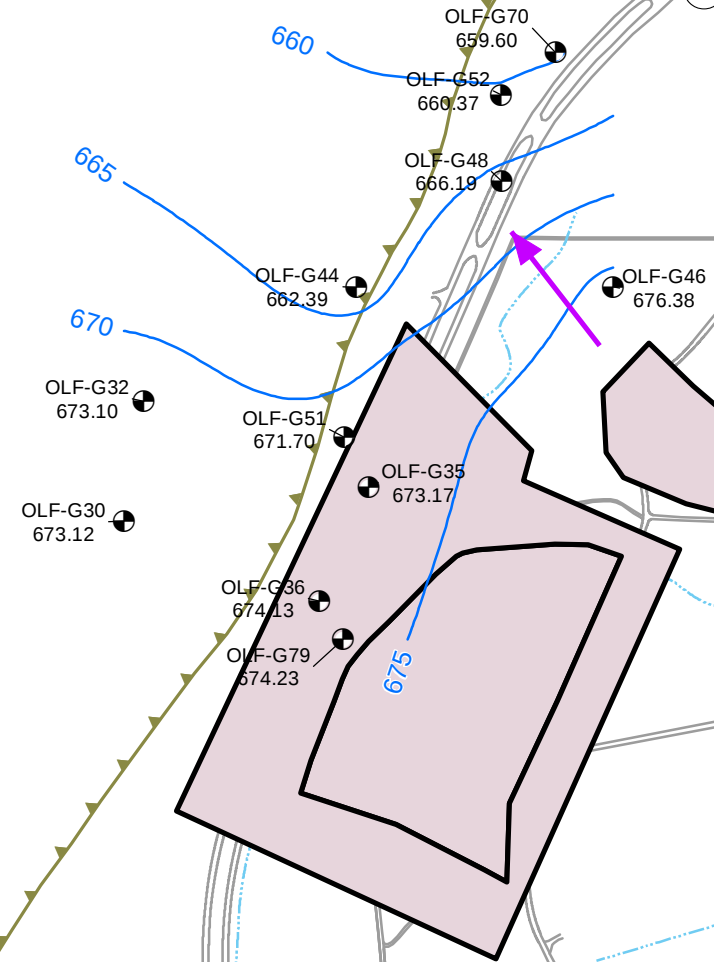
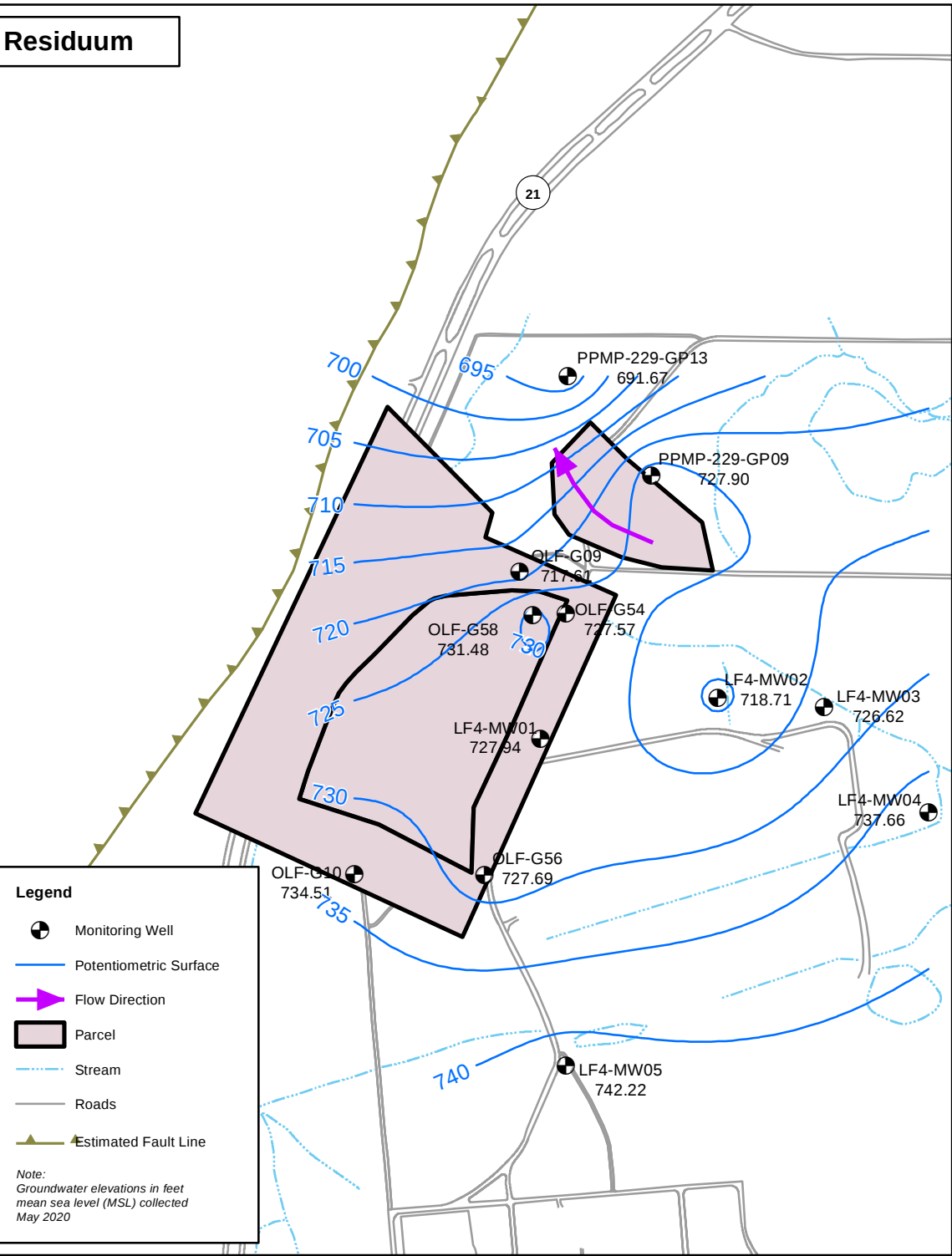


