DEPARTMENT OF THE ARMY
US ARMY INSTALLATION MANAGEMENT COMMAND
HEADQUARTERS, UNITED STATES ARMY GARRISON
4551 LLEWELLYN AVENUE, SUITE 5000
FORT GEORGE G. MEADE, MARYLAND 20755-5000

March 30, 2016

Environmental Division

Elisabeth Green, Ph.D.
Federal Facilities Division
Maryland Department of the Environment
1800 Washington Boulevard, Suite 625
Baltimore, MD 21230

Dear Ms. Green:

Enclosed please find the *2015 Annual Operation and Maintenance Report (January 1 through December 31, 2015)* for the Phoenix Military Reservation (Report). This version addresses comments received from the Maryland Department of the Environment (MDE) on March 10, 2016. MDE concurred on March 28, 2016 to the response to comments submitted on March 24, 2016. This Report is now considered Final. Copies of the Report have also been furnished to Fran Coulters (U.S. Army Environmental Command), Tim Peck (U.S. Army Corps of Engineers), Robert Stroud (U.S. Environmental Protection Agency), and Kevin Koepernick (Baltimore County).

If you have any questions, please feel free to contact Denise Tegtmeyer at (301) 677-9559 or me at (301) 677-7999.

Sincerely,

Michael P. Butler for

George B. Knight, PG
Program Manager, Installation Restoration Program
Directorate of Public Works Environmental Division

Enclosure

Mr. Timothy Peck
ATTN: CENAB-EN-HM
U.S. Army Corps of Engineers, Baltimore District
10 South Howard St.
Baltimore, MD 21201

Arcadis U.S., Inc.
1114 Benfield Boulevard
Suite A
Millersville
Maryland 21108
Tel 410 987 0032
Fax 410 987 4392
www.arcadis.com

Subject:
2015 Annual Operation and Maintenance Report (January 1 through December 31, 2015)
Phoenix Military Reservation
Jacksonville, Maryland

ENVIRONMENT

Date:
March 30, 2016

Contact:
John Cherry

Phone:
410.923.7763

Email:
John.Cherry@arcadis.com

Our ref:
06261062.0000

Dear Mr. Peck:

This letter represents the 2015 Annual Operation and Maintenance (O&M) Report for the Phoenix Military Reservation (PMR), located in Jacksonville, Maryland and includes a comprehensive data trend analysis, an evaluation of direct groundwater recirculation (DGR) system effectiveness, and documentation of the annual land use control inspection. Furthermore, this letter presents the results of quarterly groundwater sampling and O&M activities completed at the PMR during the Fourth Quarter of 2015 (October 1 through December 31, 2015). Quarterly groundwater monitoring results and summaries of system O&M activities completed between January 1 and March 31, April 1 and June 30, and July 1 and September 30 are detailed in the First, Second, and Third Quarter Monitoring Results Report, respectively (Arcadis 2015a, 2015b, and 2015c). The PIKA International, Inc. – Arcadis, Inc. Joint Venture LLC (the JV) conducted all work in accordance with Contract W912DR-12-D-0007 Task Order 0004. Performance monitoring and system O&M was conducted in accordance with the program outlined in the Remedial Design (RD; Arcadis 2014). This letter and the documents enclosed serve as the formal submittal of the data collected under this task.

Startup and shakedown of the DGR system commenced the week of June 30, 2014, and full time operation began on July 8, 2014. The DGR layout including

the extraction, injection and monitoring well locations is presented on **Figure 1**. Installation and startup of the DGR system is documented in the Remedial Action Report (Arcadis 2014b). Following implementation of the groundwater remedy at PMR, performance monitoring and system O&M was initiated in accordance with the program outlined in the Remedial Design (Arcadis 2014a). Performance monitoring and monitored natural attenuation (MNA) sampling schedules are included as **Tables 1** and **2**, respectively. As indicated in **Table 2**, MNA sampling is conducted annually. The MNA sampling event was conducted in the Second Quarter of 2015 and was documented in the Second Quarter 2015 Monitoring Results Report (Arcadis 2015b).

Fourth Quarter 2014 Performance Monitoring Results

Groundwater samples were collected on November 25, 2015 from seven monitoring wells utilizing low-flow sampling methodology and analyzed for volatile organic compounds (VOCs) via United States Environmental Protection Agency (USEPA) Method 8260B. Prior to conducting groundwater sampling activities, depth to water measurements from eight monitoring wells (i.e., FCA-1, FCA-3, FCA-5, FCA-7, FCA-9, FCA-13, FCA-25, and FCA-26) were collected. Depth to water measurements and groundwater elevations are presented in **Table 3** and groundwater elevation contours are presented on **Figure 2**. Groundwater analytical results for the Fourth Quarter of 2015 are presented in **Table 4**. Groundwater sampling logs are included as **Attachment 1** and laboratory analytical reports are provided as **Attachment 2**.

All groundwater data collected during the Fourth Quarter of 2015 were validated in accordance with the Final Quality Assurance Project Plan (Arcadis 2010). Data validation is conducted by a third party and includes a review of the laboratory report narrative for noted deficiencies and the potential impact to data usability; review of chain-of-custodies, sample preservation, and sample receipt logs and electronic data validation of select quality control parameters. No major deficiencies were identified during the data validation. The data validation report for analytical data collected during the Fourth Quarter of 2015 is provided in **Attachment 3**.

The following summarizes groundwater analytical results for the constituents of concern (COCs) identified at PMR:

- Trichloroethene (TCE) exceeded its Site Cleanup Level (SCL) of 5 micrograms per liter (µg/L) at three locations with concentrations ranging from 17 µg/L (FCA-01) to 62 µg/L (FCA-26).
- Cis-1,2-dichloroethene exceeded its SCL of 70 µg/L at one location (FCA-26) at a concentration of 110 µg/L.
- Vinyl chloride was not detected above its reporting limit (1.0 µg/L) in any of the seven monitoring wells sampled.

In addition to the detections of COCs summarized above, the following VOCs were detected above laboratory reporting limits: 1,1-dichlororethene, acetone, benzene, carbon disulfide, naphthalene, sec-butylbenzene, tert-butylbenzene, and trans-1,2-dichloroethene. Many of these constituents have been

detected historically at the Site; however, the primary risk driver identified in the Feasibility Study (Arcadis 2013) was TCE.

Upon completion of groundwater sampling activities, all purge water generated during sampling activities was transferred to the DGR system equalization tank, pumped through the system, treated, and re-injected back into the formation.

Fourth Quarter 2015 DGR System O&M Activities

O&M inspection logs and field notes are included as **Attachment 4**. O&M activities completed on the DGR system during the reporting period are summarized below:

- October 20, 2015 - Routine visit to document system operational parameters, optimize settings, and record volume of groundwater extracted, treated, and re-injected. Additionally, the JV collected system influent, mid-granular activated carbon (GAC), and effluent samples. The samples were submitted for VOCs analysis via USEPA Method 8260B. The analytical report (QJ22012) for the DGR system samples collected is included in **Attachment 3**.
- November 25, 2015 - Routine visit to document system operational parameters, optimize settings, and record volume of groundwater extracted, treated, and re-injected. Additionally, the JV collected system influent, mid-GAC, and effluent samples. The samples were submitted for VOCs analysis via USEPA Method 8260B. The analytical report (QL01043) for the DGR system samples collected is included in **Attachment 3**.The fourth quarter performance monitoring event was also completed during this mobilization.
- December 14, 2015 - Arcadis field personnel responded on December 14, 2015 to an “Air Compressor Low” alarm received on December 13, 2015. Upon arrival to the Site the DGR system was offline. The air compressor shut-down was related to the elevated temperature inside the shed caused by the unseasonably warm weather combined with the heater inside the treatment building. The settings on the heater were reduced, the alarm was reset and the system was brought back online. During the December 14, 2015 mobilization, routine O&M activities including documenting system operational parameters, optimizing settings, and recording volume of groundwater extracted, treated, and re-injected was completed. Additionally, the JV collected system influent, mid-GAC, and effluent samples. The samples were submitted for VOCs analysis via USEPA Method 8260B. The analytical report (QL15019) for the DGR system samples collected is included in **Attachment 3**.
- December 23, 2015 - Arcadis field personnel responded on December 23, 2015 to an “Air Compressor Low” alarm received on December 18, 2015. Upon arrival to the Site the DGR system was operational and actively extracting, treating, and reinjecting groundwater. The alarm was reset and the system components were inspected. The digital pressure gauge installed on the air compressor was not reporting pressure readings consistent with the analog pressure gauge and requires replacement. The low pressure alarm was decreased to 1.0 pound per square inch as an interim measure and the system was restarted. A replacement pressure gauge was ordered and will be installed during the next O&M inspection event. Because of the faulty pressure gauge, the DGR

system sensaphone periodically sent “Air Compressor Low” alarms even though the system was operating as intended until a power loss occurred on 1/24/16 during a major snowstorm event. The replacement pressure gauge was installed on February 1, 2015 and the system was brought back online.

As of December 14, 2015, the DGR system has extracted, treated and re-injected approximately 68,500 gallons since system startup/shakedown in June 2014. Analytical data for system influent, mid-GAC, and effluent samples is presented in **Table 4**. A summary of the approximate total number of gallons extracted and injected into each of the three injection wells associated with the DGR system during the reporting period is provided in **Table 5**.

Annual Land Use Control Inspection

As indicated in the RD (Arcadis 2014a), an annual land use control (LUC) inspection was performed on November 25, 2015 to ensure that all LUCs are in place and in good condition and to confirm that the land use of the PMR has not changed. The completed LUC inspection form is provided in **Attachment 4**. Photo documentation is presented in **Attachment 5**. During the visual LUC inspection no construction activities, intrusive activities, or signs of erosion were identified at PMR. Further, the sign placed on the DGR system enclosure was in-place and remained in good condition.

Contaminant Trend Analysis

A comprehensive data table summarizing groundwater analytical results collected between 2006 and the Fourth Quarter of 2015 is provided as **Table 6**. Trend plots for FCA-01, FCA-03, FCA-05, FCA-07, and FCA-26 are included as **Attachment 6**. The trend plots display TCE concentrations detected during the baseline sampling event conducted in April/May 2014, prior to startup of the DGR system in June 2014, and subsequent data collected quarterly through the Fourth Quarter of 2015. Below is a summary of the trend plots at the three monitoring well locations:

- **FCA-01 (Extraction Well)** – The maximum concentration of TCE observed at PMR was detected at FCA-01 in August 2006 (295 µg/L). Between August 2006 and April 2014, TCE concentrations at this location decreased gradually but remained elevated at a concentration of 220 µg/L prior to operation of the DRG system in June 2014. Active pumping at this well effectively decreased TCE to a concentration of 1.6 µg/L during the first quarterly performance monitoring event completed following system startup in September 2014. The TCE concentration rebounded to 45 µg/L during the second monitoring event completed in October 2014. In 2015, TCE concentrations at this location decreased and continue to fluctuate at approximately 16 µg/L in the Second, Third, and Fourth quarters of 2015. As of the Fourth Quarter of 2015, TCE at FCA-01 has decreased by 94% when compared to the maximum concentration of 295 µg/L.
- **FCA-03 (Nearby Monitoring Well)** – FCA-03 is located approximately 150 feet northeast of extraction well FCA-01 and within the inferred extent of capture. TCE was detected above the MCL of 5 µg/L at a concentration of 22 µg/L during the baseline event in May 2014. No significant reductions

in TCE have been observed to date as TCE was detected at a concentration ranging between 26 µg/L (September 2014) and 34 µg/L (November 2015). TCE concentrations are likely increasing at this location as treated groundwater is reinjected at injection well (IW)-1, flushing impacted water further downgradient towards FCA-03. TCE concentrations are expected to decrease at FCA-03 as the clean water injected at IW-01 continues.

- **FCA-05 and FCA-07 (Upgradient Monitoring Wells)** – FCA-05 and FCA-07 are located approximately 450 ft and 200 ft south of extraction well FCA-01, respectively. FCA-07 is located within the inferred extent of capture. FCA-05 is located outside of the inferred extent of capture and along the southern Site boundary. Concentrations of TCE and cis-1,2-DCE have remained consistent and below the MCL at both locations since system start. The maximum concentration of TCE observed at FCA-05 and FCA-07 in 2015 was 3.2 µg/L and 4.8 µg/L (February 2015), respectively. VC concentrations have not been detected at either monitoring location.
- **FCA-26 (Nearby Monitoring Well)** – FCA-26 is located approximately 50 feet southeast of extraction well FCA-01 and within the inferred extent of capture. IW-2 is located approximately 60 feet upgradient of FCA-26. TCE was detected above the MCL of 5 µg/L at a concentration of 160 µg/L during the baseline event in May 2014. Following system startup, TCE concentrations have exhibited a decreasing trend, reaching its lowest concentration in the Fourth Quarter of 2015 (62 µg/L).

Groundwater elevation contours are presented on **Figure 2** for the Fourth Quarter of 2015. Baseline groundwater elevation contours collected prior to operation of the DGR system are also presented for comparison purposes. The inferred extent of hydraulic capture is highlighted in green. Consistent operation of the DGR system in 2015 has increased hydraulic capture and resulted in a decrease in TCE at extraction well FCA-01 and nearby monitoring well FCA-26. As discussed above, concentrations of TCE at FCA-03 have increased in 2015 as treated groundwater is injected at IW-1, redirecting impacted groundwater in the vicinity of FCA-03.

Analytical results collected in 2015 indicate that the DGR system is operating as intended. Continued operation of the DGR system is expected to decrease TCE concentrations to levels capable of attenuating below the MCL of 5 µg/L in no more than 10 years following the shutdown of the DGR system.

Future Activities in 2016

The Fourth Quarter of 2015 Long Term Monitoring (LTM) event documented herein was the last event to be conducted at PMR under Multiple Service Award Contract W912DR-12-D-0007 Task Order 0004. Future LTM activities will continue under Environmental Remediation Multiple Award Contract W91ZLK-13-D-0009 Task Order 0009. The next scheduled performance monitoring event is scheduled to be completed in February 2016. MNA samples will be collected during the Second Quarter of 2016.

In accordance with the monitoring program established in the RD (Arcadis 2014a), performance monitoring will continue on a quarterly basis through the Second Quarter of 2016 (two years following startup of the DGR system in July 2014 [8 rounds of sampling]). Pending regulatory approval,

performance monitoring is expected to be reduced to semi-annually at this time and completed in conjunction with on-going annual MNA sampling events. Following completion of eight rounds of performance monitoring data, linear regression analyses will be conducted to identify decreasing trends of TCE within 95 percent confidence. Attenuation rates will also be calculated for TCE and compared to pre-DGR operation conditions to assess the impact of the DGR system. Based upon design assumptions, operation of the DGR system is expected to decrease TCE concentration at PMR by an order of magnitude within five years by increasing the number of clean water pore flushes in the aquifer. Therefore, it is anticipated that the system will be operated through the Third Quarter of 2019. The results of the linear regression analyses will assist in projecting future operation of the DGR system. As indicated in the RD (Arcadis 2014a), the system may be taken offline when TCE concentrations have sufficiently decreased to allow MNA to address the remaining contaminant mass within a timeframe of approximately 10 years or less.

Recommendations

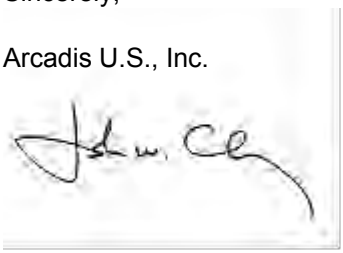
It is recommended that FCA-23 and FCA-24 be abandoned. These monitoring wells are not included in the LTM program and are not anticipated to be sampled in the future. Further, these locations are off Army property, and the property owner has requested they be removed/abandoned. All well abandonment activities will be conducted in accordance with applicable local, state, and federal regulations by a driller licensed in the State of Maryland.

System O&M inspections will continue on a monthly basis; however, system influent, mid-GAC, and effluent samples will be collected on a quarterly basis in accordance with the performance monitoring plan established in the Remedial Design (Arcadis 2014a).

Should you have any questions or comments, please contact the undersigned at your earliest convenience.

Sincerely,

Arcadis U.S., Inc.



John Cherry

Project Manager

Copies:
George Knight – 2 hard copies and 3 CDs
Francis Coulters –1 CD

Enclosures:

Tables

1 Performance Monitoring Schedule
2 Monitored Natural Attenuation Schedule
3 2015 Groundwater Elevations
4 Analytical Results – 2015
5 Summary of System Volumes
6 Comprehensive Groundwater Analytical Data (2006 – 2015)

Figures

1 Directed Groundwater Recirculation Layout
2 Comparison of Groundwater Contours

Attachments

1 Groundwater Sample Logs
2 Laboratory Reports (Provided on CD)
3 Data Validation Report (Provided on CD)
4 System O&M Inspection Field Notes
5 Photo Log
6 TCE Trend Plots
7 Response to Comments

References

Arcadis. 2011. Performance Based Acquisition Final Quality Assurance Project Plan. Fort George G. Meade, Maryland. Prepared for the United States Army Environmental Command (USAEC). March 2011.

Arcadis. 2014a. Remedial Design. PMR, Jacksonville, Maryland. Prepared for the United States Army Corps of Engineers (USACE). March 28.

Arcadis. 2014b. Remedial Action Completion Report. PMR, Jacksonville, Maryland. Prepared for the USACE. December 19.

Arcadis. 2015a. First Quarter Operation and Maintenance Report (January 1 through March 31, 2015). PMR, Jacksonville, Maryland. Prepared for the USACE. May 22.

Arcadis. 2015b. Second Quarter Operation and Maintenance Report (April 1 through June 30, 2015). PMR, Jacksonville, Maryland. Prepared for the USACE. July 31.

Arcadis. 2015c. Third Quarter Operation and Maintenance Report (July 1 through September 30, 2015). PMR, Jacksonville, Maryland. Prepared for the USACE. November 16.

TABLES

Table 1
Performance Monitoring Schedule
Phoenix Military Reservation
Jacksonville, Maryland

Well ID	Monitoring Frequency	Sampling Parameters	
		Field Parameters[2]	VOCs
FCA-1	Quarterly[1]	X	X
FCA-3	Quarterly[1]	X	X
FCA-5	Quarterly[1]	X	X
FCA-7	Quarterly[1]	X	X
FCA-9	Quarterly[1]	X	X
FCA-25	Quarterly[1]	X	X
FCA-26	Quarterly[1]	X	X

Notes:

1. Quarterly performance monitoring is planned for the first two years of the directed groundwater recirculation system operation.

2. Field parameters include pH, dissolved oxygen, oxidation reduction potential, specific conductivity, turbidity, and temperature.

VOCs - volatile organic compounds

Table 2
Monitored Natural Attenuation Schedule
Phoenix Military Reservation
Jacksonville, Maryland

Well ID	Monitoring Frequency	Sampling Parameters				
		Field Parameters[2]	VOCs	Total Organic Carbon	Anions[3]	Dissolved Iron
FCA-1	Annually[1]	X	X	X	X	X
FCA-3	Annually[1]	X	X	X	X	X
FCA-5	Annually[1]	X	X	X	X	X
FCA-7	Annually[1]	X	X	X	X	X
FCA-9	Annually[1]	X	X	X	X	X
FCA-13	Annually[1]	X	X	X	X	X
FCA-15	Annually[1]	X	X	X	X	X
FCA-17	Annually[1]	X	X	X	X	X
FCA-19	Annually[1]	X	X	X	X	X
FCA-21	Annually[1]	X	X	X	X	X
FCA-25	Annually[1]	X	X	X	X	X
FCA-26	Annually[1]	X	X	X	X	X

Notes:

1. Annual monitored natural attenuation sampling began 1 year after directed groundwater recirculation system startup in the second quarter of 2015.
2. Field parameters include pH, dissolved oxygen, oxidation reduction potential, specific conductivity, turbidity, and temperature.
3. Anions include sulfate (SO_4) and nitrate (NO_3).