Figure 4  
November 2019 Potentiometric  
Map for the Bedrock and Deep Bedrock Wells  
McClellan, Anniston, Alabama

**Matrix**  
ENVIRONMENTAL

FILE: G:\gis\_projects\Fort\_McClellan\03\_094\_007\active\amps\LF3-80\CMER\_2020\Figure5 Residuum Transition GWE May2020 corrections 2020\_09\_24\_DAP.mxd, 9/24/2020, Drew Phillips

Residuum



- Legend**
- Monitoring Well
  - Potentiometric Surface
  - Flow Direction
  - Parcel
  - Stream
  - Roads
  - Estimated Fault Line

Note:  
Groundwater elevations in feet  
mean sea level (MSL) collected  
May 2020

Transition

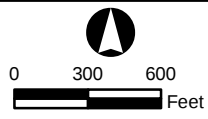
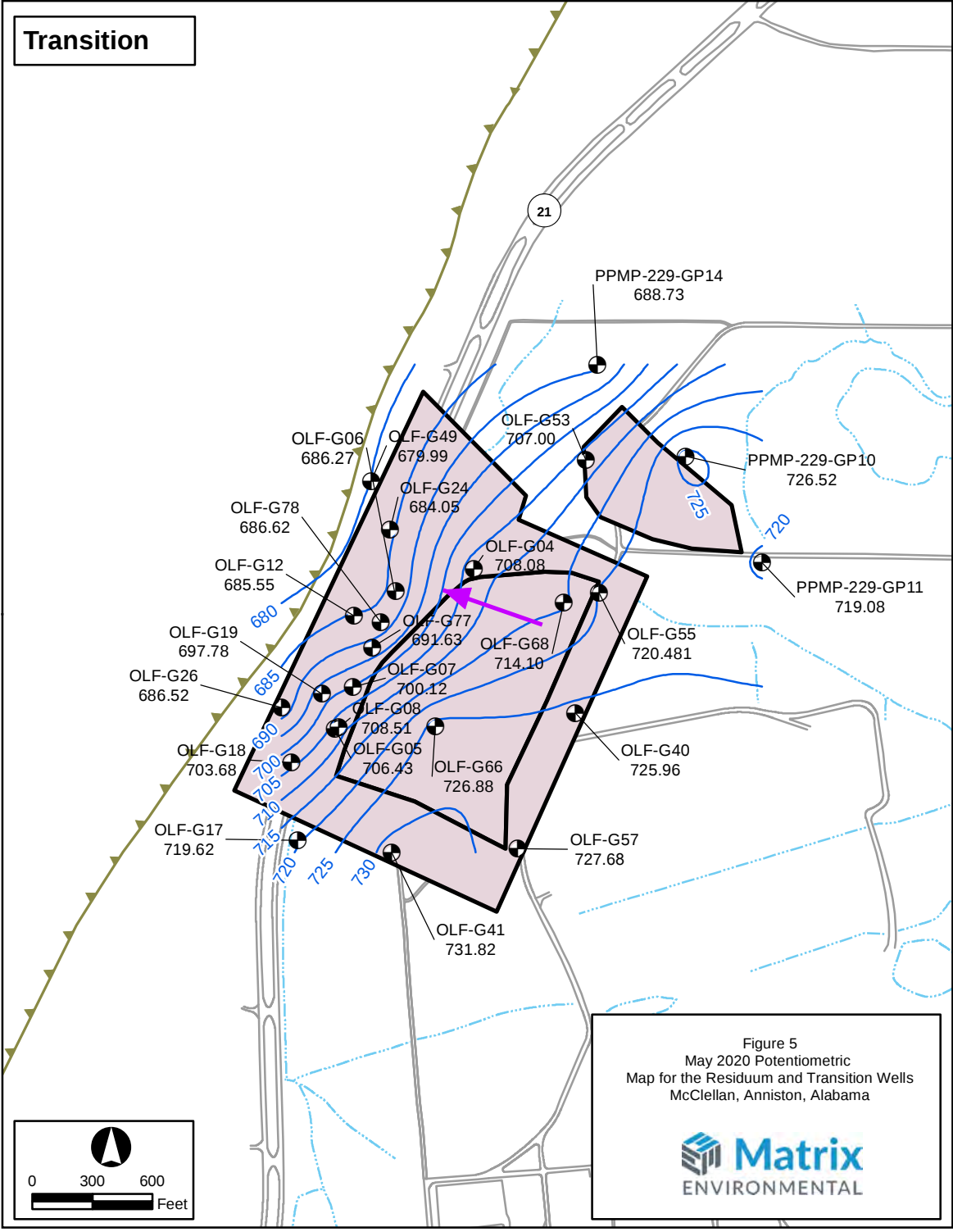
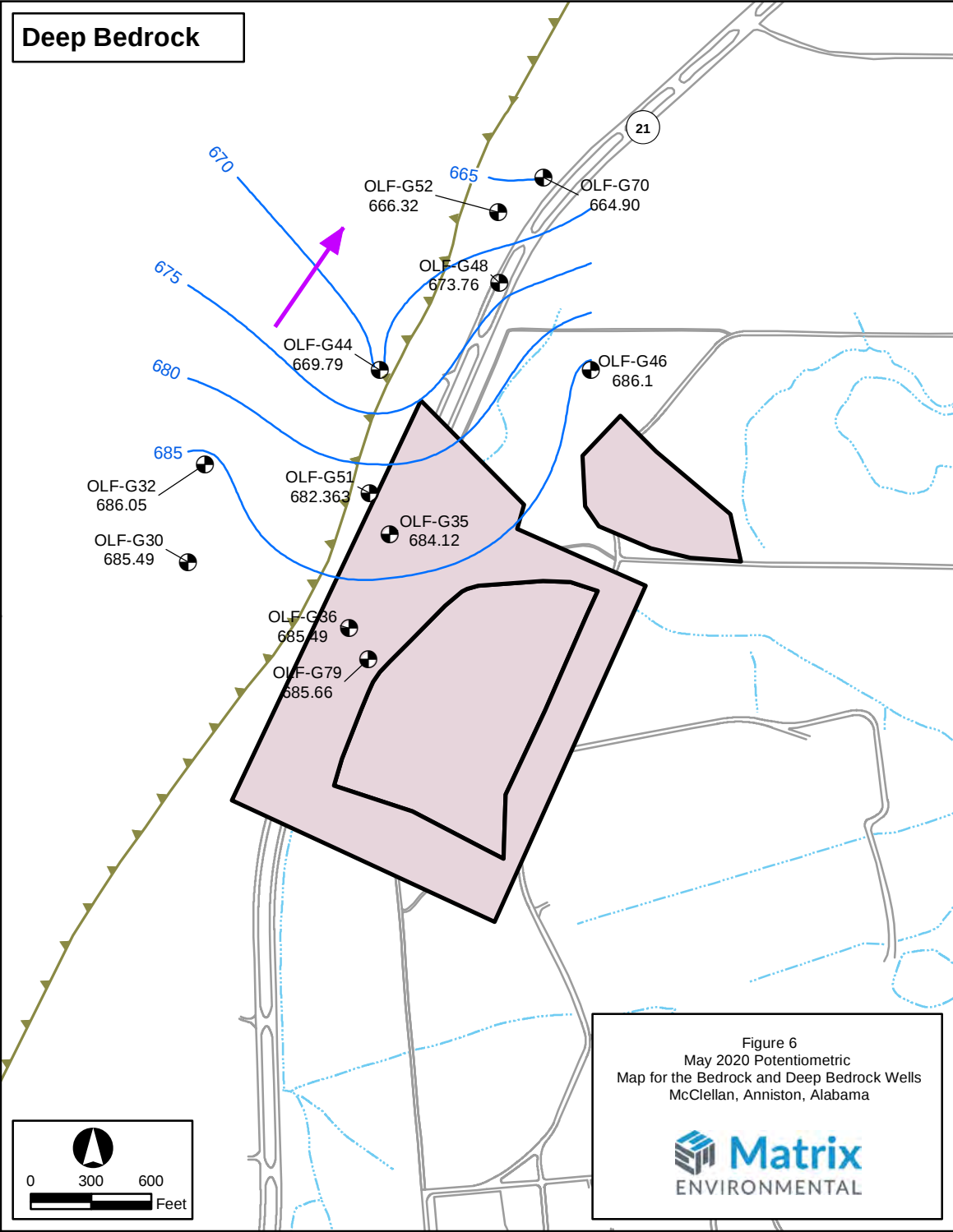
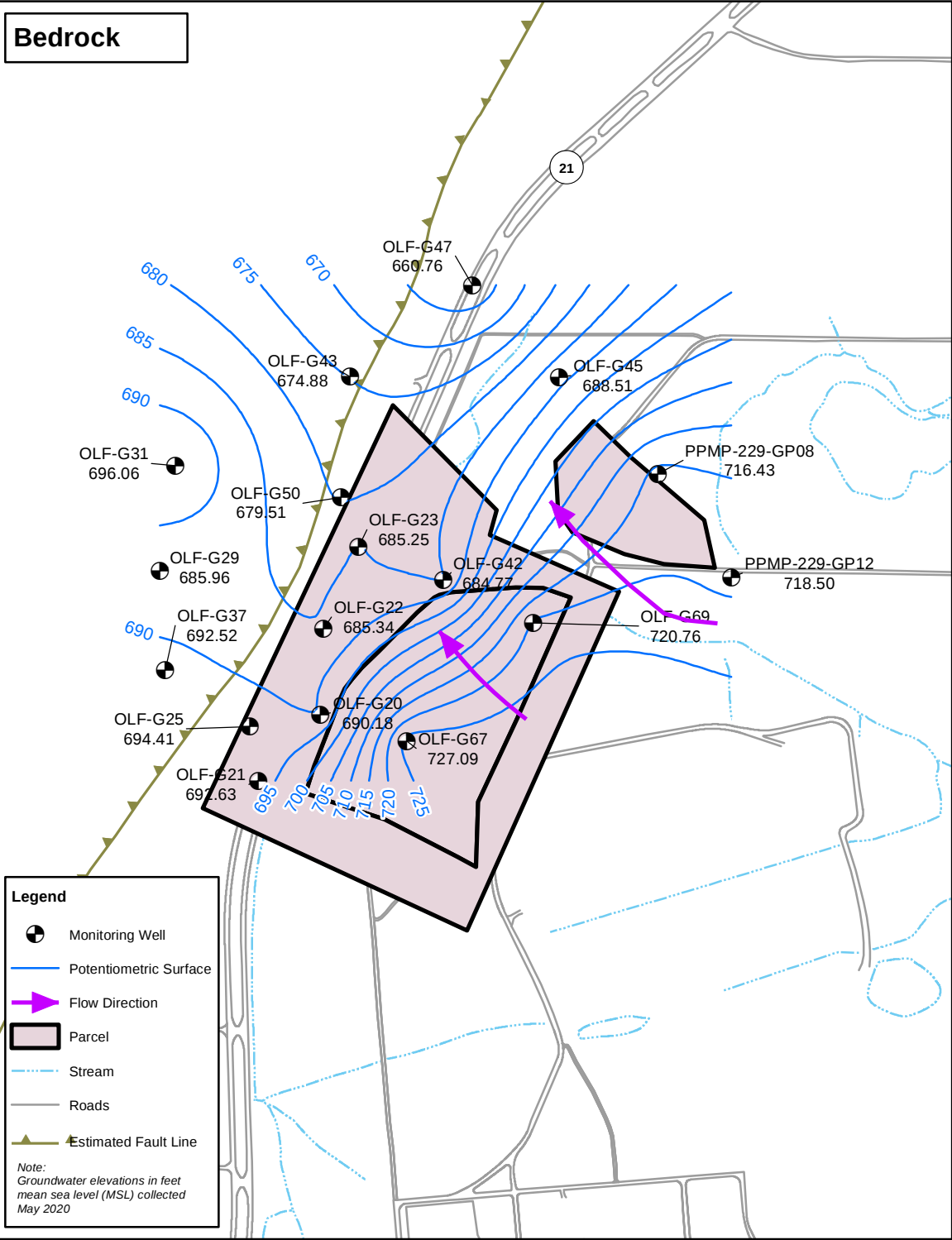