VOCs - volatile organic compounds

Table 3
2015 Groundwater Elevations
Phoenix Military Reservation
Jacksonville, Maryland

Monitoring Well ID	Installation Date	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Top of Screen (ft amsl)	Bottom of screen (ft amsl)	Ground Elevation (ft amsl)	TOC Elevation (ft amsl)	February 25, 2015		May 26, 2015		August 31, 2015		November 25, 2015	
								Depth to Groundwater (ft bTOC)	Groundwater Elevation (ft amsl)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (ft amsl)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (ft amsl)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (ft amsl)
FCA-1	November 1982	62	72	498.8	488.8	560.8	559.92	24.25	535.67	53	506.92	44.1	515.82	28.66	531.26
FCA-3	October 1982 / May 2006	70	80	490.6	480.6	560.6	563.19	27.57	535.62	25.31	537.88	26.75	536.44	30.82	532.37
FCA-5	October 1982	65	75	512.13	502.13	577.13	577.85	39.27	538.58	37.06	540.79	36.68	541.17	39.21	538.64
FCA-7	October 1982 / May 2006	84	94	492.22	482.22	576.22	578.54	38.3	540.24	36.46	542.08	36	542.54	39.89	538.65
FCA-9	November 1982	71	81	480.58	470.58	551.58	554.22	28.27	525.95	26.28	527.94	27.76	526.46	29.55	524.67
FCA-13	May 2006	60	80	468.01	448.01	528.01	530.58	NG	---	44.49	486.09	NG	---	45.66	484.92
FCA-15	May 2006	22	32	365.86	355.86	387.86	391	NG	---	7.41	383.59	NG	---	NG	---
FCA-17	May 2006	77	102	438.85	413.85	515.85	515.52	NG	---	24.39	491.13	NG	---	NG	---
FCA-19	May 2006	85	105	428.07	408.07	513.07	513.08	NG	---	18.02	495.06	NG	---	NG	---
FCA-21	May 2006	60	85	417.27	392.27	477.27	477.3	NG	---	10.65	466.65	NG	---	NG	---
FCA-25	May 2011	70	85	505.2	490.2	575.2	578.09	41.14	536.95	39.04	539.05	39.3	538.79	42.2	535.89
FCA-26	April 2014	62.5	72.5	503.4	493.4	565.9	568.44	33.08	535.36	32.73	535.71	34.29	534.15	38.09	530.35

Notes:
ft bgs - feet below ground surface
ft bTOC - feet below top of casing
amsl - above mean sea level
TOC - top of casing
NG - not gauged

Table 4
Analytical Results - 2015
Phoenix Military Reservation Jacksonville, Maryland

		Sample Location:	FCA-1	FCA-1	FCA-1	FCA-1	FCA-1	FCA-3	FCA-3	FCA-3	FCA-3	FCA-5
		Date:	2/27/2015	5/29/2015	9/1/2015	9/1/2015	11/25/2015	2/25/2015	5/28/2015	8/31/2015	11/25/2015	2/25/2015
		Sample ID:	PMRI-FCA-01(022715)	PMR1-FCA-1(052915)	PMR1-FCA-01(090115)	DUP01(090115)	PMR1-FCA-01 (112515)	PMRI-FCA-03(022715)	PMR1-FCA-3(052815)	PMR1-FCA-03(083115)	PMR1-FCA-03 (112515)	PMRI-FCA-05(022515)
Analyte	**Unit**	**SCL[1]**										
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
1,1,1-Trichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
1,1,2,2-Tetrachloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
1,1,2-Trichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
1,1-Dichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
1,1-Dichloroethene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
1,1-Dichloropropene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2,3-Trichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2,3-Trichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2,4-Trichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2,4-Trimethylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2-Dibromo-3-chloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2-Dibromoethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2-Dichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2-Dichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2-Dichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
1,3,5-Trimethylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
1,3-Dichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
1,3-Dichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
1,4-Dichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
2,2-Dichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
2-Butanone (MEK)	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
2-Chlorotoluene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
4-Chlorotoluene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
4-Methyl-2-Pentanone	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Acetone	µg/L	--	**8.5 J**	**1.8 J**	< 10 U	< 10 U	< 10 U	**8.3 J**	< 10 U	< 10 U	**1.9 J**	**7.1 J**
Benzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	**0.19 J**
Bromobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Bromochloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Bromodichloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Bromoform	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Bromomethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Carbon Disulfide	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Carbon Tetrachloride	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
CFC-11	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
CFC-12	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Chlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Chlorodibromomethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Chloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Chloroform	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Chloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
cis-1,2-Dichloroethene	µg/L	70	**3.8**	**2.1**	**1.6**	**1.6**	**1.6**	**3.3**	**3.6**	**3.9**	**3.9**	**0.64**
cis-1,3-Dichloropropene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Cymene (p-Isopropyltoluene)	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Dibromomethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Dichloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Ethylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Hexachloro-1,3-butadiene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Isopropylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
m,p-Xylene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Methyl-tert-butylether	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U

Table 4
Analytical Results - 2015
Phoenix Military Reservation Jacksonville, Maryland

		Sample Location:	FCA-1	FCA-1	FCA-1	FCA-1	FCA-1	FCA-3	FCA-3	FCA-3	FCA-3	FCA-5
		Date:	2/27/2015	5/29/2015	9/1/2015	9/1/2015	11/25/2015	2/25/2015	5/28/2015	8/31/2015	11/25/2015	2/25/2015
		Sample ID:	PMRI-FCA-01(022715)	PMR1-FCA-1(052915)	PMR1-FCA-01(090115)	DUP01(090115)	PMR1-FCA-01 (112515)	PMRI-FCA-03(022715)	PMR1-FCA-3(052815)	PMR1-FCA-03(083115)	PMR1-FCA-03 (112515)	PMRI-FCA-05(022515)
Analyte	**Unit**	**SCL[(1)]**										
Naphthalene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.96**	**1.0**	**1.1**	**1.3**	**1.1**
N-Butylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	**0.14 J**	< 0.50 U
N-Propylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
o-Xylene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
sec-Butylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.1**	**0.85**	**1.0**	**1.0**	**1.8**
Styrene (Monomer)	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
tert-Butylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Tetrachloroethene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Toluene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Total Xylenes	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
trans-1,2-Dichloroethene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
trans-1,3-Dichloropropene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Trichloroethene	µg/L	5	**30**	**17**	**16**	**15**	**17**	**24**	**28**	**31**	**34**	**2.7**
Vinyl chloride	µg/L	2	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U
Biogeochemical Parameters												
Nitrate-N	µg/L	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	--	--	**2400 J**	--	--	--	--	**480**	--	--	--
Dissolved Iron	µg/L	--	--	**41000 J**	--	--	--	--	**39000**	--	--	--
Total Organic Carbon	µg/L	--	--	< 100 U	--	--	--	--	**55 J**	--	--	--
Field Parameters												
pH	S.U.	--	6.02	6.37	5.78	--	5.72	5.64	5.27	5.94	5.26	5.87
Specific Conductivity	µS/cm	--	0.198	0.164	0.178	--	0.162	0.173	0.167	0.168	0.170	0.141
Turbidity	NTU	--	0.44	0.96	0.28	--	1.00	7.84	67.8	93.6	15.4	2.67
Dissolved Oxygen	mg/L	--	2.2	6.28	2.13	--	1.08	0.95	6.9	0.51	0.84	0.81
Temperature	°C	--	10.28	14.51	14.54	--	12.05	8.47	15.51	15.72	11.90	10.54
Oxidation Reduction Potential	mV	--	179.1	87.2	-12.8	--	196.2	193	45.8	-255.1	36.9	75.9

***Notes are provided on the last page of Table 4.**

Table 4
Analytical Results - 2015
Phoenix Military Reservation Jacksonville, Maryland

		Sample Location:	FCA-5	FCA-5	FCA-5	FCA-7	FCA-7	FCA-7	FCA-7	FCA-9	FCA-9	FCA-9
		Date:	5/28/2015	8/31/2015	11/25/2015	2/25/2015	5/28/2015	9/1/2015	11/25/2015	2/27/2015	5/28/2015	8/31/2015
		Sample ID:	PMR1-FCA-5(052815)	PMR1-FCA-05(083115)	PMR1-FCA-05 (112515)	PMRI-FCA-07(022515)	PMR1-FCA-7(052815)	PMR1-FCA-07(090115)	PMR1-FCA-07 (112515)	PMRI-FCA-09(022715)	PMR1-FCA-9(052815)	PMR1-FCA-09(083115)
Analyte	**Unit**	**SCL[(1)]**										
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
1,1,1-Trichloroethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
1,1,2,2-Tetrachloroethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
1,1,2-Trichloroethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
1,1-Dichloroethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
1,1-Dichloroethene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
1,1-Dichloropropene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
1,2,3-Trichlorobenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
1,2,3-Trichloropropane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
1,2,4-Trichlorobenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
1,2,4-Trimethylbenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
1,2-Dibromo-3-chloropropane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
1,2-Dibromoethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
1,2-Dichlorobenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
1,2-Dichloroethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
1,2-Dichloropropane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
1,3,5-Trimethylbenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
1,3-Dichlorobenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
1,3-Dichloropropane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
1,4-Dichlorobenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
2,2-Dichloropropane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
2-Butanone (MEK)	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
2-Chlorotoluene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
4-Chlorotoluene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
4-Methyl-2-Pentanone	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Acetone	µg/L	--	< 10 U	< 10 U	**3.1 J**	**6.7 J**	< 10 U	< 10 U	< 10 U	**7.4 J**	< 10 U	< 10 U
Benzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	**0.29 J**	**0.22 J**	**0.20 J**	**0.20 J**	< 0.50 U	< 0.50 U	< 1.0 U
Bromobenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Bromochloromethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Bromodichloromethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Bromoform	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Bromomethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Carbon Disulfide	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Carbon Tetrachloride	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
CFC-11	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
CFC-12	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Chlorobenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Chlorodibromomethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Chloroethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Chloroform	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Chloromethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
cis-1,2-Dichloroethene	µg/L	70	**0.42 J**	**0.60 J**	**0.52 J**	**1.1**	**0.87**	**0.74 J**	**0.83 J**	< 0.50 U	< 0.50 U	< 1.0 U
cis-1,3-Dichloropropene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Cymene (p-Isopropyltoluene)	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Dibromomethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Dichloromethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Ethylbenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Hexachloro-1,3-butadiene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Isopropylbenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
m,p-Xylene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Methyl-tert-butylether	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U

Table 4
Analytical Results - 2015
Phoenix Military Reservation Jacksonville, Maryland

		Sample Location:	FCA-5	FCA-5	FCA-5	FCA-7	FCA-7	FCA-7	FCA-7	FCA-9	FCA-9	FCA-9
		Date:	5/28/2015	8/31/2015	11/25/2015	2/25/2015	5/28/2015	9/1/2015	11/25/2015	2/27/2015	5/28/2015	8/31/2015
		Sample ID:	PMR1-FCA-5(052815)	PMR1-FCA-05(083115)	PMR1-FCA-05 (112515)	PMRI-FCA-07(022515)	PMR1-FCA-7(052815)	PMR1-FCA-07(090115)	PMR1-FCA-07 (112515)	PMRI-FCA-09(022715)	PMR1-FCA-9(052815)	PMR1-FCA-09(083115)
Analyte	**Unit**	**SCL[1]**										
Naphthalene	µg/L	--	**0.77**	**0.89 J**	**0.87 J**	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
N-Butylbenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
N-Propylbenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
o-Xylene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
sec-Butylbenzene	µg/L	--	**1.2**	**1.7**	**1.7**	**1.1**	**0.70**	**0.93 J**	**1.3**	< 0.50 U	< 0.50 U	< 1.0 U
Styrene (Monomer)	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
tert-Butylbenzene	µg/L	--	< 0.50 U	< 1.0 U	**0.27 J**	< 0.50 U	< 0.50 U	< 1.0 U	**0.19 J**	< 0.50 U	< 0.50 U	< 1.0 U
Tetrachloroethene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Toluene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	**0.18 J**	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Total Xylenes	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
trans-1,2-Dichloroethene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
trans-1,3-Dichloropropene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Trichloroethene	µg/L	5	**1.6**	**3.2**	**3.1**	**4.8**	**3.5**	**4.5**	**4.6**	**0.81**	< 0.50 U	< 1.0 U
Vinyl chloride	µg/L	2	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 1.0 U
Biogeochemical Parameters												
Nitrate-N	µg/L	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	--	< 42 U	--	--	--	< 13 U	--	--	--	**810**	--
Dissolved Iron	µg/L	--	**9600**	--	--	--	**10000**	--	--	--	**2600**	--
Total Organic Carbon	µg/L	--	**230**	--	--	--	**170**	--	--	--	< 100 U	--
Field Parameters												
pH	S.U.	--	6.39	5.8	6.08	6.18	6.48	6.39	5.77	7.09	7.26	6.89
Specific Conductivity	µS/cm	--	0.134	0.139	0.140	0.163	0.165	0.167	0.176	0.223	0.148	0.208
Turbidity	NTU	--	2.41	2.75	1.50	16.5	48.4	19.4	12.90	4.01	25.1	10.7
Dissolved Oxygen	mg/L	--	8.92	0.33	0.43	0.38	5.95	1.66	1.10	0.41	12.27	3.71
Temperature	°C	--	15.64	18.43	11.89	9.4	17.44	18.05	11.76	7.78	14.51	16.38
Oxidation Reduction Potential	mV	--	86.3	-80.8	-98.7	-15.9	71.5	-213.5	23.0	53.7	156.4	-186.9

***Notes are provided on the last page of Table 4.**

Table 4
Analytical Results - 2015
Phoenix Military Reservation Jacksonville, Maryland

		Sample Location:	FCA-9	FCA-13	FCA-15	FCA-17	FCA-19	FCA-21	FCA-25
		Date:	11/25/2015	5/27/2015	5/29/2015	5/29/2015	5/28/2015	6/4/2015	2/25/2015
		Sample ID:	PMR1-FCA-09 (112515)	PMR1-FCA-13 (052715)	PMR1-FCA-15(052915)	PMR1-FCA-17(052915)	PMR1-FCA-19(052815)	PMR1-FCA-21(060415)	PMRI-FCA-25(022515)
Analyte	**Unit**	**SCL[1]**							
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,1,1-Trichloroethane	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,1,2,2-Tetrachloroethane	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,1,2-Trichloroethane	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,1-Dichloroethane	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,1-Dichloroethene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,1-Dichloropropene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2,3-Trichlorobenzene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2,3-Trichloropropane	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2,4-Trichlorobenzene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2,4-Trimethylbenzene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2-Dibromo-3-chloropropane	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2-Dibromoethane	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2-Dichlorobenzene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2-Dichloroethane	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2-Dichloropropane	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,3,5-Trimethylbenzene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,3-Dichlorobenzene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,3-Dichloropropane	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,4-Dichlorobenzene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
2,2-Dichloropropane	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
2-Butanone (MEK)	µg/L	--	< 10 U	< 10 U	< 10 UJ	< 10 U	**1.6 J**	< 10 U	< 10 U
2-Chlorotoluene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
4-Chlorotoluene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
4-Methyl-2-Pentanone	µg/L	--	< 10 U	< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 U
Acetone	µg/L	--	< 10 U	< 10 U	< 10 UJ	< 10 U	< 10 U	**2.4 J**	**6.3 J**
Benzene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Bromobenzene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Bromochloromethane	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Bromodichloromethane	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Bromoform	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Bromomethane	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Carbon Disulfide	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Carbon Tetrachloride	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
CFC-11	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
CFC-12	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Chlorobenzene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Chlorodibromomethane	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Chloroethane	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Chloroform	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Chloromethane	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
cis-1,2-Dichloroethene	µg/L	70	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	**0.76**	< 0.50 U
cis-1,3-Dichloropropene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Cymene (p-Isopropyltoluene)	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Dibromomethane	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Dichloromethane	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Ethylbenzene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Hexachloro-1,3-butadiene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Isopropylbenzene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
m,p-Xylene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	--	< 10 U	< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 U
Methyl-tert-butylether	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	**0.51**	< 0.50 U

Table 4
Analytical Results - 2015
Phoenix Military Reservation Jacksonville, Maryland

		Sample Location:	FCA-9	FCA-13	FCA-15	FCA-17	FCA-19	FCA-21	FCA-25
		Date:	11/25/2015	5/27/2015	5/29/2015	5/29/2015	5/28/2015	6/4/2015	2/25/2015
		Sample ID:	PMR1-FCA-09 (112515)	PMR1-FCA-13 (052715)	PMR1-FCA-15(052915)	PMR1-FCA-17(052915)	PMR1-FCA-19(052815)	PMR1-FCA-21(060415)	PMRI-FCA-25(022515)
Analyte	**Unit**	**SCL[1]**							
Naphthalene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
N-Butylbenzene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
N-Propylbenzene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
o-Xylene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
sec-Butylbenzene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Styrene (Monomer)	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
tert-Butylbenzene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Tetrachloroethene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Toluene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Total Xylenes	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
trans-1,2-Dichloroethene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
trans-1,3-Dichloropropene	µg/L	--	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Trichloroethene	µg/L	5	**0.54 J**	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Vinyl chloride	µg/L	2	< 1.0 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Biogeochemical Parameters									
Nitrate-N	µg/L	--	--	--	--	--	--	--	--
Sulfate	µg/L	--	--	**590**	**410 J**	**650 J**	**1600**	**370**	--
Dissolved Iron	µg/L	--	--	**34000**	**24000 J**	**890 J**	**130000**	**410000**	--
Total Organic Carbon	µg/L	--	--	< 100 U	< 100 U	**210**	< 100 U	**110**	--
Field Parameters									
pH	S.U.	--	6.29	6.38	5.27	6.66	9.73	9.22	5.75
Specific Conductivity	µS/cm	--	0.213	0.142	0.29	0.082	0.444	1.004	0.331
Turbidity	NTU	--	3.12	8.31	12.2	80.1	1.62	18	9.92
Dissolved Oxygen	mg/L	--	0.82	5.82	4.95	0.23	0.34	0.39	0.47
Temperature	°C	--	11.66	17.42	13.34	11.89	2.28	11.98	10.42
Oxidation Reduction Potential	mV	--	82.0	94.2	269.1	37.6	105.4	-128.8	61.3

***Notes are provided on the last page of Table 4.**

Table 4
Analytical Results - 2015
Phoenix Military Reservation Jacksonville, Maryland

		Sample Location:	FCA-25	FCA-25	FCA-25	FCA-26	FCA-26	FCA-26	FCA-26	FCA-26	FCA-26	FCA-26
		Date:	5/27/2015	8/31/2015	11/25/2015	2/25/2015	2/25/2015	5/28/2015	5/28/2015	9/1/2015	11/25/2015	11/25/2015
		Sample ID:	PMR1-FCA-25 (052715)	PMR1-FCA-25(083115)	PMR1-FCA-25 (112515)	PMRI-FCA-26(022515)	PMRI-DUP-01(022515)	PMR1-FCA-26(052815)	PMR1-DUP-01(052815)	PMR1-FCA-26(090115)	PMR1-FCA-26 (112515)	PMR1-DUP-01 (112515)
Analyte	**Unit**	**SCL[(1)]**										
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,1-Trichloroethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	**0.96 J**	< 0.50 UJ	**0.62**	**0.60**	< 1.0 U	**0.41 J**	**0.45 J**
1,1-Dichloropropene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichloropropane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dibromo-3-chloropropane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dibromoethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichlorobenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichloropropane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
2,2-Dichloropropane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
2-Butanone (MEK)	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	**12**	**6.5 J**	**6.2 J**	< 10 U	< 10 U	< 10 U
2-Chlorotoluene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Chlorotoluene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-Pentanone	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Acetone	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	**2.6 J**	**2.3 J**	< 10 UJ
Benzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	**0.20 J**	**0.22 J**	**0.20 J**	< 0.50 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Bromobenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromochloromethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Carbon Disulfide	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	**3.8**	**3.7**	**1.1**	**1.1**	< 1.0 U	**0.39 J**	**0.36 J**
Carbon Tetrachloride	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
CFC-11	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
CFC-12	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Chlorobenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Chlorodibromomethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroform	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
cis-1,2-Dichloroethene	µg/L	70	< 0.50 U	< 1.0 U	< 1.0 U	**180**	**170**	**130**	**120**	**120**	**110**	**110**
cis-1,3-Dichloropropene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Cymene (p-Isopropyltoluene)	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Dibromomethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichloromethane	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Ethylbenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Hexachloro-1,3-butadiene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Isopropylbenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
m,p-Xylene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Methyl-tert-butylether	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U

Table 4
Analytical Results - 2015
Phoenix Military Reservation Jacksonville, Maryland

		Sample Location:	FCA-25	FCA-25	FCA-25	FCA-26	FCA-26	FCA-26	FCA-26	FCA-26	FCA-26	FCA-26
		Date:	5/27/2015	8/31/2015	11/25/2015	2/25/2015	2/25/2015	5/28/2015	5/28/2015	9/1/2015	11/25/2015	11/25/2015
		Sample ID:	PMR1-FCA-25 (052715)	PMR1-FCA-25(083115)	PMR1-FCA-25 (112515)	PMRI-FCA-26(022515)	PMRI-DUP-01(022515)	PMR1-FCA-26(052815)	PMR1-DUP-01(052815)	PMR1-FCA-26(090115)	PMR1-FCA-26 (112515)	PMR1-DUP-01 (112515)
Analyte	**Unit**	**SCL[(1)]**										
Naphthalene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	**1.3**	**1.2**	**0.41 J**	**0.40 J**	< 1.0 U	**0.29 J**	**0.30 J**
N-Butylbenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
N-Propylbenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
sec-Butylbenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene (Monomer)	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
tert-Butylbenzene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Tetrachloroethene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Total Xylenes	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	**0.79**	**0.88**	**0.65**	**0.64**	**0.70 J**	**0.47 J**	**0.55 J**
trans-1,3-Dichloropropene	µg/L	--	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichloroethene	µg/L	5	< 0.50 U	< 1.0 U	< 1.0 U	**78**	**71**	**87**	**94**	**95**	**62**	**61**
Vinyl chloride	µg/L	2	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	**0.23 J**	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Biogeochemical Parameters												
Nitrate-N	µg/L	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	--	< 28 U	--	--	--	--	< 20 U	< 20 U	--	--	--
Dissolved Iron	µg/L	--	**30000**	--	--	--	--	**19000**	**19000**	--	--	--
Total Organic Carbon	µg/L	--	**1500**	--	--	--	--	**2400**	**2300**	--	--	--
Field Parameters												
pH	S.U.	--	5.89	5.38	5.20	6.74	--	6.51	--	6.63	6.92	--
Specific Conductivity	µS/cm	--	0.324	0.39	0.356	0.309	--	0.295	--	0.287	0.281	--
Turbidity	NTU	--	18.1	4.58	3.24	36.2	--	68.5	--	29.4	35.8	--
Dissolved Oxygen	mg/L	--	11.36	1.78	2.36	0.5	--	3.09	--	0.15	7.00	--
Temperature	°C	--	16.53	16.8	12.11	7.00	--	14.82	--	19.9	12.31	--
Oxidation Reduction Potential	mV	--	107.6	-35.8	169.1	-100.1	--	-105.4	--	-94.0	-50.6	--

***Notes are provided on the last page of Table 4.**

Table 4
Analytical Results - 2015
Phoenix Military Reservation Jacksonville, Maryland

		Sample Location:	DGREFFLUENT	DGREFFLUENT	DGREFFLUENT	DGREFFLUENT	DGREFFLUENT	DGREFFLUENT	DGREFFLUENT	DGREFFLUENT	DGREFFLUENT	DGREFFLUENT	DGRINFLUENT
		Date:	2/27/2015	4/22/2015	5/26/2015	6/24/2015	7/28/2015	9/1/2015	9/30/2015	10/20/2015	11/25/2015	12/14/2015	4/22/2015
		Sample ID:	DGREFFLUENT(022715)	DGREFFLUENT(042215)	DGREFFLUENT(052615)	DGREFFLUENT(062415)	DGREFFLUENT(072815)	DGREFFLUENT(090115)	DGREFFLUENT (093015)	DGREFFLUENT(102015)	DGREFFLUENT (112515)	DGREFFLUENT(121415)	DGRINFLUENT(042215)
Analyte	**Unit**	**SCL[(1)]**											
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,1,1-Trichloroethane	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,1,2,2-Tetrachloroethane	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,1,2-Trichloroethane	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,1-Dichloroethane	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,1-Dichloroethene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,1-Dichloropropene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2,3-Trichlorobenzene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2,3-Trichloropropane	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2,4-Trichlorobenzene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2,4-Trimethylbenzene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2-Dibromo-3-chloropropane	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2-Dibromoethane	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2-Dichlorobenzene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2-Dichloroethane	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2-Dichloropropane	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,3,5-Trimethylbenzene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,3-Dichlorobenzene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,3-Dichloropropane	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,4-Dichlorobenzene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
2,2-Dichloropropane	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
2-Butanone (MEK)	µg/L	--	**2300**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
2-Chlorotoluene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
4-Chlorotoluene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
4-Methyl-2-Pentanone	µg/L	--	< 50 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Acetone	µg/L	--	**3900**	< 10 U	< 10 U	**2.4 J**	**1.8 J**	< 10 U	**2.5 J**	< 10 U	< 10 U	**2.4 J**	< 10 U
Benzene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Bromobenzene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Bromochloromethane	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Bromodichloromethane	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Bromoform	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Bromomethane	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Carbon Disulfide	µg/L	--	< 2.5 U	< 0.50 U	**0.13 BJ**	< 0.50 U	< 1.0 U	< 1.0 U	**0.19 BJ**	< 1.0 U	< 1.0 U	**0.58 BJ**	< 0.50 U
Carbon Tetrachloride	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
CFC-11	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
CFC-12	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 LU	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Chlorobenzene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Chlorodibromomethane	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Chloroethane	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Chloroform	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Chloromethane	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 LU	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
cis-1,2-Dichloroethene	µg/L	70	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**2.1**
cis-1,3-Dichloropropene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Cymene (p-Isopropyltoluene)	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Dibromomethane	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Dichloromethane	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Ethylbenzene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Hexachloro-1,3-butadiene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Isopropylbenzene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
m,p-Xylene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	--	< 50 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Methyl-tert-butylether	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U

Table 4
Analytical Results - 2015
Phoenix Military Reservation Jacksonville, Maryland

		Sample Location:	DGREFFLUENT	DGREFFLUENT	DGREFFLUENT	DGREFFLUENT	DGREFFLUENT	DGREFFLUENT	DGREFFLUENT	DGREFFLUENT	DGREFFLUENT	DGREFFLUENT	DGRINFLUENT
		Date:	2/27/2015	4/22/2015	5/26/2015	6/24/2015	7/28/2015	9/1/2015	9/30/2015	10/20/2015	11/25/2015	12/14/2015	4/22/2015
		Sample ID:	DGREFFLUENT(022715)	DGREFFLUENT(042215)	DGREFFLUENT(052615)	DGREFFLUENT(062415)	DGREFFLUENT(072815)	DGREFFLUENT(090115)	DGREFFLUENT (093015)	DGREFFLUENT(102015)	DGREFFLUENT (112515)	DGREFFLUENT(121415)	DGRINFLUENT(042215)
Analyte	**Unit**	**SCL[(1)]**											
Naphthalene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	**0.33 J**	< 1.0 U	< 1.0 U	**0.36 J**	< 1.0 U	< 1.0 U	< 0.50 U
N-Butylbenzene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
N-Propylbenzene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
o-Xylene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
sec-Butylbenzene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Styrene (Monomer)	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
tert-Butylbenzene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Tetrachloroethene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Toluene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Total Xylenes	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
trans-1,2-Dichloroethene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
trans-1,3-Dichloropropene	µg/L	--	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Trichloroethene	µg/L	5	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**18**
Vinyl chloride	µg/L	2	< 2.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Biogeochemical Parameters													
Nitrate-N	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Iron	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Field Parameters													
pH	S.U.	--	--	--	--	--	--	--	--	--	--	--	--
Specific Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--

***Notes are provided on the last page of Table 4.**

Table 4
Analytical Results - 2015
Phoenix Military Reservation Jacksonville, Maryland

		Sample Location:	DGRINFLUENT	DGRINFLUENT	DGRINFLUENT	DGRINFLUENT	DGRINFLUENT	DGRINFLUENT	DGRINFLUENT	DGRINFLUENT	DGRMIDGAC
		Date:	5/26/2015	6/24/2015	7/28/2015	9/1/2015	9/30/2015	10/20/2015	11/25/2015	12/14/2015	4/22/2015
		Sample ID:	DGRINFLUENT(052615)	DGRINFLUENT(062415)	DGRINFLUENT(072815)	DGRINFLUENT(090115)	DGRINFLUENT (093015)	DGRINFLUENT(102015)	DGRINFLUENT (112515)	DGRINFLUENT(121415)	DGRMIDGAC(042215)
Analyte	**Unit**	**SCL[1]**									
Volatile Organic Compounds											
1,1,1,2-Tetrachloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,1,1-Trichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,1,2,2-Tetrachloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,1,2-Trichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,1-Dichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,1-Dichloroethene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,1-Dichloropropene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2,3-Trichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2,3-Trichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2,4-Trichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2,4-Trimethylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2-Dibromo-3-chloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2-Dibromoethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2-Dichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2-Dichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,2-Dichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,3,5-Trimethylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,3-Dichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,3-Dichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
1,4-Dichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
2,2-Dichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
2-Butanone (MEK)	µg/L	--	**31**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
2-Chlorotoluene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
4-Chlorotoluene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
4-Methyl-2-Pentanone	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Acetone	µg/L	--	**29**	**7.1 J**	< 10 U	< 10 U	< 10 U	**2.3 J**	< 10 U	**1.7 J**	< 10 U
Benzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Bromobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Bromochloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Bromodichloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Bromoform	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Bromomethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Carbon Disulfide	µg/L	--	**0.69 B**	< 0.50 U	< 1.0 U	< 1.0 U	**0.26 BJ**	< 1.0 U	< 1.0 U	**0.49 BJ**	< 0.50 U
Carbon Tetrachloride	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
CFC-11	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
CFC-12	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Chlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Chlorodibromomethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Chloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Chloroform	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Chloromethane	µg/L	--	**0.20 J**	< 0.50 U	**0.44 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
cis-1,2-Dichloroethene	µg/L	70	**1.9**	**0.74**	**0.91 J**	**0.85 J**	**1.0**	**0.78 J**	**0.97 J**	**0.98 J**	< 0.50 U
cis-1,3-Dichloropropene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Cymene (p-Isopropyltoluene)	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Dibromomethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Dichloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Ethylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Hexachloro-1,3-butadiene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Isopropylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
m,p-Xylene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Methyl-tert-butylether	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U

Table 4
Analytical Results - 2015
Phoenix Military Reservation Jacksonville, Maryland

		Sample Location:	DGRINFLUENT	DGRINFLUENT	DGRINFLUENT	DGRINFLUENT	DGRINFLUENT	DGRINFLUENT	DGRINFLUENT	DGRINFLUENT	DGRMIDGAC
		Date:	5/26/2015	6/24/2015	7/28/2015	9/1/2015	9/30/2015	10/20/2015	11/25/2015	12/14/2015	4/22/2015
		Sample ID:	DGRINFLUENT(052615)	DGRINFLUENT(062415)	DGRINFLUENT(072815)	DGRINFLUENT(090115)	DGRINFLUENT (093015)	DGRINFLUENT(102015)	DGRINFLUENT (112515)	DGRINFLUENT(121415)	DGRMIDGAC(042215)
Analyte	**Unit**	**SCL[1]**									
Naphthalene	µg/L	--	< 0.50 U	< 0.50 U	**0.26 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
N-Butylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
N-Propylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
o-Xylene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
sec-Butylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Styrene (Monomer)	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
tert-Butylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Tetrachloroethene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Toluene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Total Xylenes	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
trans-1,2-Dichloroethene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
trans-1,3-Dichloropropene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Trichloroethene	µg/L	5	**18**	**8.0**	**8.0**	**7.7**	**8.4**	**7.4**	**8.5**	**8.8**	< 0.50 U
Vinyl chloride	µg/L	2	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U
Biogeochemical Parameters											
Nitrate-N	µg/L	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	--	--	--	--	--	--	--	--	--	--
Dissolved Iron	µg/L	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	µg/L	--	--	--	--	--	--	--	--	--	--
Field Parameters											
pH	S.U.	--	--	--	--	--	--	--	--	--	--
Specific Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--

***Notes are provided on the last page of Table 4.**

Table 4
Analytical Results - 2015
Phoenix Military Reservation Jacksonville, Maryland

		Sample Location:	DGRMIDGAC	DGRMIDGAC	DGRMIDGAC	DGRMIDGAC	DGRMIDGAC	DGRMIDGAC	DGRMIDGAC	DGRMIDGAC
		Date:	5/26/2015	6/24/2015	7/28/2015	9/1/2015	9/30/2015	10/20/2015	11/25/2015	12/14/2015
		Sample ID:	DGRMIDGAC(052615)	DGRMIDGAC(062415)	DGRMIDGAC(072815)	DGRMIDGAC(090115)	DGRMIDGAC (093015)	DGRMIDGAC(102015)	DGRMIDGAC (112515)	DGRMIDGAC(121415)
Analyte	**Unit**	**SCL[(1)]**								
Volatile Organic Compounds										
1,1,1,2-Tetrachloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,1-Trichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloropropene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dibromo-3-chloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dibromoethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
2,2-Dichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
2-Butanone (MEK)	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
2-Chlorotoluene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Chlorotoluene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-Pentanone	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Acetone	µg/L	--	< 10 U	**7.6 J**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	**3.3 J**
Benzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromochloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Carbon Disulfide	µg/L	--	**0.16 BJ**	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.8 B**
Carbon Tetrachloride	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
CFC-11	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
CFC-12	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chlorodibromomethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroform	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.75 J**
cis-1,2-Dichloroethene	µg/L	70	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
cis-1,3-Dichloropropene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cymene (p-Isopropyltoluene)	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dibromomethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Ethylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Hexachloro-1,3-butadiene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isopropylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
m,p-Xylene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Methyl-tert-butylether	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U

Table 4
Analytical Results - 2015
Phoenix Military Reservation Jacksonville, Maryland

		Sample Location:	DGRMIDGAC	DGRMIDGAC	DGRMIDGAC	DGRMIDGAC	DGRMIDGAC	DGRMIDGAC	DGRMIDGAC	DGRMIDGAC
		Date:	5/26/2015	6/24/2015	7/28/2015	9/1/2015	9/30/2015	10/20/2015	11/25/2015	12/14/2015
		Sample ID:	DGRMIDGAC(052615)	DGRMIDGAC(062415)	DGRMIDGAC(072815)	DGRMIDGAC(090115)	DGRMIDGAC (093015)	DGRMIDGAC(102015)	DGRMIDGAC (112515)	DGRMIDGAC(121415)
Analyte	**Unit**	**SCL[1]**								
Naphthalene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
N-Butylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
N-Propylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
sec-Butylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene (Monomer)	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
tert-Butylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tetrachloroethene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Total Xylenes	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,3-Dichloropropene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichloroethene	µg/L	5	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl chloride	µg/L	2	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Biogeochemical Parameters										
Nitrate-N	µg/L	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	--	--	--	--	--	--	--	--	--
Dissolved Iron	µg/L	--	--	--	--	--	--	--	--	--
Total Organic Carbon	µg/L	--	--	--	--	--	--	--	--	--
Field Parameters										
pH	S.U.	--	--	--	--	--	--	--	--	--
Specific Conductivity	µS/cm	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--

***Notes are provided on the last page of Table 4.**

Notes:
1. Site Cleanup Levels (SCLs) are presented for the constituents of concern as defined in the Record of Decision (Army 2013). Values exceeding the laboratory reporting limit are presented in
2. Analytical results for the system samples (DGREFFLUENT, DGRINFLUENT, and DGRMIDGAC)
--- - Not Applicable
°C - degrees Celsius
µg/L - microgram per liter
µS/cm - microsieman per centimeter
B - Compound was found in the blank and in the sample.
J - Indicates an estimated result.
mg/L - milligram per liter
mV - millivolt
NTU - Nephelometric Turbidity Unit
S.U. - standard units
U - Indicates the analyte was analyzed but not detected above the detection limit.

Table 5
Summary of System Volumes
Phoenix Military Reservation
Jacksonville, Maryland

Cumulative Volumes (Gallons)[1]			
Date	**10/22/2015**	**11/25/2015**	**12/14/2015**
Total Influent[2]	68,400	76,182	80,284
Injected Volumes			
IW-01	20,700	23,184	24,428
IW-02	19,600	21,683	22,876
IW-03	18,100	20,100	21,115

Notes:

1. Volumes are cumulative and are recorded during monthly operation and maintenance events.

2. Flow volume discrepancies between total influent and sum of injected volumes is attributed to well recharge at FCA-01 causing pulsed pumping cycles affecting flow meter accuracy.

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-1	FCA-1	FCA-1	FCA-1	FCA-1	FCA-1	FCA-1	FCA-1	FCA-1	FCA-1	FCA-1
		Sample Date:	6/16/2006	8/10/2006	5/26/2011	4/16/2014	4/16/2014	9/4/2014	10/15/2014	2/27/2015	5/29/2015	9/1/2015	9/1/2015
		Sample Identification:	FCA-1-20060616	FCA-1-20060810	PMR1FCA01(052611)	PMR1-DUP01(041614)	PMR1-FCA01(041614)	PMR1FCA-01(090414)	PMR1FCA-1(101514)	PMRI-FCA-01(022715)	PMR1-FCA-1(052915)	DUP01(090115)	PMR1-FCA-01(090115)
Chemical	**Units**	**MCL**											
Metals													
Calcium, Total	µg/L	--	**19000**	**19300**	--	--	--	--	--	--	--	--	--
Chromium, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Iron, Dissolved	µg/L	--	--	--	< 100 U	--	--	--	--	--	< 100 U	--	--
Iron, Total	µg/L	--	< 100 U	**512**	**77 J**	--	--	--	--	--	--	--	--
Lead, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium, Total	µg/L	--	**7650**	**6680**	--	--	--	--	--	--	--	--	--
Manganese, Dissolved	µg/L	--	--	--	**14 J**	--	--	--	--	--	--	--	--
Manganese, Total	µg/L	--	< 15 U	**31**	**29**	--	--	--	--	--	--	--	--
Potassium, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Sodium, Total	µg/L	--	**8030**	< 10000 U	--	--	--	--	--	--	--	--	--
Zinc, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Semi-Volatile Organic Compounds													
2-Methylnaphthalene	µg/L	--	**15.6**	**10.2**	--	--	--	--	--	--	--	--	--
Acenaphthene	µg/L	--	< 2 U	< 2 U	--	--	--	--	--	--	--	--	--
Acenaphthylene	µg/L	--	< 2 U	< 2 U	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	µg/L	--	< 2 U	< 2 U	--	--	--	--	--	--	--	--	--
Carbazole	µg/L	--	< 2 U	< 2 U	--	--	--	--	--	--	--	--	--
Dibenzofuran	µg/L	--	**1.7 J**	**1.6 J**	--	--	--	--	--	--	--	--	--
Fluorene	µg/L	--	**2.2**	**2**	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	--	**9.3**	**5.5**	--	--	--	--	--	--	--	--	--
Nitrobenzene	µg/L	--	< 2 U	< 2 U	--	--	--	--	--	--	--	--	--
Phenanthrene	µg/L	--	**3**	**2.8**	--	--	--	--	--	--	--	--	--
Phenol	µg/L	--	< 5 U	< 5 U	--	--	--	--	--	--	--	--	--
Total SVOC TICs	µg/L	--	**84.8 J**	**47.6 J**	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbon (TPH)													
TPH as Pentane	µg/L	--	< 510 U	< 510 U	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,1,1-Trichloroethane	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	µg/L	--	--	--	< 20 U	**0.41 J**	**0.37 J**	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,1-Dichloropropene	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,2,3-Trichloropropane	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	µg/L	--	--	--	< 20 U	**1.2 J**	< 0.50 UJ	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,2-Dibromo-3-chloropropane	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,2-Dibromoethane	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	µg/L	--	--	--	< 20 U	**1.3 J**	< 0.50 UJ	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,3-Dichlorobenzene	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,3-Dichloropropane	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
2,2-Dichloropropane	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
2-Butanone (MEK)	µg/L	--	--	--	< 40 U	< 10 U	< 10 U	< 10 U	< 10	< 10 U	< 10 U	< 10 U	< 10 U
2-Chlorotoluene	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
4-Chlorotoluene	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
4-Methyl-2-Pentanone	µg/L	--	--	--	< 40 U	< 10 UJ	< 10 UJ	< 10 U	< 10	< 10 U	< 10 U	< 10 U	< 10 U
Acetone	µg/L	--	< 10 U	< 20 U	< 80 U	< 10 U	< 10 U	< 10 U	< 10	**8.5 J**	**1.8 J**	< 10 U	< 10 U
Benzene	µg/L	--	< 1 U	< 2 U	< 20 U	**0.31 J**	**0.27 J**	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Bromobenzene	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Bromochloromethane	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Bromodichloromethane	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Bromoform	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Bromomethane	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Carbon Disulfide	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Carbon Tetrachloride	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
CFC-11	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
CFC-12	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Chlorobenzene	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-1	FCA-1	FCA-1	FCA-1	FCA-1	FCA-1	FCA-1	FCA-1	FCA-1	FCA-1	FCA-1
		Sample Date:	6/16/2006	8/10/2006	5/26/2011	4/16/2014	4/16/2014	9/4/2014	10/15/2014	2/27/2015	5/29/2015	9/1/2015	9/1/2015
		Sample Identification:	FCA-1-20060616	FCA-1-20060810	PMR1FCA01(052611)	PMR1-DUP01(041614)	PMR1-FCA01(041614)	PMR1FCA-01(090414)	PMR1FCA-1(101514)	PMRI-FCA-01(022715)	PMR1-FCA-1(052915)	DUP01(090115)	PMR1-FCA-01(090115)
Chemical	**Units**	**MCL**											
Chlorodibromomethane	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Chloroethane	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Chloroform	µg/L	--	< 1 U	< 2 U	< 20 U	**0.17 J**	< 0.50 UJ	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Chloromethane	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
cis-1,2-Dichloroethene	µg/L	70	**38.2**	**31.9**	**33**	**30**	**27**	**0.18 J**	**5.6**	**3.8**	**2.1**	**1.6**	**1.6**
cis-1,3-Dichloropropene	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Cyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Cymene (p-Isopropyltoluene)	µg/L	--	--	--	< 20 U	**0.38 J**	**0.41 J**	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Dibromomethane	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Dichloromethane	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Ethane	µg/L	--	< 0.1 U	< 0.1 U	--	--	--	--	--	--	--	--	--
Ethene	µg/L	--	< 0.1 U	< 0.1 U	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	--	--	--	< 20 U	**0.23 J**	< 0.50 UJ	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Hexachloro-1,3-butadiene	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Isopropylbenzene	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
m,p-Xylene	µg/L	--	--	--	--	**1.2 J**	< 0.50 UJ	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Methane	µg/L	--	< 0.1 U	< 0.1 U	--	--	--	--	--	--	--	--	--
Methyl Acetate	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	--	--	--	< 40 U	< 10 U	< 10 U	< 10 U	< 10	< 10 U	< 10 U	< 10 U	< 10 U
Methylcyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyl-tert-butylether	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
m-Xylene	µg/L	--	--	--	< 20 U	--	--	--	--	--	--	--	--
Naphthalene	µg/L	--	--	--	**3.0 J**	**2.8**	**2.6**	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
N-Butylbenzene	µg/L	--	--	--	< 20 U	**0.47 J**	**0.39 J**	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
N-Propylbenzene	µg/L	--	--	--	< 20 U	**0.10 J**	< 0.50 UJ	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
o-Xylene	µg/L	--	--	--	**1.3 J**	**1.3**	**1.2**	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
sec-Butylbenzene	µg/L	--	--	--	**1.4 J**	**1.9**	**1.6**	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Styrene (Monomer)	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
tert-Butylbenzene	µg/L	--	--	--	< 20 U	**0.52**	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Tetrachloroethene	µg/L	--	< 1 U	< 2 U	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Toluene	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Total Xylenes	µg/L	--	**0.89 J**	**1.8 J**	**1.3 J**	**2.5 J**	**1.2 J**	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	µg/L	--	**0.57 J**	< 2 U	< 20 U	**0.36 J**	**0.34 J**	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
trans-1,3-Dichloropropene	µg/L	--	--	--	< 20 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Trichloroethene	µg/L	5	**153**	**295**	**250**	**230**	**220**	**1.6**	**45**	**30**	**17**	**15**	**16**
Vinyl chloride	µg/L	2	--	--	< 8.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Total VOC TICs	µg/L	--	**0**	**14 J**	--	--	--	--	--	--	--	--	--
Dissolved Gasses													
Carbon Dioxide	µg/L	--	--	--	**54000**	--	--	--	--	--	--	--	--
Carbon Monoxide	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methane	µg/L	--	--	--	< 0.34 U	--	--	--	--	--	--	--	--
Biogeochemical Parameters													
Nitrogen	µg/L	--	--	--	< 16000 U	--	--	--	--	--	--	--	--
Alkalinity	µg/L	--	--	--	**63000**	--	--	--	--	--	--	--	--
Chloride	µg/L	--	**12900**	**12800**	**11000**	--	--	--	--	--	--	--	--
Nitrate/Nitrite	µg/L	--	**1900**	**4400**	--	--	--	--	--	--	--	--	--
Nitrate-N	µg/L	--	**1700**	**4300**	< 930 UJ	--	--	--	--	--	**2400 J**	--	--
Nitrite	µg/L	--	**160**	**91**	**100**	--	--	--	--	--	--	--	--
Sulfate	µg/L	--	**24200**	**26400**	**25000 J**	--	--	--	--	--	**41000 J**	--	--
Total Dissolved Solids	µg/L	--	**127000**	**129000**	**130000**	--	--	--	--	--	--	--	--
Total Hardness	µg/L	--	**70700**	**71300**	--	--	--	--	--	--	--	--	--
Total Organic Carbon	µg/L	--	< 1000 U	**1900**	< 1300 U	--	--	--	--	--	< 470 U	--	--