Figure 5  
May 2020 Potentiometric  
Map for the Residuum and Transition Wells  
McClellan, Anniston, Alabama



FILE: G:\gis\_projects\Fort\_McClellan\03\_094\_007\active\map\LE3-80\CMER\_2020\Figure6\_Bedrock\_DeepBedrock\_GWE\_May2020\_corrections\_2020\_09\_24\_DAP.mxd 9/24/2020 Drew Phillips



| OLF-G72 P1  | 11/12/19 | 5/19/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | <1       | <1      |
| VC          | 0.81 J   | <1      |

| OLF-G72 P4  | 11/12/19 | 5/19/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | <1       | <1      |
| VC          | <1       | 1.4     |

| OLF-G72 P2  | 11/12/19 | 5/19/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 0.61 J   | 1.9     |
| VC          | 1.0      | <1      |

| OLF-G72 P5  | 11/12/19 | 5/19/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 8.8      | 14      |
| VC          | 1.1      | 1.3     |

| OLF-G72 P3  | 11/12/19 | 5/19/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 7.8      | <1      |
| VC          | 0.73 J   | 0.67 J  |

| OLF-G72 P6  | 11/12/19 | 5/19/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | 0.47 J   | <1      |
| PERC        | <1       | <1      |
| TCE         | 27       | 17      |
| VC          | <1       | <1      |

| OLF-G07     | 11/20/2019 | 5/28/2020 |
|-------------|------------|-----------|
| 1,1,2,2-TCA | 67         | 180       |
| 1,1,2-TCA   | 1          | 2         |
| PERC        | <1         | 0.99 J    |
| TCE         | 34         | 83        |
| VC          | <1         | <1        |

| OLF-G71 P1  | 11/12/19 | 5/19/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 43       | 46      |
| VC          | 4.7      | 10      |

| OLF-G71 P2  | 11/12/19 | 5/19/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 5.3      | 0.70 J  |
| VC          | 1.9      | 0.84 J  |

| OLF-G71 P3  | 11/12/19 | 5/19/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 33       | 49      |
| VC          | 2.6      | 4.5     |

| OLF-G71 P4  | 11/12/19 | 5/19/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 3.2      | 8.2     |
| VC          | 0.90 J   | 1.7     |

| OLF-G71 P5  | 11/12/19 | 5/19/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | <1       | <1      |
| VC          | <1       | <1      |

| OLF-G19     | 11/19/19 | 5/27/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | <1       | <1      |
| VC          | <1       | <1      |

| OLF-G74 P1  | 11/11/19 | 5/18/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | 3.0      | 2.8     |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 1.9      | 1.3     |
| VC          | <1       | <1      |

| OLF-G74 P2  | 11/11/19 | 5/18/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | 19       | 7.0     |
| 1,1,2-TCA   | 1.0      | <1      |
| PERC        | <1       | <1      |
| TCE         | 53       | 23      |
| VC          | 11       | 6.6     |

| OLF-G74 P3  | 11/11/19 | 5/18/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | 0.59 J   | <1      |
| PERC        | <1       | <1      |
| TCE         | 44       | 17      |
| VC          | <1       | <1      |

| OLF-G74 P4  | 11/11/19 | 5/18/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 6.0      | 4.4     |
| VC          | <1       | <1      |

| OLF-G74 P5  | 11/11/19 | 5/18/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 1.6      | 1.2     |
| VC          | <1       | <1      |

| OLF-G75 S1  | 11/13/19 | 5/18/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | <1       | <1      |
| VC          | <1       | <1      |

| OLF-G75 S2  | 11/13/19 | 5/18/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 0.79 J   | <1      |
| VC          | <1       | <1      |

| OLF-G75 S3  | 11/13/19 | 5/18/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 4.0      | <1      |
| VC          | <1       | <1      |