***Notes are provided on the last page of Table 6.**

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-1	FCA-2	FCA-2	FCA-2	FCA-3	FCA-3	FCA-3	FCA-3	FCA-3	FCA-3	FCA-3
		Sample Date:	11/25/2015	6/15/2006	8/10/2006	5/26/2011	6/15/2006	8/10/2006	5/25/2011	5/7/2014	9/4/2014	9/4/2014	10/14/2014
		Sample Identification:	PMR1-FCA-01 (112515)	FCA-2-20060615	FCA-2-20060810	PMR1FCA02(052611)	FCA-3-20060615	FCA-3-20060810	PMR1FCA03(052511)	PMR1-FCA03(050714)	DUP01(090414)	PMR1FCA-03(090414)	PMR1FCA-03(101414)
Chemical	**Units**	**MCL**											
Metals													
Calcium, Total	µg/L	--	--	**38600**	**40700**	--	**10500**	**10400**	--	--	--	--	--
Chromium, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Iron, Dissolved	µg/L	--	--	--	--	**140**	--	--	**120**	--	--	--	--
Iron, Total	µg/L	--	--	**102**	**332**	**31000**	< 100 U	**762**	**1400**	--	--	--	--
Lead, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium, Total	µg/L	--	--	**7320**	**7870**	--	**6550**	**6830**	--	--	--	--	--
Manganese, Dissolved	µg/L	--	--	--	--	**19**	--	--	**26**	--	--	--	--
Manganese, Total	µg/L	--	--	< 15 U	**22.6**	**200**	**29.5**	**42.3**	**42**	--	--	--	--
Potassium, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Sodium, Total	µg/L	--	--	< 5000 U	< 10000 U	--	**8750**	< 10000 U	--	--	--	--	--
Zinc, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Semi-Volatile Organic Compounds													
2-Methylnaphthalene	µg/L	--	--	< 11 U	< 2 U	--	**3.7**	< 2.4 U	--	--	--	--	--
Acenaphthene	µg/L	--	--	< 11 U	< 2 U	--	< 2 U	< 2.4 U	--	--	--	--	--
Acenaphthylene	µg/L	--	--	< 11 U	< 2 U	--	< 2 U	< 2.4 U	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	µg/L	--	--	< 11 U	< 2 U	--	< 2 U	< 2.4 U	--	--	--	--	--
Carbazole	µg/L	--	--	< 11 U	< 2 U	--	< 2 U	< 2.4 U	--	--	--	--	--
Dibenzofuran	µg/L	--	--	< 26 U	< 5 U	--	**0.84 J**	< 6 U	--	--	--	--	--
Fluorene	µg/L	--	--	< 11 U	< 2 U	--	**1.1 J**	< 2.4 U	--	--	--	--	--
Naphthalene	µg/L	--	--	< 11 U	< 2 U	--	**2.1**	< 2.4 U	--	--	--	--	--
Nitrobenzene	µg/L	--	--	**6.8 J**	< 2 U	--	< 2 U	< 2.4 U	--	--	--	--	--
Phenanthrene	µg/L	--	--	< 11 U	< 2 U	--	**1.5 J**	< 2.4 U	--	--	--	--	--
Phenol	µg/L	--	--	< 26 U	< 5 U	--	< 5 U	< 6 U	--	--	--	--	--
Total SVOC TICs	µg/L	--	--	**0**	**0**	--	**61.2 J**	**0**	--	--	--	--	--
Total Petroleum Hydrocarbon (TPH)													
TPH as Pentane	µg/L	--	--	< 510 U	< 510 U	--	< 510 U	< 560 U	--	--	--	--	--
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,1,1-Trichloroethane	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,1,2,2-Tetrachloroethane	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,1-Dichloroethane	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,1-Dichloroethene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,1-Dichloropropene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2,3-Trichlorobenzene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2,3-Trichloropropane	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2,4-Trichlorobenzene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2,4-Trimethylbenzene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2-Dibromo-3-chloropropane	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2-Dibromoethane	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2-Dichlorobenzene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2-Dichloroethane	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2-Dichloropropane	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,3,5-Trimethylbenzene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,3-Dichlorobenzene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,3-Dichloropropane	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,4-Dichlorobenzene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
2,2-Dichloropropane	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
2-Butanone (MEK)	µg/L	--	< 10 U	--	--	< 10 U	--	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
2-Chlorotoluene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
4-Chlorotoluene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
4-Methyl-2-Pentanone	µg/L	--	< 10 U	--	--	< 10 U	--	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Acetone	µg/L	--	< 10 U	< 10 U	**9.8 J**	< 20 U	< 10 U	< 10 U	< 20 U	< 10 U	< 10 U	< 10 U	< 10 U
Benzene	µg/L	--	< 1.0 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Bromobenzene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Bromochloromethane	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Bromodichloromethane	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Bromoform	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Bromomethane	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Carbon Disulfide	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Carbon Tetrachloride	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
CFC-11	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
CFC-12	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Chlorobenzene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-1	FCA-2	FCA-2	FCA-2	FCA-3	FCA-3	FCA-3	FCA-3	FCA-3	FCA-3	FCA-3
		Sample Date:	11/25/2015	6/15/2006	8/10/2006	5/26/2011	6/15/2006	8/10/2006	5/25/2011	5/7/2014	9/4/2014	9/4/2014	10/14/2014
		Sample Identification:	PMR1-FCA-01 (112515)	FCA-2-20060615	FCA-2-20060810	PMR1FCA02(052611)	FCA-3-20060615	FCA-3-20060810	PMR1FCA03(052511)	PMR1-FCA03(050714)	DUP01(090414)	PMR1FCA-03(090414)	PMR1FCA-03(101414)
Chemical	**Units**	**MCL**											
Chlorodibromomethane	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Chloroethane	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Chloroform	µg/L	--	< 1.0 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Chloromethane	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
cis-1,2-Dichloroethene	µg/L	70	**1.6**	< 1 U	**15.5**	**0.19 J**	**7.6**	**6.8**	**4.3 J**	**2.9**	**3.2**	**3.3**	**3.4**
cis-1,3-Dichloropropene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Cyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Cymene (p-Isopropyltoluene)	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Dibromomethane	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Dichloromethane	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Ethane	µg/L	--	--	< 0.1 U	< 0.1 U	--	< 0.1 U	< 0.1 U	--	--	--	--	--
Ethene	µg/L	--	--	< 0.1 U	< 0.1 U	--	< 0.1 U	< 0.1 U	--	--	--	--	--
Ethylbenzene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Hexachloro-1,3-butadiene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Isopropylbenzene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
m,p-Xylene	µg/L	--	< 1.0 U	--	--	--	--	--	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Methane	µg/L	--	--	**0.11**	< 0.1 U	--	**0.14**	**0.42**	--	--	--	--	--
Methyl Acetate	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	--	< 10 U	--	--	< 10 U	--	--	< 10 U	< 10 U	< 10 U	< 10 U	**< 10**
Methylcyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyl-tert-butylether	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
m-Xylene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	--	--	--	--
Naphthalene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	**0.92 J**	**0.47 J**	**0.81**	**0.93**	**< 1.3**
N-Butylbenzene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
N-Propylbenzene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
o-Xylene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
sec-Butylbenzene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	**0.61 J**	**0.47 J**	**0.71**	**0.80**	**1.3**
Styrene (Monomer)	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
tert-Butylbenzene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Tetrachloroethene	µg/L	--	< 1.0 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Toluene	µg/L	--	< 1.0 U	--	--	**0.20 J**	--	--	**0.34 J**	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Total Xylenes	µg/L	--	< 1.0 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
trans-1,2-Dichloroethene	µg/L	--	< 1.0 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
trans-1,3-Dichloropropene	µg/L	--	< 1.0 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Trichloroethene	µg/L	5	**17**	**3**	**85.2**	**2.7 J**	**48.9**	**41.2**	**25**	**22**	**25**	**26**	**27**
Vinyl chloride	µg/L	2	< 1.0 U	--	--	< 2.0 U	--	--	< 2.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Total VOC TICs	µg/L	--	--	0	0	--	**32.3 J**	**5.1 J**	--	--	--	--	--
Dissolved Gasses													
Carbon Dioxide	µg/L	--	--	--	--	**52000**	--	--	**100000**	--	--	--	--
Carbon Monoxide	µg/L	--	--	--	--	--	--	--	< 1000 U	--	--	--	--
Methane	µg/L	--	--	--	--	< 0.10 U	--	--	< 0.53 U	--	--	--	--
Biogeochemical Parameters													
Nitrogen	µg/L	--	--	--	--	< 16000 U	--	--	< 20000 U	--	--	--	--
Alkalinity	µg/L	--	--	--	--	**90000 J**	--	--	**32000**	--	--	--	--
Chloride	µg/L	--	--	**2900**	**2500**	**2700**	**5800**	**5500**	**4100**	--	--	--	--
Nitrate/Nitrite	µg/L	--	--	**650**	**3500**	--	**710**	**870**	--	--	--	--	--
Nitrate-N	µg/L	--	--	**650**	**3500**	< 300 UJ	**710**	**830**	**790**	--	--	--	--
Nitrite	µg/L	--	--	< 2 U	< 10 U	< 20 U	**2.6**	**37**	< 26 U	--	--	--	--
Sulfate	µg/L	--	--	**56400**	**56000**	**58000**	**36500**	**36300**	**35000 J**	--	--	--	--
Total Dissolved Solids	µg/L	--	--	**157000**	**183000**	**170000**	**81000**	**125000**	**98000**	--	--	--	--
Total Hardness	µg/L	--	--	**127000**	**132000**	--	**50500**	**58000**	--	--	--	--	--
Total Organic Carbon	µg/L	--	--	**1500**	**2700**	**3700**	**3000**	**2100**	< 1800 U	--	--	--	--

***Notes are provided on the last page of Table 6.**

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-3	FCA-3	FCA-3	FCA-3	FCA-4	FCA-4	FCA-4	FCA-4	FCA-5	FCA-5	FCA-5
		Sample Date:	2/25/2015	5/28/2015	8/31/2015	11/25/2015	6/15/2006	8/10/2006	8/10/2006	5/25/2011	6/14/2006	8/9/2006	5/31/2011
		Sample Identification:	PMRI-FCA-03(022715)	PMR1-FCA-3(052815)	PMR1-FCA-03(083115)	PMR1-FCA-03 (112515)	FCA-4-20060615	DUP-02(FCA-4)-20060810	FCA-4-20060810	PMR1FCA04(052511)	FCA-5-20060614	FCA-5-20060809	PMR1FCA05(053111)
Chemical	**Units**	**MCL**											
Metals													
Calcium, Total	µg/L	--	--	--	--	--	**7020**	**5640**	**5740**	--	**11100**	**9210**	--
Chromium, Total	µg/L	--	--	--	--	--	--	--	--	--	< 10 U	--	--
Iron, Dissolved	µg/L	--	--	**55 J**	--	--	--	--	--	< 100 U	--	--	**840**
Iron, Total	µg/L	--	--	--	--	--	< 100 U	< 100 U	< 100 U	**56 J**	< 100 U	< 100 U	**1100**
Lead, Total	µg/L	--	--	--	--	--	--	--	--	--	< 3 U	--	--
Magnesium, Total	µg/L	--	--	--	--	--	**9570**	**8030**	**8150**	--	**5610**	**5910**	--
Manganese, Dissolved	µg/L	--	--	--	--	--	--	--	--	**14 J**	--	--	**100**
Manganese, Total	µg/L	--	--	--	--	--	**42.5**	< 15 U	< 15 U	**23**	**88.4**	**75.9**	**110**
Potassium, Total	µg/L	--	--	--	--	--	--	--	--	--	**5790**	--	--
Sodium, Total	µg/L	--	--	--	--	--	< 5000 U	< 10000 U	< 10000 U	--	**6430**	< 10000 U	--
Zinc, Total	µg/L	--	--	--	--	--	--	--	--	--	**52.5**	--	--
Semi-Volatile Organic Compounds													
2-Methylnaphthalene	µg/L	--	--	--	--	--	< 2 U	< 2.1 U	< 2 U	--	< 2 U	< 2 U	--
Acenaphthene	µg/L	--	--	--	--	--	< 2 U	< 2.1 U	< 2 U	--	< 2 U	< 2 U	--
Acenaphthylene	µg/L	--	--	--	--	--	< 2 U	< 2.1 U	< 2 U	--	< 2 U	< 2 U	--
bis(2-Ethylhexyl)phthalate	µg/L	--	--	--	--	--	< 2 U	< 2.1 U	< 2 U	--	**1.3 J**	< 2 U	--
Carbazole	µg/L	--	--	--	--	--	< 2 U	< 2.1 U	< 2 U	--	< 2 U	< 2 U	--
Dibenzofuran	µg/L	--	--	--	--	--	< 5 U	< 5.3 U	< 5 U	--	< 5 U	< 5 U	--
Fluorene	µg/L	--	--	--	--	--	< 2 U	< 2.1 U	< 2 U	--	< 2 U	< 2 U	--
Naphthalene	µg/L	--	--	--	--	--	< 2 U	< 2.1 U	< 2 U	--	< 2 U	< 2 U	--
Nitrobenzene	µg/L	--	--	--	--	--	< 2 U	< 2.1 U	< 2 U	--	< 2 U	< 2 U	--
Phenanthrene	µg/L	--	--	--	--	--	< 2 U	< 2.1 U	< 2 U	--	**0.4 J**	< 2 U	--
Phenol	µg/L	--	--	--	--	--	< 5 U	< 5.3 U	< 5 U	--	< 5 U	< 5 U	--
Total SVOC TICs	µg/L	--	--	--	--	--	**0**	**0**	**0**	--	**4 J**	**7.5 J**	--
Total Petroleum Hydrocarbon (TPH)													
TPH as Pentane	µg/L	--	--	--	--	--	< 510 U	< 530 U	< 510 U	--	< 510 U	< 510 U	--
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
1,1,1-Trichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
1,1,2,2-Tetrachloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
1,1-Dichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
1,1-Dichloroethene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
1,1-Dichloropropene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
1,2,3-Trichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
1,2,3-Trichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
1,2,4-Trichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
1,2,4-Trimethylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
1,2-Dibromo-3-chloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
1,2-Dibromoethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
1,2-Dichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
1,2-Dichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
1,2-Dichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
1,3,5-Trimethylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
1,3-Dichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
1,3-Dichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
1,4-Dichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
2,2-Dichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
2-Butanone (MEK)	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	--	--	--	< 10 U	--	--	< 10 U
2-Chlorotoluene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
4-Chlorotoluene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
4-Methyl-2-Pentanone	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	--	--	--	< 10 U	--	--	< 10 U
Acetone	µg/L	--	**8.3 J**	< 10 U	< 10 U	**1.9 J**	< 10 U	< 10 U	< 10 U	< 20 U	< 10 U	< 10 U	< 20 U
Benzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1 U	< 1 U	< 1 U	< 5.0 U	< 1 U	**0.33 J**	< 5.0 U
Bromobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
Bromochloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
Bromodichloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
Bromoform	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
Bromomethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
Carbon Disulfide	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
Carbon Tetrachloride	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
CFC-11	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
CFC-12	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
Chlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-3	FCA-3	FCA-3	FCA-3	FCA-4	FCA-4	FCA-4	FCA-4	FCA-5	FCA-5	FCA-5
		Sample Date:	2/25/2015	5/28/2015	8/31/2015	11/25/2015	6/15/2006	8/10/2006	8/10/2006	5/25/2011	6/14/2006	8/9/2006	5/31/2011
		Sample Identification:	PMRI-FCA-03(022715)	PMR1-FCA-3(052815)	PMR1-FCA-03(083115)	PMR1-FCA-03 (112515)	FCA-4-20060615	DUP-02(FCA-4)-20060810	FCA-4-20060810	PMR1FCA04(052511)	FCA-5-20060614	FCA-5-20060809	PMR1FCA05(053111)
Chemical	**Units**	**MCL**											
Chlorodibromomethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
Chloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
Chloroform	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U
Chloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
cis-1,2-Dichloroethene	µg/L	70	**3.3**	**3.6**	**3.9**	**3.9**	< 1 U	< 1 U	< 1 U	< 5.0 U	**0.73 J**	**2.1**	**0.99 J**
cis-1,3-Dichloropropene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
Cyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Cymene (p-Isopropyltoluene)	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
Dibromomethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
Dichloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
Ethane	µg/L	--	--	--	--	--	**0.17**	**0.12**	**0.13**	--	**1.1**	**5.7**	--
Ethene	µg/L	--	--	--	--	--	< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	< 0.1 U	--
Ethylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
Hexachloro-1,3-butadiene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
Isopropylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
m,p-Xylene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	--	--	--	--
Methane	µg/L	--	--	--	--	--	< 0.1 U	< 0.1 U	< 0.1 U	--	**0.82**	**0.15**	--
Methyl Acetate	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	--	--	--	< 10 U	--	--	< 10 U
Methylcyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyl-tert-butylether	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
m-Xylene	µg/L	--	--	--	--	--	--	--	--	< 5.0 U	--	--	< 5.0 U
Naphthalene	µg/L	--	**0.96**	**1.0**	**1.1**	**1.3**	--	--	--	< 5.0 U	--	--	**1.0 J**
N-Butylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	**0.14 J**	--	--	--	< 5.0 U	--	--	< 5.0 U
N-Propylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
o-Xylene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
sec-Butylbenzene	µg/L	--	**1.1**	**0.85**	**1.0**	**1.0**	--	--	--	< 5.0 U	--	--	**1.7 J**
Styrene (Monomer)	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
tert-Butylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
Tetrachloroethene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U
Toluene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	**0.25 J**
Total Xylenes	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U
trans-1,2-Dichloroethene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U
trans-1,3-Dichloropropene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
Trichloroethene	µg/L	5	**24**	**28**	**31**	**34**	< 1 U	< 1 U	**0.54 J**	**0.42 J**	**11.2**	**7.8**	**3.9 J**
Vinyl chloride	µg/L	2	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	< 2.0 U	--	--	< 2.0 U
Total VOC TICs	µg/L	--	--	--	--	--	0	0	0	--	0	0	--
Dissolved Gasses													
Carbon Dioxide	µg/L	--	--	--	--	--	--	--	--	**89000**	--	--	--
Carbon Monoxide	µg/L	--	--	--	--	--	--	--	--	< 1000 U	--	--	--
Methane	µg/L	--	--	--	--	--	--	--	--	< 0.22 U	--	--	--
Biogeochemical Parameters													
Nitrogen	µg/L	--	--	--	--	--	--	--	--	< 17000 U	--	--	--
Alkalinity	µg/L	--	--	--	--	--	--	--	--	< 19000 U	--	--	**57000**
Chloride	µg/L	--	--	--	--	--	**2900**	**2300**	**2300**	**1500**	**10600**	**4800**	**3700**
Nitrate/Nitrite	µg/L	--	--	--	--	--	**410**	**470**	**460**	--	**2500**	< 100 U	--
Nitrate-N	µg/L	--	--	**480**	--	--	**410**	**470**	**460**	**350**	**2500**	< 110 U	< 280 UJ
Nitrite	µg/L	--	--	--	--	--	< 2 U	< 10 U	< 10 U	< 20 U	< 10 U	**13**	**7.6 J**
Sulfate	µg/L	--	--	**39000**	--	--	**36700**	**32900**	**32700**	**25000 J**	**11000**	**11900**	**15000**
Total Dissolved Solids	µg/L	--	--	--	--	--	**63000**	**75000**	**68000**	**87000**	**100000**	**76000**	**92000**
Total Hardness	µg/L	--	--	--	--	--	**54500**	**54000**	**52000**	--	**60000**	**54000**	--
Total Organic Carbon	µg/L	--	--	< 900 U	--	--	< 1000 U	< 1000 U	< 1000 U	< 2400 U	**3400**	**1600**	**2600**

***Notes are provided on the last page of Table 6.**

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-5	FCA-5	FCA-5	FCA-5	FCA-5	FCA-5	FCA-5	FCA-5	FCA-6	FCA-6	FCA-6
		Sample Date:	9/1/2011	4/17/2014	9/3/2014	10/14/2014	2/25/2015	5/28/2015	8/31/2015	11/25/2015	6/14/2006	8/9/2006	5/31/2011
		Sample Identification:	PMR1FCA05(090111)	PMR1-FCA05(041714)	PMR1FCA-05(090314)	PMR1FCA-5(101414)	PMRI-FCA-05(022515)	PMR1-FCA-5(052815)	PMR1-FCA-05(083115)	PMR1-FCA-05 (112515)	FCA-6-20060614	FCA-6-20060809	PMR1FCA06(053111)
Chemical	**Units**	**MCL**											
Metals													
Calcium, Total	µg/L	--	--	--	--	--	--	--	--	--	**5520**	**5700**	--
Chromium, Total	µg/L	--	--	--	--	--	--	--	--	--	< 10 U	--	--
Iron, Dissolved	µg/L	--	--	--	--	--	--	**230**	--	--	--	--	**60 J**
Iron, Total	µg/L	--	--	--	--	--	--	--	--	--	< 100 U	< 100 U	**4800**
Lead, Total	µg/L	--	--	--	--	--	--	--	--	--	< 3 U	--	--
Magnesium, Total	µg/L	--	--	--	--	--	--	--	--	--	< 5000 U	< 5000 U	--
Manganese, Dissolved	µg/L	--	--	--	--	--	--	--	--	--	--	--	**4700**
Manganese, Total	µg/L	--	--	--	--	--	--	--	--	--	**2510**	**2720**	**4500**
Potassium, Total	µg/L	--	--	--	--	--	--	--	--	--	< 5000 U	--	--
Sodium, Total	µg/L	--	--	--	--	--	--	--	--	--	< 5000 U	< 10000 U	--
Zinc, Total	µg/L	--	--	--	--	--	--	--	--	--	**50.1**	--	--
Semi-Volatile Organic Compounds													
2-Methylnaphthalene	µg/L	--	--	--	--	--	--	--	--	--	< 2 U	< 2 U	--
Acenaphthene	µg/L	--	--	--	--	--	--	--	--	--	**0.7 J**	< 2 U	--
Acenaphthylene	µg/L	--	--	--	--	--	--	--	--	--	< 2 U	< 2 U	--
bis(2-Ethylhexyl)phthalate	µg/L	--	--	--	--	--	--	--	--	--	< 2 U	< 2 U	--
Carbazole	µg/L	--	--	--	--	--	--	--	--	--	< 2 U	< 2 U	--
Dibenzofuran	µg/L	--	--	--	--	--	--	--	--	--	**0.49 J**	< 5 U	--
Fluorene	µg/L	--	--	--	--	--	--	--	--	--	**0.62 J**	< 2 U	--
Naphthalene	µg/L	--	--	--	--	--	--	--	--	--	< 2 U	< 2 U	--
Nitrobenzene	µg/L	--	--	--	--	--	--	--	--	--	< 2 U	< 2 U	--
Phenanthrene	µg/L	--	--	--	--	--	--	--	--	--	< 2 U	< 2 U	--
Phenol	µg/L	--	--	--	--	--	--	--	--	--	< 5 U	< 5 U	--
Total SVOC TICs	µg/L	--	--	--	--	--	--	--	--	--	**0**	**0**	--
Total Petroleum Hydrocarbon (TPH)													
TPH as Pentane	µg/L	--	--	--	--	--	--	--	--	--	< 510 U	< 530 U	--
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
1,1,1-Trichloroethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
1,1,2,2-Tetrachloroethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
1,1-Dichloroethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
1,1-Dichloroethene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
1,1-Dichloropropene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
1,2,3-Trichlorobenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
1,2,3-Trichloropropane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
1,2,4-Trichlorobenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
1,2,4-Trimethylbenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
1,2-Dibromo-3-chloropropane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
1,2-Dibromoethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
1,2-Dichlorobenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
1,2-Dichloroethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
1,2-Dichloropropane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
1,3,5-Trimethylbenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
1,3-Dichlorobenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
1,3-Dichloropropane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
1,4-Dichlorobenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
2,2-Dichloropropane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
2-Butanone (MEK)	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	--	--	< 10 U
2-Chlorotoluene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
4-Chlorotoluene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
4-Methyl-2-Pentanone	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	--	--	< 10 U
Acetone	µg/L	--	< 20 U	< 10 U	< 10 U	< 10 U	**7.1 J**	< 10 U	< 10 U	**3.1 J**	< 10 U	< 10 U	< 20 U
Benzene	µg/L	--	**0.20 J**	**0.20 J**	**0.19 J**	**0.18**	**0.19 J**	< 0.50 U	< 1.0 U	< 1.0 U	< 1 U	< 1 U	< 5.0 U
Bromobenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
Bromochloromethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
Bromodichloromethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
Bromoform	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
Bromomethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
Carbon Disulfide	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
Carbon Tetrachloride	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
CFC-11	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
CFC-12	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
Chlorobenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-5	FCA-5	FCA-5	FCA-5	FCA-5	FCA-5	FCA-5	FCA-5	FCA-6	FCA-6	FCA-6
		Sample Date:	9/1/2011	4/17/2014	9/3/2014	10/14/2014	2/25/2015	5/28/2015	8/31/2015	11/25/2015	6/14/2006	8/9/2006	5/31/2011
		Sample Identification:	PMR1FCA05(090111)	PMR1-FCA05(041714)	PMR1FCA-05(090314)	PMR1FCA-5(101414)	PMRI-FCA-05(022515)	PMR1-FCA-5(052815)	PMR1-FCA-05(083115)	PMR1-FCA-05 (112515)	FCA-6-20060614	FCA-6-20060809	PMR1FCA06(053111)
Chemical	**Units**	**MCL**											
Chlorodibromomethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
Chloroethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
Chloroform	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1 U	< 1 U	< 5.0 U
Chloromethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
cis-1,2-Dichloroethene	µg/L	70	**1.1 J**	**0.83**	**0.72**	**0.81**	**0.64**	**0.42 J**	**0.60 J**	**0.52 J**	< 1 U	< 1 U	< 5.0 U
cis-1,3-Dichloropropene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
Cyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Cymene (p-Isopropyltoluene)	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
Dibromomethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
Dichloromethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 UJ
Ethane	µg/L	--	--	--	--	--	--	--	--	--	< 0.1 U	**0.16**	--
Ethene	µg/L	--	--	--	--	--	--	--	--	--	< 0.1 U	< 0.1 U	--
Ethylbenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
Hexachloro-1,3-butadiene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
Isopropylbenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	**0.16 J**
m,p-Xylene	µg/L	--	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--
Methane	µg/L	--	--	--	--	--	--	--	--	--	< 0.1 U	< 0.1 U	--
Methyl Acetate	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	--	--	< 10 U
Methylcyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyl-tert-butylether	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
m-Xylene	µg/L	--	< 5.0 U	--	--	--	--	--	--	--	--	--	< 5.0 U
Naphthalene	µg/L	--	**0.95 J**	**0.98**	**0.76**	**< 0.99**	**1.1**	**0.77**	**0.89 J**	**0.87 J**	--	--	**0.33 J**
N-Butylbenzene	µg/L	--	< 5.0 U	**0.19 J**	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
N-Propylbenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
o-Xylene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
sec-Butylbenzene	µg/L	--	**0.95 J**	**1.7**	**1.1**	**1.6**	**1.8**	**1.2**	**1.7**	**1.7**	--	--	**0.95 J**
Styrene (Monomer)	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
tert-Butylbenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	**0.27 J**	--	--	< 5.0 U
Tetrachloroethene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1 U	< 1 U	< 5.0 U
Toluene	µg/L	--	**0.39 J**	**0.38 J**	**0.20 J**	**0.24**	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
Total Xylenes	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1 U	< 1 U	< 5.0 U
trans-1,2-Dichloroethene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1 U	< 1 U	< 5.0 U
trans-1,3-Dichloropropene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U
Trichloroethene	µg/L	5	**3.4 J**	**3.5**	**2.9**	**3.2**	**2.7**	**1.6**	**3.2**	**3.1**	< 1 U	< 1 U	**0.40 J**
Vinyl chloride	µg/L	2	< 2.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 2.0 U
Total VOC TICs	µg/L	--	--	--	--	--	--	--	--	--	0	0	--
Dissolved Gasses													
Carbon Dioxide	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Monoxide	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Biogeochemical Parameters													
Nitrogen	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity	µg/L	--	--	--	--	--	--	--	--	--	--	--	**41000**
Chloride	µg/L	--	--	--	--	--	--	--	--	--	**4500**	**4600**	**2900**
Nitrate/Nitrite	µg/L	--	--	--	--	--	--	--	--	--	**400**	**990**	--
Nitrate-N	µg/L	--	--	--	--	--	--	< 42 U	--	--	**400**	**990**	< 160 UJ
Nitrite	µg/L	--	--	--	--	--	--	--	--	--	< 10 U	< 10 U	**15 J**
Sulfate	µg/L	--	--	--	--	--	--	**9600**	--	--	**5000**	**4800**	**8000**
Total Dissolved Solids	µg/L	--	--	--	--	--	--	--	--	--	**62000**	< 10000 U	**55000**
Total Hardness	µg/L	--	--	--	--	--	--	--	--	--	**56000**	**35600**	--
Total Organic Carbon	µg/L	--	--	--	--	--	--	**2000**	--	--	< 1000 U	< 1000 U	**3400**

***Notes are provided on the last page of Table 6.**

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-7	FCA-7	FCA-7	FCA-7	FCA-7	FCA-7	FCA-7	FCA-7	FCA-7	FCA-7
		Sample Date:	6/15/2006	8/9/2006	5/26/2011	4/14/2014	9/3/2014	10/15/2014	2/25/2015	5/28/2015	9/1/2015	11/25/2015
		Sample Identification:	FCA-7-20060615	FCA-7-20060809	PMR1FCA07(052611)	PMR1-FCA07(041414)	PMR1FCA-07(090314)	PMR1FCA-07(101514)	PMRI-FCA-07(022515)	PMR1-FCA-7(052815)	PMR1-FCA-07(090115)	PMR1-FCA-07 (112515)
Chemical	**Units**	**MCL**										
Metals												
Calcium, Total	µg/L	--	**12900**	**11700**	--	--	--	--	--	--	--	--
Chromium, Total	µg/L	--	< 10 U	--	--	--	--	--	--	--	--	--
Iron, Dissolved	µg/L	--	--	--	**510**	--	--	--	--	**170**	--	--
Iron, Total	µg/L	--	< 100 U	**452**	**840**	--	--	--	--	--	--	--
Lead, Total	µg/L	--	< 3 U	--	--	--	--	--	--	--	--	--
Magnesium, Total	µg/L	--	**9320**	**9290**	--	--	--	--	--	--	--	--
Manganese, Dissolved	µg/L	--	--	--	**350**	--	--	--	--	--	--	--
Manganese, Total	µg/L	--	**219**	**214**	**350**	--	--	--	--	--	--	--
Potassium, Total	µg/L	--	**5630**	--	--	--	--	--	--	--	--	--
Sodium, Total	µg/L	--	**8880**	< 10000 U	--	--	--	--	--	--	--	--
Zinc, Total	µg/L	--	**24.3**	--	--	--	--	--	--	--	--	--
Semi-Volatile Organic Compounds												
2-Methylnaphthalene	µg/L	--	**3.3**	**0.58 J**	--	--	--	--	--	--	--	--
Acenaphthene	µg/L	--	< 2 U	< 2 U	--	--	--	--	--	--	--	--
Acenaphthylene	µg/L	--	< 2 U	< 2 U	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	µg/L	--	**1.4 J**	**1 J**	--	--	--	--	--	--	--	--
Carbazole	µg/L	--	< 2 U	< 2 U	--	--	--	--	--	--	--	--
Dibenzofuran	µg/L	--	**3.2 J**	**0.63 J**	--	--	--	--	--	--	--	--
Fluorene	µg/L	--	**3.4**	**0.68 J**	--	--	--	--	--	--	--	--
Naphthalene	µg/L	--	**5.7**	**1.2 J**	--	--	--	--	--	--	--	--
Nitrobenzene	µg/L	--	< 2 U	< 2 U	--	--	--	--	--	--	--	--
Phenanthrene	µg/L	--	**4.2**	**0.74 J**	--	--	--	--	--	--	--	--
Phenol	µg/L	--	< 5 U	< 5 U	--	--	--	--	--	--	--	--
Total SVOC TICs	µg/L	--	**137 J**	**69.2 J**	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbon (TPH)												
TPH as Pentane	µg/L	--	< 560 U	< 500 U	--	--	--	--	--	--	--	--
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,1,1-Trichloroethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,1-Dichloropropene	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,2,3-Trichloropropane	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,2-Dibromo-3-chloropropane	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,2-Dibromoethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,3-Dichlorobenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,3-Dichloropropane	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
2,2-Dichloropropane	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
2-Butanone (MEK)	µg/L	--	--	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
2-Chlorotoluene	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
4-Chlorotoluene	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
4-Methyl-2-Pentanone	µg/L	--	--	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Acetone	µg/L	--	< 10 U	< 10 U	< 20 U	< 10 U	< 10 U	< 10 U	**6.7 J**	< 10 U	< 10 U	< 10 U
Benzene	µg/L	--	**0.56 J**	**0.45 J**	**0.30 J**	**0.30 J**	**0.23 J**	**0.22**	**0.29 J**	**0.22 J**	**0.20 J**	**0.20 J**
Bromobenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Bromochloromethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Bromodichloromethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Bromoform	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Bromomethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Carbon Disulfide	µg/L	--	--	--	< 5.0 U	**0.34 J**	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Carbon Tetrachloride	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
CFC-11	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
CFC-12	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Chlorobenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-7	FCA-7	FCA-7	FCA-7	FCA-7	FCA-7	FCA-7	FCA-7	FCA-7	FCA-7
		Sample Date:	6/15/2006	8/9/2006	5/26/2011	4/14/2014	9/3/2014	10/15/2014	2/25/2015	5/28/2015	9/1/2015	11/25/2015
		Sample Identification:	FCA-7-20060615	FCA-7-20060809	PMR1FCA07(052611)	PMR1-FCA07(041414)	PMR1FCA-07(090314)	PMR1FCA-07(101514)	PMRI-FCA-07(022515)	PMR1-FCA-7(052815)	PMR1-FCA-07(090115)	PMR1-FCA-07 (112515)
Chemical	**Units**	**MCL**										
Chlorodibromomethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Chloroethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Chloroform	µg/L	--	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Chloromethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
cis-1,2-Dichloroethene	µg/L	70	**2.4**	**2.1**	**1.6 J**	**1.4**	**0.95**	**0.95**	**1.1**	**0.87**	**0.74 J**	**0.83 J**
cis-1,3-Dichloropropene	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Cyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--
Cymene (p-Isopropyltoluene)	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	**0.62**	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Dibromomethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Dichloromethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Ethane	µg/L	--	**8.54**	**8.1**	--	--	--	--	--	--	--	--
Ethene	µg/L	--	< 0.1 U	< 0.1 U	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Hexachloro-1,3-butadiene	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Isopropylbenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
m,p-Xylene	µg/L	--	--	--	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Methane	µg/L	--	**0.15**	< 0.1 U	--	--	--	--	--	--	--	--
Methyl Acetate	µg/L	--	--	--	--	--	--	--	--	--	--	--
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	--	--	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Methylcyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--
Methyl-tert-butylether	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
m-Xylene	µg/L	--	--	--	< 5.0 U	--	--	--	--	--	--	--
Naphthalene	µg/L	--	--	--	**0.32 J**	**0.71**	**0.24 J**	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
N-Butylbenzene	µg/L	--	--	--	< 5.0 U	**0.23 J**	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
N-Propylbenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
o-Xylene	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
sec-Butylbenzene	µg/L	--	--	--	**2.2 J**	**2.5**	**0.56**	**0.87**	**1.1**	**0.70**	**0.93 J**	**1.3**
Styrene (Monomer)	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
tert-Butylbenzene	µg/L	--	--	--	< 5.0 U	**0.29 J**	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	**0.19 J**
Tetrachloroethene	µg/L	--	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Toluene	µg/L	--	--	--	**0.44 J**	**0.83**	**0.25 J**	< 0.50 U	**0.18 J**	< 0.50 U	< 1.0 U	< 1.0 U
Total Xylenes	µg/L	--	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	µg/L	--	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
trans-1,3-Dichloropropene	µg/L	--	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Trichloroethene	µg/L	5	**14.3**	**9.1**	**7.4**	**5.5**	**3.6**	**4**	**4.8**	**3.5**	**4.5**	**4.6**
Vinyl chloride	µg/L	2	--	--	< 2.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
Total VOC TICs	µg/L	--	**85.9 J**	**64 J**	--	--	--	--	--	--	--	--
Dissolved Gasses												
Carbon Dioxide	µg/L	--	--	--	**100000**	--	--	--	--	--	--	--
Carbon Monoxide	µg/L	--	--	--	--	--	--	--	--	--	--	--
Methane	µg/L	--	--	--	**6.6**	--	--	--	--	--	--	--
Biogeochemical Parameters												
Nitrogen	µg/L	--	--	--	< 21000 U	--	--	--	--	--	--	--
Alkalinity	µg/L	--	--	--	**71000**	--	--	--	--	--	--	--
Chloride	µg/L	--	**6000**	**5700**	**4200**	--	--	--	--	--	--	--
Nitrate/Nitrite	µg/L	--	< 100 U	**210**	--	--	--	--	--	--	--	--
Nitrate-N	µg/L	--	< 110 U	**210**	< 36 UJ	--	--	--	--	< 13 U	--	--
Nitrite	µg/L	--	< 10 U	< 10 U	< 20 U	--	--	--	--	--	--	--
Sulfate	µg/L	--	**11200**	**10700**	**14000 J**	--	--	--	--	**10000**	--	--
Total Dissolved Solids	µg/L	--	**118000**	**102000**	**100000**	--	--	--	--	--	--	--
Total Hardness	µg/L	--	**84000**	**69300**	--	--	--	--	--	--	--	--
Total Organic Carbon	µg/L	--	**2100**	**2600**	< 2400 U	--	--	--	--	**1800**	--	--

***Notes are provided on the last page of Table 6.**

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-8	FCA-8	FCA-8	FCA-8	FCA-9	FCA-9	FCA-9	FCA-9	FCA-9	FCA-9	FCA-9
		Sample Date:	6/15/2006	6/15/2006	8/9/2006	5/26/2011	6/15/2006	8/11/2006	6/3/2011	5/6/2014	9/4/2014	10/15/2014	10/15/2014
		Sample Identification:	DUP-01(FCA-8)-20060615	FCA-8-20060615	FCA-8-20060809	PMR1FCA08(052611)	FCA-9-20060615	FCA-9-20060811	PMR1FCA09(060311)	PMR1-FCA09(050614)	PMR1FCA-09(090414)	DUP-01(101514)	PMR1FCA-09(101514)
Chemical	**Units**	**MCL**											
Metals													
Calcium, Total	µg/L	--	< 5000 U	**5570**	< 5000 U	--	**26600**	**29500**	--	--	--	--	--
Chromium, Total	µg/L	--	< 10 U	< 10 U	--	--	--	--	--	--	--	--	--
Iron, Dissolved	µg/L	--	--	--	--	**6500**	--	--	**64 J**	--	--	--	--
Iron, Total	µg/L	--	**2940**	**2820**	**6950**	**6800**	< 100 U	**1160**	**4000**	--	--	--	--
Lead, Total	µg/L	--	< 3 U	< 3 U	--	--	--	--	--	--	--	--	--
Magnesium, Total	µg/L	--	**5470**	**6060**	**5590**	--	< 5000 U	< 5000 U	--	--	--	--	--
Manganese, Dissolved	µg/L	--	--	--	--	**14000**	--	--	**6.1 J**	--	--	--	--
Manganese, Total	µg/L	--	**24600**	**26200**	**21300**	**15000**	< 15 U	**53.1**	**45**	--	--	--	--
Potassium, Total	µg/L	--	< 5000 U	< 5000 U	--	--	--	--	--	--	--	--	--
Sodium, Total	µg/L	--	< 5000 U	< 5000 U	< 10000 U	--	< 5000 U	< 10000 U	--	--	--	--	--
Zinc, Total	µg/L	--	< 20 U	< 20 U	--	--	--	--	--	--	--	--	--
Semi-Volatile Organic Compounds													
2-Methylnaphthalene	µg/L	--	**3.4**	**2.8**	**2.4**	--	< 2 U	< 2.1 U	--	--	--	--	--
Acenaphthene	µg/L	--	**4.6**	**4.2**	**3.9**	--	< 2 U	< 2.1 U	--	--	--	--	--
Acenaphthylene	µg/L	--	**0.65 J**	**0.6 J**	**0.42 J**	--	< 2 U	< 2.1 U	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	µg/L	--	< 2 U	< 2 U	< 2 U	--	< 2 U	< 2.1 U	--	--	--	--	--
Carbazole	µg/L	--	**1.2 J**	**0.98 J**	**1.2 J**	--	< 2 U	< 2.1 U	--	--	--	--	--
Dibenzofuran	µg/L	--	**3.8 J**	**3.6 J**	**3.3 J**	--	< 5 U	< 5.3 U	--	--	--	--	--
Fluorene	µg/L	--	**5.6**	**4.9**	**4.8**	--	< 2 U	< 2.1 U	--	--	--	--	--
Naphthalene	µg/L	--	**1.1 J**	**1.1 J**	**0.71 J**	--	< 2 U	< 2.1 U	--	--	--	--	--
Nitrobenzene	µg/L	--	< 2 U	< 2 U	< 2 U	--	< 2 U	< 2.1 U	--	--	--	--	--
Phenanthrene	µg/L	--	**6**	**5.2**	**4.8**	--	< 2 U	< 2.1 U	--	--	--	--	--
Phenol	µg/L	--	< 5 U	< 5 U	< 5 U	--	< 5 U	< 5.3 U	--	--	--	--	--
Total SVOC TICs	µg/L	--	**250.6 J**	**194.6 J**	**133.2 J**	--	**286.2 J**	**0**	--	--	--	--	--
Total Petroleum Hydrocarbon (TPH)													
TPH as Pentane	µg/L	--	< 530 U	< 510 U	< 520 U	--	< 510 U	< 520 U	--	--	--	--	--
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,1,1-Trichloroethane	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,1,2,2-Tetrachloroethane	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,1-Dichloroethane	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,1-Dichloroethene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,1-Dichloropropene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2,3-Trichlorobenzene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2,3-Trichloropropane	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2,4-Trichlorobenzene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2,4-Trimethylbenzene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2-Dibromo-3-chloropropane	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2-Dibromoethane	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2-Dichlorobenzene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2-Dichloroethane	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2-Dichloropropane	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,3,5-Trimethylbenzene	µg/L	--	--	--	--	**0.28 J**	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,3-Dichlorobenzene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,3-Dichloropropane	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,4-Dichlorobenzene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
2,2-Dichloropropane	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
2-Butanone (MEK)	µg/L	--	--	--	--	< 10 U	--	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
2-Chlorotoluene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
4-Chlorotoluene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
4-Methyl-2-Pentanone	µg/L	--	--	--	--	< 10 U	--	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Acetone	µg/L	--	< 10 U	< 10 U	< 10 U	< 20 U	< 10 U	< 10 U	< 20 U	< 10 U	< 10 U	< 10 U	< 10 U
Benzene	µg/L	--	< 1 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Bromobenzene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Bromochloromethane	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Bromodichloromethane	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Bromoform	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Bromomethane	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Carbon Disulfide	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Carbon Tetrachloride	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
CFC-11	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
CFC-12	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Chlorobenzene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-8	FCA-8	FCA-8	FCA-8	FCA-9	FCA-9	FCA-9	FCA-9	FCA-9	FCA-9	FCA-9
		Sample Date:	6/15/2006	6/15/2006	8/9/2006	5/26/2011	6/15/2006	8/11/2006	6/3/2011	5/6/2014	9/4/2014	10/15/2014	10/15/2014
		Sample Identification:	DUP-01(FCA-8)-20060615	FCA-8-20060615	FCA-8-20060809	PMR1FCA08(052611)	FCA-9-20060615	FCA-9-20060811	PMR1FCA09(060311)	PMR1-FCA09(050614)	PMR1FCA-09(090414)	DUP-01(101514)	PMR1FCA-09(101514)
Chemical	**Units**	**MCL**											
Chlorodibromomethane	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Chloroethane	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Chloroform	µg/L	--	< 1 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Chloromethane	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
cis-1,2-Dichloroethene	µg/L	70	< 1 U	< 1 U	**1.3**	**0.55 J**	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 0.50 U	**0.41**	**0.38**
cis-1,3-Dichloropropene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Cyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Cymene (p-Isopropyltoluene)	µg/L	--	--	--	--	**1.2 J**	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Dibromomethane	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Dichloromethane	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	**0.19 J**	< 0.50 U	< 0.50 U
Ethane	µg/L	--	**16.1**	**8.6**	**18**	--	**0.23**	**1.1**	--	--	--	--	--
Ethene	µg/L	--	< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	< 0.1 U	--	--	--	--	--
Ethylbenzene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Hexachloro-1,3-butadiene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Isopropylbenzene	µg/L	--	--	--	--	**1.6 J**	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
m,p-Xylene	µg/L	--	--	--	--	--	--	--	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Methane	µg/L	--	< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	< 0.1 U	--	--	--	--	--
Methyl Acetate	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	--	--	--	--	< 10 U	--	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Methylcyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyl-tert-butylether	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
m-Xylene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	--	--	--	--
Naphthalene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
N-Butylbenzene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
N-Propylbenzene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
o-Xylene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
sec-Butylbenzene	µg/L	--	--	--	--	**3.8 J**	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Styrene (Monomer)	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
tert-Butylbenzene	µg/L	--	--	--	--	**0.43 J**	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Tetrachloroethene	µg/L	--	< 1 U	< 1 U	< 1 U	< 5.0 U	< 1 U	**0.54 J**	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Toluene	µg/L	--	--	--	--	**0.23 J**	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Total Xylenes	µg/L	--	< 1 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
trans-1,2-Dichloroethene	µg/L	--	< 1 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
trans-1,3-Dichloropropene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Trichloroethene	µg/L	5	< 1 U	**1.2**	**2.4**	**2.3 J**	**0.65 J**	< 1 U	**0.82 J**	**0.30 J**	**0.43 J**	**0.57**	**0.63**
Vinyl chloride	µg/L	2	--	--	--	< 2.0 U	--	--	< 2.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Total VOC TICs	µg/L	--	**178 J**	**114.1 J**	**125.9 J**	--	**5.3 J**	0	--	--	--	--	--
Dissolved Gasses													
Carbon Dioxide	µg/L	--	--	--	--	**67000**	--	--	**25000**	--	--	--	--
Carbon Monoxide	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methane	µg/L	--	--	--	--	< 3.4 U	--	--	**71**	--	--	--	--
Biogeochemical Parameters													
Nitrogen	µg/L	--	--	--	--	< 22000 U	--	--	< 17000 U	--	--	--	--
Alkalinity	µg/L	--	--	--	--	**66000**	--	--	**110000**	--	--	--	--
Chloride	µg/L	--	< 2000 U	< 2000 U	< 2000 U	**1300**	< 2000 U	< 2000 U	**1500**	--	--	--	--
Nitrate/Nitrite	µg/L	--	< 100 U	< 100 U	< 100 U	--	**680**	**1100**	--	--	--	--	--
Nitrate-N	µg/L	--	< 110 U	< 110 U	< 110 U	< 20 UJ	**680**	**1100**	**700**	--	--	--	--
Nitrite	µg/L	--	< 10 U	< 10 U	< 10 U	< 20 U	< 2 U	< 10 U	< 20 U	--	--	--	--
Sulfate	µg/L	--	**7800**	**6800**	**5100**	< 5700 UJ	**5800**	**6400**	**4200**	--	--	--	--
Total Dissolved Solids	µg/L	--	**95000**	**99000**	**35000**	**72000**	**96000**	**120000**	**100000**	--	--	--	--
Total Hardness	µg/L	--	**80000**	**72000**	**59400**	--	**78800**	**128000**	--	--	--	--	--
Total Organic Carbon	µg/L	--	**1700**	**1700**	**1500**	< 2100 U	**10100**	**6000**	**3400**	--	--	--	--