| OLF-G75 S4  | 11/12/19 | 5/18/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 6.3      | <1      |
| VC          | <1       | <1      |

| OLF-G75 S5  | 11/12/19 | 5/18/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 8.8      | <1      |
| VC          | <1       | <1      |

| OLF-G75 S6  | 11/12/19 | 5/18/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | <1       | <1      |
| VC          | <1       | <1      |

| OLF-G42     | 11/20/19 | 5/28/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | 1.4     |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 0.69 J   | 9.3     |
| VC          | 27       | 1.8     |

| PPMP-229-12 | 11/13/19 | 5/20/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | <1       | <1      |
| VC          | <1       | <1      |

| OLF-G78     | 11/20/19 | 5/28/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | 5.0      | 14      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 3.3      | 16      |
| VC          | <1       | <1      |

| OLF-G73 P1  | 11/11/19 | 5/18/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | <1       | <1      |
| VC          | <1       | <1      |

| OLF-G73 P2  | 11/11/19 | 5/18/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 3.7      | 1.6     |
| VC          | <1       | <1      |

| OLF-G73 P3  | 11/11/19 | 5/18/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 33       | 13      |
| VC          | 5.6      | 3.2     |

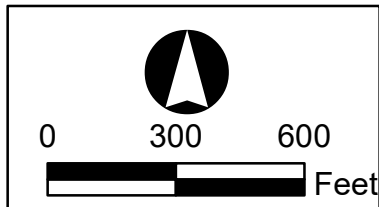
| OLF-G73 P4  | 11/11/19 | 5/18/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 3.5      | 1.6     |
| VC          | <1       | <1      |

| OLF-G73 P5  | 11/11/19 | 5/18/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | <1       | <1      |
| VC          | <1       | <1      |

| OLF-G20     | 11/20/19 | 5/28/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 11       | 7.7     |
| VC          | 7.8      | 8.4     |

| OLF-G77     | 11/20/19 | 5/28/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | 1100     | 980     |
| 1,1,2-TCA   | 21       | 28      |
| PERC        | 6.2      | 5.3     |
| TCE         | 490 (J)  | 380     |
| VC          | 8.2      | 15      |

Figure 7  
Corrective Action COCs in On-Site Groundwater Wells  
Landfill 3, Parcel 80(6) and Fill Area  
Northwest of Reilly Airfield, Parcel 229(7)  
McClellan, Anniston, Alabama



Legend

Groundwater Monitoring Wells

- Multi-Level
- Residuum
- Transition
- Bedrock
- Deep Bedrock
- Injection Well
- Parcel

Roads

Streams

Waterbody

| Parameter                               | GPS       | GPS Basis |
|-----------------------------------------|-----------|-----------|
| 1,1,2,2-Tetrachloroethane (1,1,2,2-TCA) | 13.6 µg/L | GS RBTL   |
| 1,1,2-Trichloroethane (1,1,2-TCA)       | 50.2 µg/L | GS RBTL   |
| Tetrachloroethylene (PERC)              | 5 µg/L    | MCL       |
| Trichloroethene (TCE)                   | 205 µg/L  | GS RBTL   |
| Vinyl Chloride (VC)                     | 3.86 µg/L | GS RBTL   |

µg/L = micrograms per liter  
GPS = groundwater protection standard  
GS RBTL = groundskeeper risk-based target level  
MCL = maximum contaminant level  
S1 – S6 = Screen #  
P1 – P5 = Port #  
Shaded concentrations are greater than GPS Lab Flag:  
J = Estimated value; detected between the method detection limit and the reporting limit  
Validation Flag (in parentheses):  
J = Estimated value based on data validation

FILE: G:\GIS projects\Fort McClellan\03\_094\_007\activeapps\LF3-80(6)\CMER\_2020\Figure8 COC Offsite 2020 09 23 DAP.mxd 9/23/2020 Drew Phillips

| OLF-G51     | 11/13/19 | 5/20/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | 2.5      | 0.89 J  |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 14       | 3.2     |
| VC          | <1       | <1      |