***Notes are provided on the last page of Table 6.**

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-9	FCA-9	FCA-9	FCA-9	FCA-10	FCA-10	FCA-10	FCA-10	FCA-12	FCA-12	FCA-12
		Sample Date:	2/27/2015	5/28/2015	8/31/2015	11/25/2015	6/15/2006	8/10/2006	5/25/2011	5/25/2011	6/15/2006	8/7/2006	5/25/2011
		Sample Identification:	PMRI-FCA-09(022715)	PMR1-FCA-9(052815)	PMR1-FCA-09(083115)	PMR1-FCA-09 (112515)	FCA-10-20060615	FCA-10-20060810	PMR1DUP01(052511)	PMR1FCA10(052511)	FCA-12-20060615	FCA-12-20060807	PMR1FCA12(052511)
Chemical	**Units**	**MCL**											
Metals													
Calcium, Total	µg/L	--	--	--	--	--	**6920**	**6110**	--	--	**10400**	**11300**	--
Chromium, Total	µg/L	--	--	--	--	--	--	--	--	--	< 10 U	--	--
Iron, Dissolved	µg/L	--	--	< 100 U	--	--	--	--	< 100 U	< 100 U	--	--	< 100 U
Iron, Total	µg/L	--	--	--	--	--	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	**374**	**430**
Lead, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium, Total	µg/L	--	--	--	--	--	**6940**	**6780**	--	--	**5520**	**5620**	--
Manganese, Dissolved	µg/L	--	--	--	--	--	--	--	**220**	**210**	--	--	< 15 U
Manganese, Total	µg/L	--	--	--	--	--	**299**	**299**	**200**	--	**59.9**	< 15 U	**9.3 J**
Potassium, Total	µg/L	--	--	--	--	--	--	--	--	--	< 5000 U	--	--
Sodium, Total	µg/L	--	--	--	--	--	**5750**	< 10000 U	--	--	**5470**	< 10000 U	--
Zinc, Total	µg/L	--	--	--	--	--	--	--	--	--	< 20 U	--	--
Semi-Volatile Organic Compounds													
2-Methylnaphthalene	µg/L	--	--	--	--	--	< 2 U	< 2 U	--	--	< 2 U	< 2 U	--
Acenaphthene	µg/L	--	--	--	--	--	< 2 U	< 2 U	--	--	< 2 U	< 2 U	--
Acenaphthylene	µg/L	--	--	--	--	--	< 2 U	< 2 U	--	--	< 2 U	< 2 U	--
bis(2-Ethylhexyl)phthalate	µg/L	--	--	--	--	--	< 2 U	< 2 U	--	--	< 2 U	< 2 U	--
Carbazole	µg/L	--	--	--	--	--	< 2 U	< 2 U	--	--	< 2 U	< 2 U	--
Dibenzofuran	µg/L	--	--	--	--	--	< 5 U	< 5 U	--	--	< 5 U	< 5 U	--
Fluorene	µg/L	--	--	--	--	--	< 2 U	< 2 U	--	--	< 2 U	< 2 U	--
Naphthalene	µg/L	--	--	--	--	--	< 2 U	< 2 U	--	--	< 2 U	< 2 U	--
Nitrobenzene	µg/L	--	--	--	--	--	< 2 U	< 2 U	--	--	< 2 U	< 2 U	--
Phenanthrene	µg/L	--	--	--	--	--	< 2 U	< 2 U	--	--	< 2 U	< 2 U	--
Phenol	µg/L	--	--	--	--	--	< 5 U	< 5 U	--	--	< 5 U	< 5 U	--
Total SVOC TICs	µg/L	--	--	--	--	--	**0**	**0**	--	--	**0**	**0**	--
Total Petroleum Hydrocarbon (TPH)													
TPH as Pentane	µg/L	--	--	--	--	--	< 510 U	< 510 U	--	--	< 510 U	< 510 U	--
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
1,1,1-Trichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
1,1,2,2-Tetrachloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
1,1-Dichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
1,1-Dichloroethene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
1,1-Dichloropropene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
1,2,3-Trichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
1,2,3-Trichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
1,2,4-Trichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
1,2,4-Trimethylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
1,2-Dibromo-3-chloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
1,2-Dibromoethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
1,2-Dichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
1,2-Dichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
1,2-Dichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
1,3,5-Trimethylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
1,3-Dichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
1,3-Dichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
1,4-Dichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
2,2-Dichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
2-Butanone (MEK)	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	--	--	< 10 U	< 10 U	--	--	< 10 U
2-Chlorotoluene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
4-Chlorotoluene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
4-Methyl-2-Pentanone	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	--	--	< 10 U	< 10 U	--	--	< 10 U
Acetone	µg/L	--	**7.4 J**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 20 U	< 20 U	< 10 U	< 10 U	< 20 U
Benzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1 U	< 1 U	< 5.0 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U
Bromobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
Bromochloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
Bromodichloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
Bromoform	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
Bromomethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
Carbon Disulfide	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
Carbon Tetrachloride	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
CFC-11	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
CFC-12	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
Chlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-9	FCA-9	FCA-9	FCA-9	FCA-10	FCA-10	FCA-10	FCA-10	FCA-12	FCA-12	FCA-12
		Sample Date:	2/27/2015	5/28/2015	8/31/2015	11/25/2015	6/15/2006	8/10/2006	5/25/2011	5/25/2011	6/15/2006	8/7/2006	5/25/2011
		Sample Identification:	PMRI-FCA-09(022715)	PMR1-FCA-9(052815)	PMR1-FCA-09(083115)	PMR1-FCA-09 (112515)	FCA-10-20060615	FCA-10-20060810	PMR1DUP01(052511)	PMR1FCA10(052511)	FCA-12-20060615	FCA-12-20060807	PMR1FCA12(052511)
Chemical	**Units**	**MCL**											
Chlorodibromomethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
Chloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
Chloroform	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1 U	< 1 U	< 5.0 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U
Chloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
cis-1,2-Dichloroethene	µg/L	70	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1 U	< 1 U	**0.19 J**	< 5.0 UJ	< 1 U	< 1 U	< 5.0 U
cis-1,3-Dichloropropene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
Cyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Cymene (p-Isopropyltoluene)	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
Dibromomethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
Dichloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
Ethane	µg/L	--	--	--	--	--	< 0.1 U	< 0.1 U	--	--	< 0.1 U	< 0.1 U	--
Ethene	µg/L	--	--	--	--	--	< 0.1 U	< 0.1 U	--	--	< 0.1 U	< 0.1 U	--
Ethylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
Hexachloro-1,3-butadiene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
Isopropylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
m,p-Xylene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	--	--	--	--	--
Methane	µg/L	--	--	--	--	--	**0.14**	**0.24**	--	--	< 0.1 U	< 0.1 U	--
Methyl Acetate	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	--	--	< 10 U	< 10 U	--	--	< 10 U
Methylcyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyl-tert-butylether	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
m-Xylene	µg/L	--	--	--	--	--	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
Naphthalene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
N-Butylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
N-Propylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
o-Xylene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
sec-Butylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
Styrene (Monomer)	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
tert-Butylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
Tetrachloroethene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1 U	< 1 U	< 5.0 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U
Toluene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	**0.20 J**
Total Xylenes	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1 U	< 1 U	< 5.0 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U
trans-1,2-Dichloroethene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1 U	< 1 U	< 5.0 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U
trans-1,3-Dichloropropene	µg/L	--	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 5.0 U	< 5.0 U	--	--	< 5.0 U
Trichloroethene	µg/L	5	**0.81**	< 0.50 U	< 1.0 U	**0.54 J**	**1.5**	**1.5**	**1.2 J**	**1.1 J**	< 1 U	< 1 U	< 5.0 U
Vinyl chloride	µg/L	2	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	--	--	< 2.0 U	< 2.0 U	--	--	< 2.0 U
Total VOC TICs	µg/L	--	--	--	--	--	0	0	--	--	0	0	--
Dissolved Gasses													
Carbon Dioxide	µg/L	--	--	--	--	--	--	--	**120000**	**110000**	--	--	**56000**
Carbon Monoxide	µg/L	--	--	--	--	--	--	--	< 1000 U	< 1000 U	--	--	< 1000 U
Methane	µg/L	--	--	--	--	--	--	--	< 1.8 U	< 1.3 U	--	--	< 0.51 U
Biogeochemical Parameters													
Nitrogen	µg/L	--	--	--	--	--	--	--	< 22000 U	< 16000 U	--	--	< 16000 U
Alkalinity	µg/L	--	--	--	--	--	--	--	< 21000 U	< 28000 U	--	--	**36000**
Chloride	µg/L	--	--	--	--	--	**16500**	**2900**	**2400**	**2400**	**2000**	**2000**	**1900**
Nitrate/Nitrite	µg/L	--	--	--	--	--	**790**	**780**	--	--	**290**	**270**	--
Nitrate-N	µg/L	--	--	**810**	--	--	**790**	**780**	**1100**	**1100**	**290**	**270**	**720**
Nitrite	µg/L	--	--	--	--	--	< 2 U	< 10 U	< 20 U	< 20 U	< 10 U	< 10 U	< 20 U
Sulfate	µg/L	--	--	**2600**	--	--	**168000**	**33600**	**31000 J**	**31000 J**	**28200**	**29100**	**23000 J**
Total Dissolved Solids	µg/L	--	--	--	--	--	**66000**	**80000**	**78000**	**72000**	**73000**	**78000**	**74000**
Total Hardness	µg/L	--	--	--	--	--	**40400**	**54000**	--	--	**60000**	**47500**	--
Total Organic Carbon	µg/L	--	--	**4300**	--	--	< 1000 U	< 1000 U	< 1300 U	< 1700 U	**1800**	< 1000 U	< 1400 U

***Notes are provided on the last page of Table 6.**

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-13	FCA-13	FCA-13	FCA-13	FCA-15	FCA-15	FCA-15	FCA-15	FCA-16	FCA-16
		Sample Date:	6/16/2006	8/7/2006	5/24/2011	5/27/2015	6/14/2006	8/8/2006	5/27/2011	5/29/2015	6/13/2006	8/8/2006
		Sample Identification:	FCA-13-20060616	FCA-13-20060807	PMR1FCA13(052411)	PMR1-FCA-13 (052715)	FCA-15-20060614	FCA-15-20060808	PMR1FCA15(052711)	PMR1-FCA-15(052915)	FCA-16-20060613	FCA-16-20060808
Chemical	**Units**	**MCL**										
Metals												
Calcium, Total	µg/L	--	**10700**	**7060**	--	--	**42500**	**33400**	--	--	**8140**	**6750**
Chromium, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--
Iron, Dissolved	µg/L	--	--	--	< 100 U	< 100 U	--	--	< 100 U	< 100 U	--	--
Iron, Total	µg/L	--	< 100 U	< 100 U	**1800**	--	< 100 U	**372**	**270**	--	**15100**	**37000**
Lead, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--
Magnesium, Total	µg/L	--	**5040**	< 5000 U	--	--	**8410**	**9180**	--	--	< 5000 U	< 5000 U
Manganese, Dissolved	µg/L	--	--	--	< 15 U	--	--	--	**36**	--	--	--
Manganese, Total	µg/L	--	**34.4**	**23.3**	**130**	--	< 15 U	**42.3**	**43**	--	**504**	**460**
Potassium, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--
Sodium, Total	µg/L	--	**8190**	< 10000 U	--	--	**10200**	< 10000 U	--	--	**14400**	**13800**
Zinc, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--
Semi-Volatile Organic Compounds												
2-Methylnaphthalene	µg/L	--	< 2.2 U	< 2.2 U	--	--	< 2 U	< 2.1 U	--	--	< 2.1 U	< 2.1 U
Acenaphthene	µg/L	--	< 2.2 U	< 2.2 U	--	--	< 2 U	< 2.1 U	--	--	< 2.1 U	< 2.1 U
Acenaphthylene	µg/L	--	< 2.2 U	< 2.2 U	--	--	< 2 U	< 2.1 U	--	--	< 2.1 U	< 2.1 U
bis(2-Ethylhexyl)phthalate	µg/L	--	< 2.2 U	< 2.2 U	--	--	**4.7**	< 2.1 U	--	--	< 2.1 U	**2.7**
Carbazole	µg/L	--	< 2.2 U	< 2.2 U	--	--	< 2 U	< 2.1 U	--	--	< 2.1 U	< 2.1 U
Dibenzofuran	µg/L	--	< 5.4 U	< 5.6 U	--	--	< 5 U	< 5.2 U	--	--	< 5.2 U	< 5.2 U
Fluorene	µg/L	--	< 2.2 U	< 2.2 U	--	--	< 2 U	< 2.1 U	--	--	< 2.1 U	< 2.1 U
Naphthalene	µg/L	--	< 2.2 U	< 2.2 U	--	--	< 2 U	< 2.1 U	--	--	< 2.1 U	< 2.1 U
Nitrobenzene	µg/L	--	< 2.2 U	< 2.2 U	--	--	< 2 U	< 2.1 U	--	--	< 2.1 U	< 2.1 U
Phenanthrene	µg/L	--	< 2.2 U	< 2.2 U	--	--	< 2 U	< 2.1 U	--	--	< 2.1 U	< 2.1 U
Phenol	µg/L	--	< 5.4 U	< 5.6 U	--	--	< 5 U	< 5.2 U	--	--	< 5.2 U	< 5.2 U
Total SVOC TICs	µg/L	--	**0**	**0**	--	--	**5.8 J**	**0**	--	--	**29.9 J**	**0**
Total Petroleum Hydrocarbon (TPH)												
TPH as Pentane	µg/L	--	< 520 U	< 510 U	--	--	--	--	--	--	--	--
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
1,1,1-Trichloroethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
1,1,2,2-Tetrachloroethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
1,1-Dichloroethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
1,1-Dichloroethene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
1,1-Dichloropropene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
1,2,3-Trichlorobenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
1,2,3-Trichloropropane	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
1,2,4-Trichlorobenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
1,2,4-Trimethylbenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
1,2-Dibromo-3-chloropropane	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
1,2-Dibromoethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
1,2-Dichlorobenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
1,2-Dichloroethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
1,2-Dichloropropane	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
1,3,5-Trimethylbenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
1,3-Dichlorobenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
1,3-Dichloropropane	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
1,4-Dichlorobenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
2,2-Dichloropropane	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
2-Butanone (MEK)	µg/L	--	--	--	< 10 U	< 10 U	--	--	< 10 U	< 10 UJ	--	--
2-Chlorotoluene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
4-Chlorotoluene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
4-Methyl-2-Pentanone	µg/L	--	--	--	< 10 U	< 10 U	--	--	< 10 U	< 10 UJ	--	--
Acetone	µg/L	--	< 10 U	< 10 U	< 20 U	< 10 U	< 10 U	< 10 U	< 20 U	< 10 UJ	< 10 U	< 10 U
Benzene	µg/L	--	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 1 U	< 1 U	< 5.0 U	< 0.50 UJ	< 1 U	< 1 U
Bromobenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
Bromochloromethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
Bromodichloromethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
Bromoform	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
Bromomethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 U	--	--
Carbon Disulfide	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 U	--	--
Carbon Tetrachloride	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
CFC-11	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
CFC-12	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 U	--	--
Chlorobenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-13	FCA-13	FCA-13	FCA-13	FCA-15	FCA-15	FCA-15	FCA-15	FCA-16	FCA-16
		Sample Date:	6/16/2006	8/7/2006	5/24/2011	5/27/2015	6/14/2006	8/8/2006	5/27/2011	5/29/2015	6/13/2006	8/8/2006
		Sample Identification:	FCA-13-20060616	FCA-13-20060807	PMR1FCA13(052411)	PMR1-FCA-13 (052715)	FCA-15-20060614	FCA-15-20060808	PMR1FCA15(052711)	PMR1-FCA-15(052915)	FCA-16-20060613	FCA-16-20060808
Chemical	**Units**	**MCL**										
Chlorodibromomethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
Chloroethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
Chloroform	µg/L	--	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 1 U	< 1 U	< 5.0 U	< 0.50 UJ	< 1 U	< 1 U
Chloromethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 U	--	--
cis-1,2-Dichloroethene	µg/L	70	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 1 U	< 1 U	< 5.0 U	< 0.50 UJ	< 1 U	< 1 U
cis-1,3-Dichloropropene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
Cyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--
Cymene (p-Isopropyltoluene)	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
Dibromomethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
Dichloromethane	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
Ethane	µg/L	--	< 0.1 U	< 0.1 U	--	--	< 0.1 U	< 0.1 U	--	--	**1.1**	< 0.1 U
Ethene	µg/L	--	**0.19**	**0.11**	--	--	< 0.1 U	< 0.1 U	--	--	**0.37**	< 0.1 U
Ethylbenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
Hexachloro-1,3-butadiene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
Isopropylbenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
m,p-Xylene	µg/L	--	--	--	--	< 0.50 U	--	--	--	< 0.50 UJ	--	--
Methane	µg/L	--	**0.51**	**0.3**	--	--	< 0.1 U	< 0.1 U	--	--	**1.8**	**0.13**
Methyl Acetate	µg/L	--	--	--	--	--	--	--	--	--	--	--
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	--	--	--	< 10 U	< 10 U	--	--	< 10 U	< 10 UJ	--	--
Methylcyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--
Methyl-tert-butylether	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
m-Xylene	µg/L	--	--	--	< 5.0 U	--	--	--	< 5.0 U	--	--	--
Naphthalene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
N-Butylbenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
N-Propylbenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
o-Xylene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
sec-Butylbenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
Styrene (Monomer)	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
tert-Butylbenzene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
Tetrachloroethene	µg/L	--	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 1 U	< 1 U	< 5.0 U	< 0.50 UJ	< 1 U	< 1 U
Toluene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
Total Xylenes	µg/L	--	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 1 U	< 1 U	< 5.0 U	< 0.50 UJ	< 1 U	< 1 U
trans-1,2-Dichloroethene	µg/L	--	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 1 U	< 1 U	< 5.0 U	< 0.50 UJ	< 1 U	< 1 U
trans-1,3-Dichloropropene	µg/L	--	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	< 0.50 UJ	--	--
Trichloroethene	µg/L	5	**0.45 J**	< 1 U	**0.17 J**	< 0.50 U	< 1 U	< 1 U	< 5.0 U	< 0.50 UJ	< 1 U	< 1 U
Vinyl chloride	µg/L	2	--	--	< 2.0 U	< 0.50 U	--	--	< 2.0 U	< 0.50 UJ	--	--
Total VOC TICs	µg/L	--	0	0	--	--	0	0	--	--	0	0
Dissolved Gasses												
Carbon Dioxide	µg/L	--	--	--	**8300**	--	--	--	**48000**	--	--	--
Carbon Monoxide	µg/L	--	--	--	< 1000 U	--	--	--	--	--	--	--
Methane	µg/L	--	--	--	< 0.10 U	--	--	--	< 0.10 U	--	--	--
Biogeochemical Parameters												
Nitrogen	µg/L	--	--	--	< 21000 U	--	--	--	< 22000 U	--	--	--
Alkalinity	µg/L	--	--	--	**32000**	--	--	--	**9100 J**	--	--	--
Chloride	µg/L	--	**2900**	**2800**	**1800 J**	--	**67600**	**51800**	**77000**	--	**48200**	**54400**
Nitrate/Nitrite	µg/L	--	**660**	**740**	--	--	< 100 U	< 100 U	--	--	< 100 U	< 100 U
Nitrate-N	µg/L	--	**660**	**740**	**500**	**590**	< 110 U	< 110 U	< 91 UJ	**410 J**	< 110 U	< 110 U
Nitrite	µg/L	--	< 2 U	< 10 U	**9.5 J**	--	< 10 U	< 10 U	< 20 UJ	--	< 10 U	< 10 U
Sulfate	µg/L	--	**20900**	**23000**	**72000**	**34000**	**10900**	**6500**	**9200 J**	**24000 J**	**20500**	**58500**
Total Dissolved Solids	µg/L	--	**69000**	**80000**	**150000**	--	**276000**	**253000**	**240000**	--	**132000**	**141000**
Total Hardness	µg/L	--	**40400**	**33700**	--	--	**170000**	**121000**	--	--	**40000**	**31700**
Total Organic Carbon	µg/L	--	< 1000 U	< 1000 U	< 1000 U	**970 J**	< 1000 U	< 1000 U	< 1300 U	< 650 U	**1200**	**1900**

***Notes are provided on the last page of Table 6.**

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-16	FCA-17	FCA-17	FCA-17	FCA-17	FCA-18	FCA-18	FCA-18	FCA-19	FCA-19	FCA-19
		Sample Date:	5/27/2011	6/13/2006	8/7/2006	6/2/2011	5/29/2015	6/13/2006	8/7/2006	6/2/2011	6/12/2006	8/8/2006	6/1/2011
		Sample Identification:	PMR1FCA16(052711)	FCA-17-20060613	FCA-17-20060807	PMR1FCA17(060211)	PMR1-FCA-17(052915)	FCA-18-20060613	FCA-18-20060807	PMR1FCA18(060211)	FCA-19-20060612	FCA-19-20060808	PMR1FCA19(060111)
Chemical	**Units**	**MCL**											
Metals													
Calcium, Total	µg/L	--	--	**11500**	**12600**	--	--	< 5000 U	< 5000 U	--	**198000**	**98700**	--
Chromium, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Iron, Dissolved	µg/L	--	**8200**	--	--	**470**	**210**	--	--	< 100 U	--	--	< 100 U
Iron, Total	µg/L	--	**21000**	< 100 U	**988**	**2500**	--	< 100 U	< 100 U	**240**	< 100 U	**146**	**53 J**
Lead, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium, Total	µg/L	--	--	< 5000 U	< 5000 U	--	--	< 5000 U	< 5000 U	--	< 5000 U	< 5000 U	--
Manganese, Dissolved	µg/L	--	**150**	--	--	**43**	--	--	--	**5.2 J**	--	--	< 15 U
Manganese, Total	µg/L	--	**170**	< 15 U	**39.2**	**79**	--	< 15 U	< 15 U	**7.4 J**	< 15 U	< 15 U	< 15 U
Potassium, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Sodium, Total	µg/L	--	--	**19400**	**14300**	--	--	< 5000 U	< 10000 U	--	**55600**	**44800**	--
Zinc, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Semi-Volatile Organic Compounds													
2-Methylnaphthalene	µg/L	--	--	< 2 U	< 2 U	--	--	< 2 U	< 2 U	--	< 2 U	< 2.1 U	--
Acenaphthene	µg/L	--	--	< 2 U	< 2 U	--	--	< 2 U	< 2 U	--	< 2 U	< 2.1 U	--
Acenaphthylene	µg/L	--	--	< 2 U	< 2 U	--	--	< 2 U	< 2 U	--	< 2 U	< 2.1 U	--
bis(2-Ethylhexyl)phthalate	µg/L	--	--	< 2 U	< 2 U	--	--	< 2 U	< 2 U	--	**1.3 J**	**4.9**	--
Carbazole	µg/L	--	--	< 2 U	< 2 U	--	--	< 2 U	< 2 U	--	< 2 U	< 2.1 U	--
Dibenzofuran	µg/L	--	--	< 5 U	< 5 U	--	--	< 5 U	< 5 U	--	< 5 U	< 5.3 U	--
Fluorene	µg/L	--	--	< 2 U	< 2 U	--	--	< 2 U	< 2 U	--	< 2 U	< 2.1 U	--
Naphthalene	µg/L	--	--	< 2 U	< 2 U	--	--	< 2 U	< 2 U	--	< 2 U	< 2.1 U	--
Nitrobenzene	µg/L	--	--	< 2 U	< 2 U	--	--	< 2 U	< 2 U	--	< 2 U	< 2.1 U	--
Phenanthrene	µg/L	--	--	< 2 U	< 2 U	--	--	< 2 U	< 2 U	--	< 2 U	< 2.1 U	--
Phenol	µg/L	--	--	< 5 U	< 5 U	--	--	< 5 U	< 5 U	--	**1.8 J**	< 5.3 U	--
Total SVOC TICs	µg/L	--	--	**0**	**21.2 J**	--	--	**0**	**0**	--	**58.6 J**	**22.1 J**	--
Total Petroleum Hydrocarbon (TPH)													
TPH as Pentane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
1,1,1-Trichloroethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
1,1,2,2-Tetrachloroethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
1,1-Dichloroethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
1,1-Dichloroethene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
1,1-Dichloropropene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
1,2,3-Trichlorobenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
1,2,3-Trichloropropane	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
1,2,4-Trichlorobenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
1,2,4-Trimethylbenzene	µg/L	--	< 5.0 U	--	--	**0.92 J**	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
1,2-Dibromo-3-chloropropane	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
1,2-Dibromoethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
1,2-Dichlorobenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
1,2-Dichloroethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
1,2-Dichloropropane	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
1,3,5-Trimethylbenzene	µg/L	--	< 5.0 U	--	--	**0.49 J**	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
1,3-Dichlorobenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
1,3-Dichloropropane	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
1,4-Dichlorobenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
2,2-Dichloropropane	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
2-Butanone (MEK)	µg/L	--	< 10 U	--	--	< 10 U	< 10 U	--	--	< 10 U	--	--	**6.9 J**
2-Chlorotoluene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
4-Chlorotoluene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
4-Methyl-2-Pentanone	µg/L	--	< 10 U	--	--	< 10 U	< 10 U	--	--	< 10 U	--	--	**0.50 J**
Acetone	µg/L	--	< 20 U	< 10 U	< 10 U	< 20 U	< 10 U	< 10 U	< 10 U	< 20 U	**21.9**	**26.7**	< 51 U
Benzene	µg/L	--	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U
Bromobenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
Bromochloromethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
Bromodichloromethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
Bromoform	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
Bromomethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
Carbon Disulfide	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
Carbon Tetrachloride	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
CFC-11	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
CFC-12	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
Chlorobenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-16	FCA-17	FCA-17	FCA-17	FCA-17	FCA-18	FCA-18	FCA-18	FCA-19	FCA-19	FCA-19
		Sample Date:	5/27/2011	6/13/2006	8/7/2006	6/2/2011	5/29/2015	6/13/2006	8/7/2006	6/2/2011	6/12/2006	8/8/2006	6/1/2011
		Sample Identification:	PMR1FCA16(052711)	FCA-17-20060613	FCA-17-20060807	PMR1FCA17(060211)	PMR1-FCA-17(052915)	FCA-18-20060613	FCA-18-20060807	PMR1FCA18(060211)	FCA-19-20060612	FCA-19-20060808	PMR1FCA19(060111)
Chemical	**Units**	**MCL**											
Chlorodibromomethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
Chloroethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
Chloroform	µg/L	--	< 5.0 U	< 1 U	**0.25 J**	< 5.0 U	< 0.50 U	< 1 U	< 1 U	< 5.0 U	**0.44 J**	< 1 U	< 5.0 U
Chloromethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	**0.89 J**
cis-1,2-Dichloroethene	µg/L	70	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U
cis-1,3-Dichloropropene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
Cyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Cymene (p-Isopropyltoluene)	µg/L	--	< 5.0 U	--	--	**0.26 J**	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
Dibromomethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
Dichloromethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
Ethane	µg/L	--	--	< 0.1 U	**0.19**	--	--	< 0.1 U	< 0.1 U	--	**0.11**	< 0.1 U	--
Ethene	µg/L	--	--	**0.2**	**0.59**	--	--	< 0.1 U	< 0.1 U	--	**0.17**	**0.42**	--
Ethylbenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
Hexachloro-1,3-butadiene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
Isopropylbenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
m,p-Xylene	µg/L	--	--	--	--	--	< 0.50 U	--	--	--	--	--	--
Methane	µg/L	--	--	**0.14**	**0.4**	--	--	< 0.1 U	< 0.1 U	--	**0.27**	**0.46**	--
Methyl Acetate	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	--	< 10 U	--	--	< 10 U	< 10 U	--	--	< 10 U	--	--	**2.3 J**
Methylcyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyl-tert-butylether	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	**0.80 J**
m-Xylene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	--	--	< 5.0 U
Naphthalene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
N-Butylbenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
N-Propylbenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
o-Xylene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
sec-Butylbenzene	µg/L	--	< 5.0 U	--	--	**0.26 J**	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
Styrene (Monomer)	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
tert-Butylbenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
Tetrachloroethene	µg/L	--	< 5.0 U	< 1 U	**0.51 J**	< 5.0 U	< 0.50 U	< 1 U	< 1 U	< 5.0 U	< 1 U	**0.51 J**	**0.29 J**
Toluene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	**0.33 J**
Total Xylenes	µg/L	--	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U
trans-1,2-Dichloroethene	µg/L	--	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U
trans-1,3-Dichloropropene	µg/L	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U
Trichloroethene	µg/L	5	< 5.0 U	**5.8**	**3**	< 5.0 U	< 0.50 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U
Vinyl chloride	µg/L	2	< 2.0 U	--	--	< 2.0 U	< 0.50 U	--	--	< 2.0 U	--	--	**0.22 J**
Total VOC TICs	µg/L	--	--	0	0	--	--	0	0	--	0	0	--
Dissolved Gasses													
Carbon Dioxide	µg/L	--	**40000**	--	--	**13000**	--	--	--	**34000**	--	--	--
Carbon Monoxide	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methane	µg/L	--	< 0.57 U	--	--	**470**	--	--	--	**0.86**	--	--	--
Biogeochemical Parameters													
Nitrogen	µg/L	--	< 18000 U	--	--	< 28000 U	--	--	--	< 18000 U	--	--	--
Alkalinity	µg/L	--	**20000**	--	--	< 41000 U	--	--	--	< 10000 U	--	--	**92000**
Chloride	µg/L	--	**35000**	**4900**	**3900**	**2200**	--	**3800**	**3200**	**3200**	**23200**	**16900**	**17000**
Nitrate/Nitrite	µg/L	--	--	**1200**	**620**	--	--	**3000**	**3600**	--	**3200**	**3900**	--
Nitrate-N	µg/L	--	< 41 UJ	**1200**	**600**	**480**	**650 J**	**3000**	**3600**	**2800**	**3100**	**3200**	< 27 UJ
Nitrite	µg/L	--	< 20 UJ	**27**	**18**	**9.6 J**	--	< 10 U	< 10 U	< 20 U	**51**	**690**	**2200**
Sulfate	µg/L	--	**13000 J**	**42200**	**25700**	**3400**	**890 J**	**5600**	**6000**	**10000**	**218000**	**122000**	**110000**
Total Dissolved Solids	µg/L	--	**150000**	**152000**	**112000**	**62000**	--	**47000**	**32000**	**42000**	**791000**	**475000**	**140000**
Total Hardness	µg/L	--	--	**52000**	**39600**	--	--	**36000**	**19800**	--	**522000**	**242000**	--
Total Organic Carbon	µg/L	--	< 2500 U	**3500**	< 1000 U	< 1800 U	**2800**	< 1000 U	< 1000 U	< 1000 U	**7100**	**4000**	**5700**

***Notes are provided on the last page of Table 6.**

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-19	FCA-20	FCA-20	FCA-20	FCA-21	FCA-21	FCA-21	FCA-21	FCA-22	FCA-22	FCA-22
		Sample Date:	5/28/2015	6/12/2006	8/8/2006	6/1/2011	6/14/2006	8/9/2006	6/1/2011	6/4/2015	6/14/2006	8/9/2006	8/9/2006
		Sample Identification:	PMR1-FCA-19(052815)	FCA-20-20060612	FCA-20-20060808	PMR1FCA20(060111)	FCA-21-20060614	FCA-21-20060809	PMR1FCA21(060111)	PMR1-FCA-21(060415)	FCA-22-20060614	DUP-01(FCA-22)-20060809	FCA-22-20060809
Chemical	**Units**	**MCL**											
Metals													
Calcium, Total	µg/L	--	--	**8910**	**9400**	--	**52800**	**15400**	--	--	**7160**	**6390**	**6390**
Chromium, Total	µg/L	--	--	--	--	--	**581**	--	--	--	--	--	--
Iron, Dissolved	µg/L	--	< 100 U	--	--	< 100 U	--	--	< 100 U	**110**	--	--	--
Iron, Total	µg/L	--	--	< 100 U	**745**	**900**	< 100 U	**1270**	**2900**	--	< 100 U	< 100 U	< 100 U
Lead, Total	µg/L	--	--	--	--	--	**3.2**	--	--	--	--	--	--
Magnesium, Total	µg/L	--	--	**8570**	**8250**	--	< 5000 U	< 5000 U	--	--	**5900**	**5530**	**5670**
Manganese, Dissolved	µg/L	--	--	--	--	**13 J**	--	--	**11 J**	--	--	--	--
Manganese, Total	µg/L	--	--	**15.8**	**55.7**	**56**	< 15 U	< 15 U	**33**	--	< 15 U	< 15 U	< 15 U
Potassium, Total	µg/L	--	--	--	--	--	**22100**	--	--	--	--	--	--
Sodium, Total	µg/L	--	--	**34600**	**37700**	--	**76700**	**34200**	--	--	**8650**	< 10000 U	< 10000 U
Zinc, Total	µg/L	--	--	--	--	--	**48.9**	--	--	--	--	--	--
Semi-Volatile Organic Compounds													
2-Methylnaphthalene	µg/L	--	--	< 2 U	< 2 U	--	< 2.2 U	< 2.2 U	--	--	< 2 U	< 2.1 U	< 2.1 U
Acenaphthene	µg/L	--	--	< 2 U	< 2 U	--	< 2.2 U	< 2.2 U	--	--	< 2 U	< 2.1 U	< 2.1 U
Acenaphthylene	µg/L	--	--	< 2 U	< 2 U	--	< 2.2 U	< 2.2 U	--	--	< 2 U	< 2.1 U	< 2.1 U
bis(2-Ethylhexyl)phthalate	µg/L	--	--	< 2 U	< 2 U	--	< 2.2 U	< 2.2 U	--	--	< 2 U	< 2.1 U	< 2.1 U
Carbazole	µg/L	--	--	< 2 U	< 2 U	--	< 2.2 U	< 2.2 U	--	--	< 2 U	< 2.1 U	< 2.1 U
Dibenzofuran	µg/L	--	--	< 5 U	< 5 U	--	< 5.4 U	< 5.6 U	--	--	< 5 U	< 5.2 U	< 5.3 U
Fluorene	µg/L	--	--	< 2 U	< 2 U	--	< 2.2 U	< 2.2 U	--	--	< 2 U	< 2.1 U	< 2.1 U
Naphthalene	µg/L	--	--	< 2 U	< 2 U	--	< 2.2 U	< 2.2 U	--	--	< 2 U	< 2.1 U	< 2.1 U
Nitrobenzene	µg/L	--	--	< 2 U	< 2 U	--	< 2.2 U	< 2.2 U	--	--	< 2 U	< 2.1 U	< 2.1 U
Phenanthrene	µg/L	--	--	< 2 U	< 2 U	--	< 2.2 U	< 2.2 U	--	--	< 2 U	< 2.1 U	< 2.1 U
Phenol	µg/L	--	--	< 5 U	< 5 U	--	< 5.4 U	< 5.6 U	--	--	< 5 U	< 5.2 U	< 5.3 U
Total SVOC TICs	µg/L	--	--	**0**	**4.9 J**	--	**49.6 J**	**29.2 J**	--	--	**0**	**4.8 J**	**0**
Total Petroleum Hydrocarbon (TPH)													
TPH as Pentane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
1,1,1-Trichloroethane	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
1,1-Dichloroethane	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
1,1-Dichloroethene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
1,1-Dichloropropene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
1,2,3-Trichlorobenzene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
1,2,3-Trichloropropane	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
1,2,4-Trichlorobenzene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
1,2,4-Trimethylbenzene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
1,2-Dibromoethane	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
1,2-Dichlorobenzene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
1,2-Dichloroethane	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
1,2-Dichloropropane	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
1,3,5-Trimethylbenzene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
1,3-Dichlorobenzene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
1,3-Dichloropropane	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
1,4-Dichlorobenzene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
2,2-Dichloropropane	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
2-Butanone (MEK)	µg/L	--	**1.6 J**	--	--	< 10 U	--	--	< 10 U	< 10 U	--	--	--
2-Chlorotoluene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
4-Chlorotoluene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
4-Methyl-2-Pentanone	µg/L	--	< 10 U	--	--	< 10 U	--	--	< 10 U	< 10 U	--	--	--
Acetone	µg/L	--	< 10 U	< 10 U	< 10 U	< 20 UJ	**6.2 J**	< 10 U	< 20 U	**2.4 J**	< 10 U	< 10 U	< 10 U
Benzene	µg/L	--	< 0.50 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 1 U	< 1 U	< 1 U
Bromobenzene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
Bromochloromethane	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
Bromodichloromethane	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
Bromoform	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
Bromomethane	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
Carbon Disulfide	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	**0.23 J**	< 0.50 U	--	--	--
Carbon Tetrachloride	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
CFC-11	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
CFC-12	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
Chlorobenzene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-19	FCA-20	FCA-20	FCA-20	FCA-21	FCA-21	FCA-21	FCA-21	FCA-22	FCA-22	FCA-22
		Sample Date:	5/28/2015	6/12/2006	8/8/2006	6/1/2011	6/14/2006	8/9/2006	6/1/2011	6/4/2015	6/14/2006	8/9/2006	8/9/2006
		Sample Identification:	PMR1-FCA-19(052815)	FCA-20-20060612	FCA-20-20060808	PMR1FCA20(060111)	FCA-21-20060614	FCA-21-20060809	PMR1FCA21(060111)	PMR1-FCA-21(060415)	FCA-22-20060614	DUP-01(FCA-22)-20060809	FCA-22-20060809
Chemical	**Units**	**MCL**											
Chlorodibromomethane	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
Chloroethane	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
Chloroform	µg/L	--	< 0.50 U	**0.34 J**	< 1 U	< 5.0 U	**1.8**	< 1 U	< 5.0 U	< 0.50 U	< 1 U	< 1 U	< 1 U
Chloromethane	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
cis-1,2-Dichloroethene	µg/L	70	< 0.50 U	< 1 U	< 1 U	< 5.0 U	**0.8 J**	**1.7**	**1.2 J**	**0.76**	< 1 U	< 1 U	< 1 U
cis-1,3-Dichloropropene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
Cyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Cymene (p-Isopropyltoluene)	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
Dibromomethane	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
Dichloromethane	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
Ethane	µg/L	--	--	< 0.1 U	< 0.1 U	--	< 0.1 U	< 0.1 U	--	--	< 0.1 U	< 0.1 U	< 0.1 U
Ethene	µg/L	--	--	< 0.1 U	< 0.1 U	--	< 0.1 U	**0.11**	--	--	< 0.1 U	< 0.1 U	< 0.1 U
Ethylbenzene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
Hexachloro-1,3-butadiene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
Isopropylbenzene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
m,p-Xylene	µg/L	--	< 0.50 U	--	--	--	--	--	--	< 0.50 U	--	--	--
Methane	µg/L	--	--	< 0.1 U	< 0.1 U	--	**0.14**	< 0.1 U	--	--	< 0.1 U	< 0.1 U	< 0.1 U
Methyl Acetate	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	--	< 10 U	--	--	< 10 U	--	--	< 10 U	< 10 U	--	--	--
Methylcyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyl-tert-butylether	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	**0.59 J**	**0.51**	--	--	--
m-Xylene	µg/L	--	--	--	--	< 5.0 U	--	--	< 5.0 U	--	--	--	--
Naphthalene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
N-Butylbenzene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
N-Propylbenzene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
o-Xylene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
sec-Butylbenzene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
Styrene (Monomer)	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
tert-Butylbenzene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
Tetrachloroethene	µg/L	--	< 0.50 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 1 U	< 1 U	< 1 U
Toluene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	**0.24 J**	< 0.50 U	--	--	--
Total Xylenes	µg/L	--	< 0.50 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 1 U	< 1 U	< 1 U
trans-1,2-Dichloroethene	µg/L	--	< 0.50 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 0.50 U	< 1 U	< 1 U	< 1 U
trans-1,3-Dichloropropene	µg/L	--	< 0.50 U	--	--	< 5.0 U	--	--	< 5.0 U	< 0.50 U	--	--	--
Trichloroethene	µg/L	5	< 0.50 U	< 1 U	< 1 U	< 5.0 U	< 1 U	**0.51 J**	**0.60 J**	< 0.50 U	**0.73 J**	**0.39 J**	**0.47 J**
Vinyl chloride	µg/L	2	< 0.50 U	--	--	< 2.0 U	--	--	< 2.0 U	< 0.50 U	--	--	--
Total VOC TICs	µg/L	--	--	0	0	--	0	0	--	--	0	0	0
Dissolved Gasses													
Carbon Dioxide	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Monoxide	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Biogeochemical Parameters													
Nitrogen	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity	µg/L	--	--	--	--	< 11000 U	--	--	**84000**	--	--	--	--
Chloride	µg/L	--	--	**84000**	**90800**	**190000**	**20200**	**5500**	**12000**	--	**25100**	**17800**	**17900**
Nitrate/Nitrite	µg/L	--	--	**3800**	**3500**	--	**390**	**2800**	--	--	**4400**	**3800**	**3700**
Nitrate-N	µg/L	--	**1600**	**3800**	**3500**	**3400 J**	**370**	**2800**	< 20 UJ	**370**	**4400**	**3800**	**3700**
Nitrite	µg/L	--	--	< 10 U	< 10 U	< 20 U	**23**	< 10 U	**8.1 J**	--	< 10 U	< 10 U	< 10 U
Sulfate	µg/L	--	**130000**	**5100**	**5000**	**11000**	**205000**	**80000**	**370000**	**410000**	**9700**	**11600**	**12000**
Total Dissolved Solids	µg/L	--	--	**190000**	**198000**	**410000**	**441000**	**219000**	**650000**	--	**84000**	**60000**	**58000**
Total Hardness	µg/L	--	--	**54000**	**59400**	--	**124000**	**54000**	--	--	**48000**	**37600**	**39600**
Total Organic Carbon	µg/L	--	**2800**	< 1000 U	< 1000 U	< 1000 U	**6700**	**2700**	**3300**	**3500**	< 1000 U	< 1000 U	< 1000 U