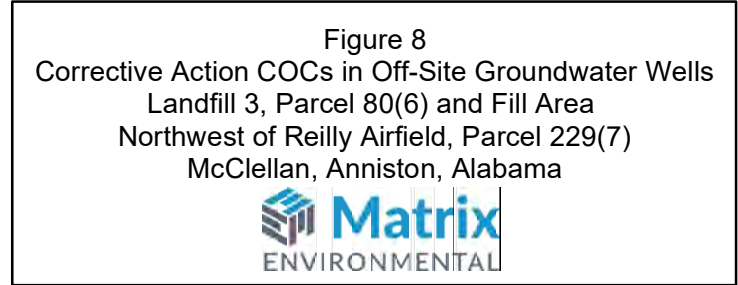
| OLF-G50     | 11/13/19 | 5/20/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | 13       | 18      |
| 1,1,2-TCA   | 0.57 J   | 0.57 J  |
| PERC        | <1       | <1      |
| TCE         | 53       | 59      |
| VC          | <1       | <1      |

| OLF-G49     | 11/13/19 | 5/20/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | <1       | <1      |
| VC          | <1       | <1      |

| OLF-G43     | 11/19/19 | 5/20/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | 3.1      | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 0.89 J   | 1.3     |
| VC          | <1       | <1      |

| OLF-G70     | 11/18/19 | 5/19/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 8.3      | 12      |
| VC          | <1       | <1      |

| OLF-G52     | 11/11/19 | 5/19/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1 (UJ)  | <1      |
| PERC        | <1 (UJ)  | <1      |
| TCE         | 7.7 (J)  | 9.7     |
| VC          | <1 (UJ)  | <1      |



| OLF-G47     | 11/18/19 | 5/26/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | 1.3      | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | 0.75 J   | <1      |
| TCE         | 24       | 1.8     |
| VC          | <1       | <1      |

| OLF-G48     | 11/18/19 | 5/26/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 3.9      | 4.3     |
| VC          | <1       | <1      |

| OLF-G22     | 11/19/19 | 5/27/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | 59       | 49      |
| 1,1,2-TCA   | 2.5      | 2.0     |
| PERC        | 0.82 J   | <1      |
| TCE         | 110      | 110     |
| VC          | 1.9      | 1.2     |

| OLF-G36     | 11/19/19 | 5/27/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | 1.2      | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | <1       | <1      |
| VC          | <1       | <1      |

| OLF-G12     | 11/19/19 | 5/29/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | 150      | 130     |
| 1,1,2-TCA   | 3.6      | 3.0     |
| PERC        | 1.2      | 1.1     |
| TCE         | 120      | 99      |
| VC          | <1       | <1      |

| OLF-G31     | 11/11/19 | 5/19/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | <1       | <1      |
| VC          | <1       | <1      |

| OLF-G32     | 11/11/19 | 5/19/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | <1       | <1      |
| VC          | <1       | <1      |

| OLF-G35     | 11/19/19 | 5/26/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | 0.64 J   | <1      |
| VC          | <1       | <1      |

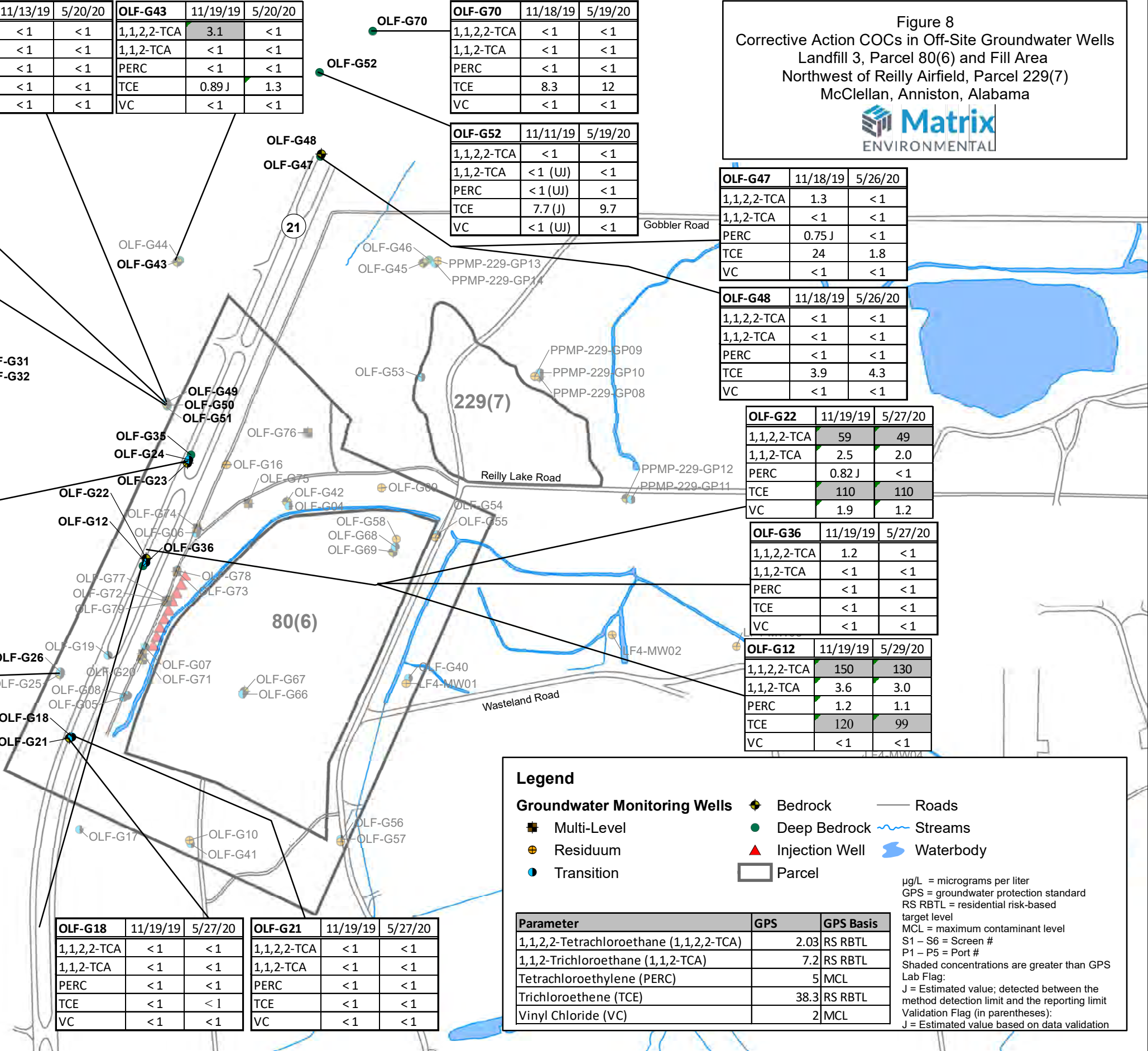
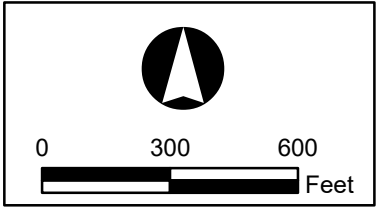
| OLF-G24     | 11/18/19 | 5/26/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | <1       | <1      |
| VC          | <1       | <1      |

| OLF-G23     | 11/18/19   | 5/28/20 |
|-------------|------------|---------|
| 1,1,2,2-TCA | 100 (J)    | 96      |
| 1,1,2-TCA   | 3.8 (J)    | 3.1     |
| PERC        | 0.76 J (J) | 0.74 J  |
| TCE         | 110 (J)    | 100     |
| VC          | <1 (UJ)    | 2.5     |

| OLF-G26     | 11/20/19 | 5/20/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | <1       | <1      |
| VC          | 1.0      | <1      |

| OLF-G18     | 11/19/19 | 5/27/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | <1       | <1      |
| VC          | <1       | <1      |

| OLF-G21     | 11/19/19 | 5/27/20 |
|-------------|----------|---------|
| 1,1,2,2-TCA | <1       | <1      |
| 1,1,2-TCA   | <1       | <1      |
| PERC        | <1       | <1      |
| TCE         | <1       | <1      |
| VC          | <1       | <1      |



Legend

Groundwater Monitoring Wells

- Multi-Level
- Residuum
- Transition
- Bedrock
- Deep Bedrock
- Injection Well
- Parcel

- Roads
- Streams
- Waterbody

| Parameter                               | GPS  | GPS Basis |
|-----------------------------------------|------|-----------|
| 1,1,2,2-Tetrachloroethane (1,1,2,2-TCA) | 2.03 | RS RBTL   |
| 1,1,2-Trichloroethane (1,1,2-TCA)       | 7.2  | RS RBTL   |
| Tetrachloroethylene (PERC)              | 5    | MCL       |
| Trichloroethene (TCE)                   | 38.3 | RS RBTL   |
| Vinyl Chloride (VC)                     | 2    | MCL       |

µg/L = micrograms per liter  
GPS = groundwater protection standard  
RS RBTL = residential risk-based target level  
MCL = maximum contaminant level  
S1 – S6 = Screen #  
P1 – P5 = Port #  
Shaded concentrations are greater than GPS Lab Flag:  
J = Estimated value; detected between the method detection limit and the reporting limit  
Validation Flag (in parentheses):  
J = Estimated value based on data validation