***Notes are provided on the last page of Table 6.**

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-22	FCA-23	FCA-23	FCA-23	FCA-24	FCA-24	FCA-24	FCA-24	FCA-25	FCA-25	FCA-25
		Sample Date:	6/1/2011	6/13/2006	8/8/2006	6/2/2011	6/13/2006	6/13/2006	8/8/2006	6/2/2011	5/27/2011	5/27/2011	9/1/2011
		Sample Identification:	PMR1FCA22(060111)	FCA-23-20060613	FCA-23-20060808	PMR1FCA23(060211)	DUP2(FCA-24)-20060613	FCA-24-20060613	FCA-24-20060808	PMR1FCA24(060211)	PMR1DUP02(052711)	PMR1FCA25(052711)	PMR1DUP01090111)
Chemical	**Units**	**MCL**											
Metals													
Calcium, Total	µg/L	--	--	**10200**	**9500**	--	< 5000 U	< 5000 U	< 5000 U	--	--	--	--
Chromium, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Iron, Dissolved	µg/L	--	< 100 U	--	--	< 100 U	--	--	--	< 100 U	**41 J**	**56 J**	--
Iron, Total	µg/L	--	< 100 U	< 100 U	< 100 U	**280**	< 100 U	< 100 U	< 100 U	**160**	**740**	**950**	--
Lead, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium, Total	µg/L	--	--	**8350**	**7960**	--	< 5000 U	< 5000 U	< 5000 U	--	--	--	--
Manganese, Dissolved	µg/L	--	< 15 U	--	--	**7.7 J**	--	--	--	**19**	**96**	**99**	--
Manganese, Total	µg/L	--	< 15 U	< 15 U	< 15 U	**11 J**	**59.2**	**19**	**28.3**	**23**	**110**	**120**	--
Potassium, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Sodium, Total	µg/L	--	--	**13900**	**13300**	--	**5140**	**7490**	< 10000 U	--	--	--	--
Zinc, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Semi-Volatile Organic Compounds													
2-Methylnaphthalene	µg/L	--	--	< 2 U	< 2 U	--	< 2.4 U	< 2 U	< 2.1 U	--	--	--	--
Acenaphthene	µg/L	--	--	< 2 U	< 2 U	--	< 2.4 U	< 2 U	< 2.1 U	--	--	--	--
Acenaphthylene	µg/L	--	--	< 2 U	< 2 U	--	< 2.4 U	< 2 U	< 2.1 U	--	--	--	--
bis(2-Ethylhexyl)phthalate	µg/L	--	--	< 2 U	< 2 U	--	< 2.4 U	< 2 U	< 2.1 U	--	--	--	--
Carbazole	µg/L	--	--	< 2 U	< 2 U	--	< 2.4 U	< 2 U	< 2.1 U	--	--	--	--
Dibenzofuran	µg/L	--	--	< 5 U	< 5 U	--	< 6 U	< 5 U	< 5.3 U	--	--	--	--
Fluorene	µg/L	--	--	< 2 U	< 2 U	--	< 2.4 U	< 2 U	< 2.1 U	--	--	--	--
Naphthalene	µg/L	--	--	< 2 U	< 2 U	--	< 2.4 U	< 2 U	< 2.1 U	--	--	--	--
Nitrobenzene	µg/L	--	--	< 2 U	< 2 U	--	< 2.4 U	< 2 U	< 2.1 U	--	--	--	--
Phenanthrene	µg/L	--	--	< 2 U	< 2 U	--	< 2.4 U	< 2 U	< 2.1 U	--	--	--	--
Phenol	µg/L	--	--	< 5 U	< 5 U	--	< 6 U	< 5 U	< 5.3 U	--	--	--	--
Total SVOC TICs	µg/L	--	--	**0**	**0**	--	**785 J**	**0**	**0**	--	--	--	--
Total Petroleum Hydrocarbon (TPH)													
TPH as Pentane	µg/L	--	--	**2000**	< 520 U	--	**1400**	**1100**	< 520 U	--	--	--	--
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1,1-Trichloroethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1,2,2-Tetrachloroethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloropropene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2,3-Trichlorobenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2,3-Trichloropropane	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2,4-Trichlorobenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2,4-Trimethylbenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dibromo-3-chloropropane	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dibromoethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dichlorobenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dichloroethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dichloropropane	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,3,5-Trimethylbenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,3-Dichlorobenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,3-Dichloropropane	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,4-Dichlorobenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2,2-Dichloropropane	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Butanone (MEK)	µg/L	--	< 10 U	--	--	< 10 U	--	--	--	< 10 U	< 10 U	< 10 U	< 10 U
2-Chlorotoluene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
4-Chlorotoluene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
4-Methyl-2-Pentanone	µg/L	--	< 10 U	--	--	< 10 U	--	--	--	< 10 U	< 10 U	< 10 U	< 10 U
Acetone	µg/L	--	< 20 U	< 10 U	< 10 U	< 20 U	< 10 U	< 10 U	< 10 U	< 20 U	< 20 U	< 20 U	< 20 U
Benzene	µg/L	--	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 1 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromobenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromochloromethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromodichloromethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromoform	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromomethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Carbon Disulfide	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	**0.36 J**
Carbon Tetrachloride	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
CFC-11	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
CFC-12	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chlorobenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-22	FCA-23	FCA-23	FCA-23	FCA-24	FCA-24	FCA-24	FCA-24	FCA-25	FCA-25	FCA-25
		Sample Date:	6/1/2011	6/13/2006	8/8/2006	6/2/2011	6/13/2006	6/13/2006	8/8/2006	6/2/2011	5/27/2011	5/27/2011	9/1/2011
		Sample Identification:	PMR1FCA22(060111)	FCA-23-20060613	FCA-23-20060808	PMR1FCA23(060211)	DUP2(FCA-24)-20060613	FCA-24-20060613	FCA-24-20060808	PMR1FCA24(060211)	PMR1DUP02(052711)	PMR1FCA25(052711)	PMR1DUP01090111)
Chemical	**Units**	**MCL**											
Chlorodibromomethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroethane	µg/L	--	< 5.0 U	--	--	< 5.0 UJ	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroform	µg/L	--	< 5.0 U	**0.5 J**	**0.58 J**	< 5.0 U	< 1 U	< 1 U	< 1 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloromethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	**0.65 J**	< 5.0 U	< 5.0 U	**0.51 J**
cis-1,2-Dichloroethene	µg/L	70	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 1 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,3-Dichloropropene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Cyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Cymene (p-Isopropyltoluene)	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Dibromomethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Dichloromethane	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Ethane	µg/L	--	--	< 0.1 U	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	--	--	--	--
Ethene	µg/L	--	--	< 0.1 U	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	--	--	--	--
Ethylbenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Hexachloro-1,3-butadiene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Isopropylbenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
m,p-Xylene	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methane	µg/L	--	--	< 0.1 U	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	--	--	--	--
Methyl Acetate	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	--	< 10 U	--	--	< 10 U	--	--	--	< 10 U	< 10 U	< 10 U	< 10 U
Methylcyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyl-tert-butylether	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
m-Xylene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Naphthalene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	**0.32 J**
N-Butylbenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
N-Propylbenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
o-Xylene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
sec-Butylbenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Styrene (Monomer)	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
tert-Butylbenzene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	µg/L	--	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 1 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	**0.39 J**	**0.34 J**	**0.22 J**
Total Xylenes	µg/L	--	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 1 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,2-Dichloroethene	µg/L	--	< 5.0 U	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 1 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ
trans-1,3-Dichloropropene	µg/L	--	< 5.0 U	--	--	< 5.0 U	--	--	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Trichloroethene	µg/L	5	**0.30 J**	< 1 U	< 1 U	< 5.0 U	< 1 U	< 1 U	< 1 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Vinyl chloride	µg/L	2	< 2.0 U	--	--	< 2.0 U	--	--	--	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Total VOC TICs	µg/L	--	--	0	0	--	0	0	0	--	--	--	--
Dissolved Gasses													
Carbon Dioxide	µg/L	--	--	--	--	**89000**	--	--	--	**62000**	**68000**	**65000**	--
Carbon Monoxide	µg/L	--	--	--	--	--	--	--	--	--	--	--	--
Methane	µg/L	--	--	--	--	< 0.10 U	--	--	--	< 0.10 U	< 0.26 U	< 0.34 U	--
Biogeochemical Parameters													
Nitrogen	µg/L	--	--	--	--	< 21000 U	--	--	--	< 20000 U	< 15000 U	< 15000 U	--
Alkalinity	µg/L	--	< 13000 U	--	--	< 10000 U	--	--	--	< 10000 U	**22000**	**24000**	--
Chloride	µg/L	--	**8900**	**48700**	**44900**	**65000**	**24000**	**26900**	**25100**	**36000**	**91000**	**90000**	--
Nitrate/Nitrite	µg/L	--	--	**3800**	**4300**	--	**1400**	**2000**	**2900**	--	--	--	--
Nitrate-N	µg/L	--	**4200 J**	**3800**	**4300**	**5200**	**1400**	**2000**	**2900**	**1800**	< 250 UJ	< 230 UJ	--
Nitrite	µg/L	--	< 20 U	< 10 U	< 10 U	< 20 U	< 2 U	< 10 U	< 10 U	< 20 U	< 20 UJ	< 20 UJ	--
Sulfate	µg/L	--	**18000**	**4900**	**5100**	**9400**	< 2000 U	< 2000 U	< 2000 U	**3100**	**25000 J**	**25000 J**	--
Total Dissolved Solids	µg/L	--	**76000**	**160000**	**144000**	**200000**	**52000**	**74000**	**46000**	**110000**	**270000**	**280000**	--
Total Hardness	µg/L	--	--	**60000**	**49500**	--	**54500**	**32000**	**25700**	--	--	--	--
Total Organic Carbon	µg/L	--	< 1100 U	< 1000 U	< 1000 U	< 1000 U	**1300**	< 1000 U	< 1000 U	< 1000 U	< 1000 U	< 1000 U	--

***Notes are provided on the last page of Table 6.**

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-25	FCA-25	FCA-25	FCA-25	FCA-25	FCA-25	FCA-25	FCA-25	FCA-26	FCA-26
		Sample Date:	9/1/2011	5/6/2014	9/3/2014	10/14/2014	2/25/2015	5/27/2015	8/31/2015	11/25/2015	5/7/2014	9/3/2014
		Sample Identification:	PMR1FCA25(090111)	PMR1-FCA25(050614)	PMR1FCA-25(090314)	PMR1FCA-25(101414)	PMRI-FCA-25(022515)	PMR1-FCA-25 (052715)	PMR1-FCA-25(083115)	PMR1-FCA-25 (112515)	PMR1-FCA26(050714)	PMR1FCA-26(090314)
Chemical	**Units**	**MCL**										
Metals												
Calcium, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--
Chromium, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--
Iron, Dissolved	µg/L	--	--	--	--	--	--	**1500**	--	--	--	--
Iron, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--
Lead, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--
Magnesium, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--
Manganese, Dissolved	µg/L	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--
Potassium, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--
Sodium, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--
Zinc, Total	µg/L	--	--	--	--	--	--	--	--	--	--	--
Semi-Volatile Organic Compounds												
2-Methylnaphthalene	µg/L	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	µg/L	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	µg/L	--	--	--	--	--	--	--	--	--	--	--
Carbazole	µg/L	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--	--	--	--	--	--	--	--
Fluorene	µg/L	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	µg/L	--	--	--	--	--	--	--	--	--	--	--
Phenol	µg/L	--	--	--	--	--	--	--	--	--	--	--
Total SVOC TICs	µg/L	--	--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbon (TPH)												
TPH as Pentane	µg/L	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
1,1,1-Trichloroethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
1,1,2,2-Tetrachloroethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
1,1-Dichloroethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
1,1-Dichloroethene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	**0.48 J**	**0.35 J**
1,1-Dichloropropene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
1,2,3-Trichlorobenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
1,2,3-Trichloropropane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
1,2,4-Trichlorobenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
1,2,4-Trimethylbenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
1,2-Dibromo-3-chloropropane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
1,2-Dibromoethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
1,2-Dichlorobenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
1,2-Dichloroethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
1,2-Dichloropropane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
1,3,5-Trimethylbenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
1,3-Dichlorobenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
1,3-Dichloropropane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
1,4-Dichlorobenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
2,2-Dichloropropane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
2-Butanone (MEK)	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
2-Chlorotoluene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
4-Chlorotoluene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
4-Methyl-2-Pentanone	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Acetone	µg/L	--	< 20 U	< 10 U	< 10 U	< 10 U	**6.3 J**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Benzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	**0.14**	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	**0.27 J**	**0.12 J**
Bromobenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Bromochloromethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Bromodichloromethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Bromoform	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Bromomethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Carbon Disulfide	µg/L	--	**0.37 J**	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	**1.7**
Carbon Tetrachloride	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
CFC-11	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
CFC-12	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Chlorobenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-25	FCA-25	FCA-25	FCA-25	FCA-25	FCA-25	FCA-25	FCA-25	FCA-26	FCA-26
		Sample Date:	9/1/2011	5/6/2014	9/3/2014	10/14/2014	2/25/2015	5/27/2015	8/31/2015	11/25/2015	5/7/2014	9/3/2014
		Sample Identification:	PMR1FCA25(090111)	PMR1-FCA25(050614)	PMR1FCA-25(090314)	PMR1FCA-25(101414)	PMRI-FCA-25(022515)	PMR1-FCA-25 (052715)	PMR1-FCA-25(083115)	PMR1-FCA-25 (112515)	PMR1-FCA26(050714)	PMR1FCA-26(090314)
Chemical	**Units**	**MCL**										
Chlorodibromomethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Chloroethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Chloroform	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Chloromethane	µg/L	--	**0.66 J**	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	**0.29 J**
cis-1,2-Dichloroethene	µg/L	70	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	**25**	**45**
cis-1,3-Dichloropropene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Cyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--
Cymene (p-Isopropyltoluene)	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Dibromomethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Dichloromethane	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Ethane	µg/L	--	--	--	--	--	--	--	--	--	--	--
Ethene	µg/L	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Hexachloro-1,3-butadiene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Isopropylbenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
m,p-Xylene	µg/L	--	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Methane	µg/L	--	--	--	--	--	--	--	--	--	--	--
Methyl Acetate	µg/L	--	--	--	--	--	--	--	--	--	--	--
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Methylcyclohexane	µg/L	--	--	--	--	--	--	--	--	--	--	--
Methyl-tert-butylether	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
m-Xylene	µg/L	--	< 5.0 U	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	--	**0.33 J**	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	**0.40 J**	**0.30 J**
N-Butylbenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
N-Propylbenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
o-Xylene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
sec-Butylbenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Styrene (Monomer)	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
tert-Butylbenzene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Tetrachloroethene	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Toluene	µg/L	--	**0.19 J**	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	**0.96**	< 0.50 U
Total Xylenes	µg/L	--	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
trans-1,2-Dichloroethene	µg/L	--	< 5.0 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	**0.45 J**	**0.38 J**
trans-1,3-Dichloropropene	µg/L	--	**2.2 J**	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Trichloroethene	µg/L	5	< 5.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	**160**	**71**
Vinyl chloride	µg/L	2	< 2.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.50 U	**0.19 J**
Total VOC TICs	µg/L	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses												
Carbon Dioxide	µg/L	--	--	--	--	--	--	--	--	--	--	--
Carbon Monoxide	µg/L	--	--	--	--	--	--	--	--	--	--	--
Methane	µg/L	--	--	--	--	--	--	--	--	--	--	--
Biogeochemical Parameters												
Nitrogen	µg/L	--	--	--	--	--	--	--	--	--	--	--
Alkalinity	µg/L	--	--	--	--	--	--	--	--	--	--	--
Chloride	µg/L	--	--	--	--	--	--	--	--	--	--	--
Nitrate/Nitrite	µg/L	--	--	--	--	--	--	--	--	--	--	--
Nitrate-N	µg/L	--	--	--	--	--	--	< 28 U	--	--	--	--
Nitrite	µg/L	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	--	--	--	--	--	--	**30000**	--	--	--	--
Total Dissolved Solids	µg/L	--	--	--	--	--	--	--	--	--	--	--
Total Hardness	µg/L	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	µg/L	--	--	--	--	--	--	**1200**	--	--	--	--

***Notes are provided on the last page of Table 6.**

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

		Sample Location:	FCA-26	FCA-26	FCA-26	FCA-26	FCA-26	FCA-26	FCA-26	FCA-26
		Sample Date:	10/15/2014	2/25/2015	2/25/2015	5/28/2015	5/28/2015	9/1/2015	11/25/2015	11/25/2015
		Sample Identification:	PMR1FCA-26(101514)	PMRI-DUP-01(022515)	PMRI-FCA-26(022515)	PMR1-DUP-01(052815)	PMR1-FCA-26(052815)	PMR1-FCA-26(090115)	PMR1-DUP-01 (112515)	PMR1-FCA-26 (112515)
Chemical	**Units**	**MCL**								
Metals										
Calcium, Total	µg/L	--	--	--	--	--	--	--	--	--
Chromium, Total	µg/L	--	--	--	--	--	--	--	--	--
Iron, Dissolved	µg/L	--	--	--	--	**2300**	**2400**	--	--	--
Iron, Total	µg/L	--	--	--	--	--	--	--	--	--
Lead, Total	µg/L	--	--	--	--	--	--	--	--	--
Magnesium, Total	µg/L	--	--	--	--	--	--	--	--	--
Manganese, Dissolved	µg/L	--	--	--	--	--	--	--	--	--
Manganese, Total	µg/L	--	--	--	--	--	--	--	--	--
Potassium, Total	µg/L	--	--	--	--	--	--	--	--	--
Sodium, Total	µg/L	--	--	--	--	--	--	--	--	--
Zinc, Total	µg/L	--	--	--	--	--	--	--	--	--
Semi-Volatile Organic Compounds										
2-Methylnaphthalene	µg/L	--	--	--	--	--	--	--	--	--
Acenaphthene	µg/L	--	--	--	--	--	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	µg/L	--	--	--	--	--	--	--	--	--
Carbazole	µg/L	--	--	--	--	--	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--	--	--	--	--	--
Fluorene	µg/L	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	--	--	--	--	--	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--	--	--	--	--	--
Phenanthrene	µg/L	--	--	--	--	--	--	--	--	--
Phenol	µg/L	--	--	--	--	--	--	--	--	--
Total SVOC TICs	µg/L	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbon (TPH)										
TPH as Pentane	µg/L	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds										
1,1,1,2-Tetrachloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,1-Trichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	µg/L	--	**0.66**	< 0.50 UJ	**0.96 J**	**0.60**	**0.62**	< 1.0 U	**0.45 J**	**0.41 J**
1,1-Dichloropropene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dibromo-3-chloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dibromoethane	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
2,2-Dichloropropane	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
2-Butanone (MEK)	µg/L	--	< 10 U	**12**	< 10 U	**6.2 J**	**6.5 J**	< 10 U	< 10 U	< 10 U
2-Chlorotoluene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Chlorotoluene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-Pentanone	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Acetone	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	**2.6 J**	< 10 UJ	**2.3 J**
Benzene	µg/L	--	**0.13**	**0.22 J**	**0.20 J**	< 0.50 UJ	**0.20 J**	< 1.0 U	< 1.0 U	< 1.0 U
Bromobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromochloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Carbon Disulfide	µg/L	--	**1.6**	**3.7**	**3.8**	**1.1**	**1.1**	< 1.0 U	**0.36 J**	**0.39 J**
Carbon Tetrachloride	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
CFC-11	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
CFC-12	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Chlorobenzene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U

Table 6
Comprehensive Groundwater Analytical Data (2006-2015)
Phoenix Military Reservation
Jacksonville, Maryland

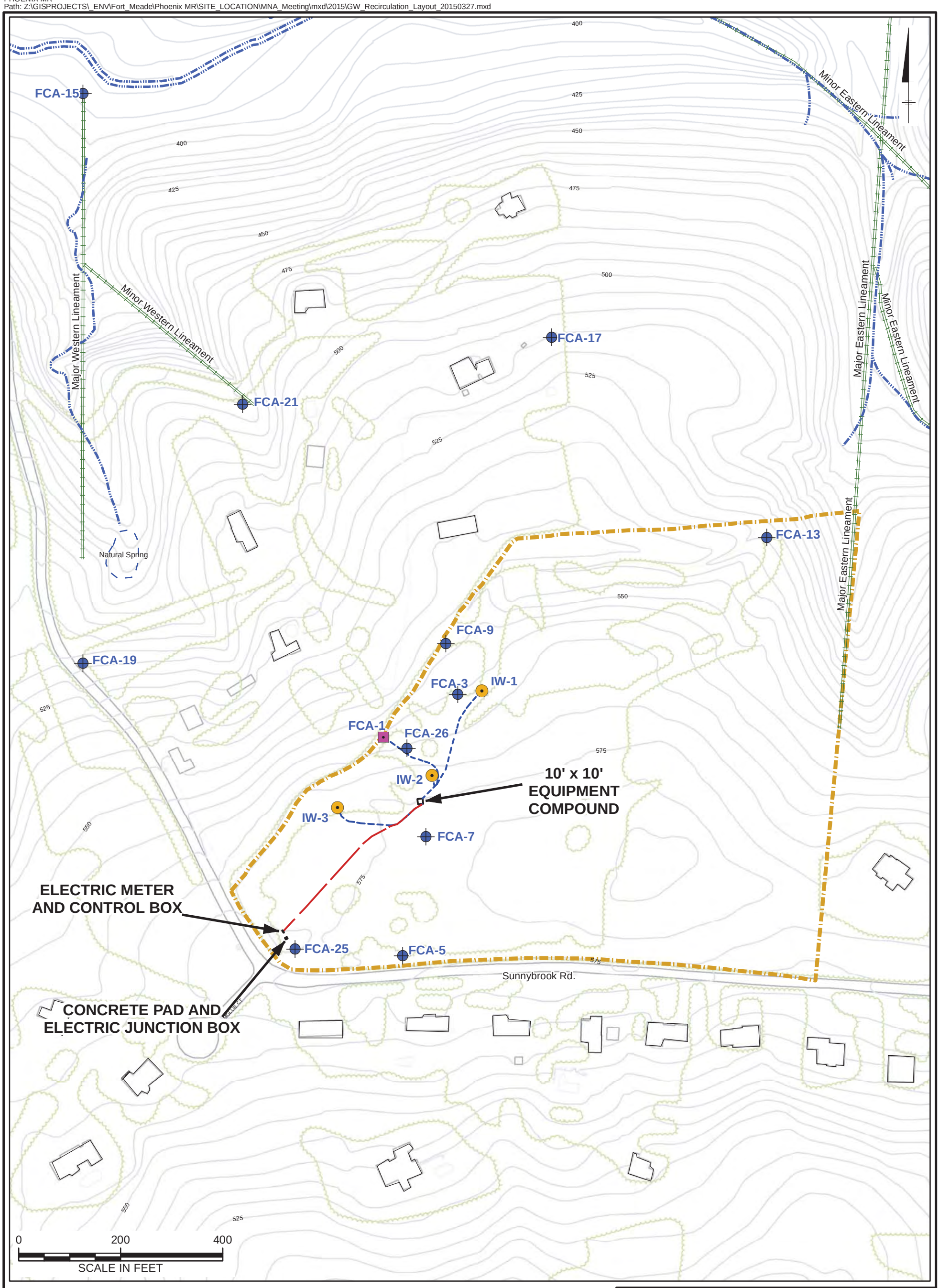
		Sample Location:	FCA-26	FCA-26	FCA-26	FCA-26	FCA-26	FCA-26	FCA-26	FCA-26
		Sample Date:	10/15/2014	2/25/2015	2/25/2015	5/28/2015	5/28/2015	9/1/2015	11/25/2015	11/25/2015
		Sample Identification:	PMR1FCA-26(101514)	PMRI-DUP-01(022515)	PMRI-FCA-26(022515)	PMR1-DUP-01(052815)	PMR1-FCA-26(052815)	PMR1-FCA-26(090115)	PMR1-DUP-01 (112515)	PMR1-FCA-26 (112515)
Chemical	**Units**	**MCL**								
Chlorodibromomethane	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroform	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	µg/L	--	**0.18**	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
cis-1,2-Dichloroethene	µg/L	70	**73**	**170**	**180**	**120**	**130**	**120**	**110**	**110**
cis-1,3-Dichloropropene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Cyclohexane	µg/L	--	--	--	--	--	--	--	--	--
Cymene (p-Isopropyltoluene)	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Dibromomethane	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichloromethane	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Ethane	µg/L	--	--	--	--	--	--	--	--	--
Ethene	µg/L	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Hexachloro-1,3-butadiene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Isopropylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
m,p-Xylene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Methane	µg/L	--	--	--	--	--	--	--	--	--
Methyl Acetate	µg/L	--	--	--	--	--	--	--	--	--
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Methylcyclohexane	µg/L	--	--	--	--	--	--	--	--	--
Methyl-tert-butylether	µg/L	--	**< 0.50**	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
m-Xylene	µg/L	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	--	< 0.50 U	**1.2**	**1.3**	**0.40 J**	**0.41 J**	< 1.0 U	**0.30 J**	**0.29 J**
N-Butylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
N-Propylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
sec-Butylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene (Monomer)	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
tert-Butylbenzene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Tetrachloroethene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Total Xylenes	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	µg/L	--	**0.65**	**0.88**	**0.79**	**0.64**	**0.65**	**0.70 J**	**0.55 J**	**0.47 J**
trans-1,3-Dichloropropene	µg/L	--	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichloroethene	µg/L	5	**110**	**71**	**78**	**94**	**87**	**95**	**61**	**62**
Vinyl chloride	µg/L	2	< 0.50 U	**0.23 J**	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
Total VOC TICs	µg/L	--	--	--	--	--	--	--	--	--
Dissolved Gasses										
Carbon Dioxide	µg/L	--	--	--	--	--	--	--	--	--
Carbon Monoxide	µg/L	--	--	--	--	--	--	--	--	--
Methane	µg/L	--	--	--	--	--	--	--	--	--
Biogeochemical Parameters										
Nitrogen	µg/L	--	--	--	--	--	--	--	--	--
Alkalinity	µg/L	--	--	--	--	--	--	--	--	--
Chloride	µg/L	--	--	--	--	--	--	--	--	--
Nitrate/Nitrite	µg/L	--	--	--	--	--	--	--	--	--
Nitrate-N	µg/L	--	--	--	--	< 20 U	< 20 U	--	--	--
Nitrite	µg/L	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	--	--	--	--	**19000**	**19000**	--	--	--
Total Dissolved Solids	µg/L	--	--	--	--	--	--	--	--	--
Total Hardness	µg/L	--	--	--	--	--	--	--	--	--
Total Organic Carbon	µg/L	--	--	--	--	**2300**	**2300**	--	--	--

***Notes are provided on the last page of Table 6.**

Notes:
1. Site Cleanup Levels (SCLs) are presented for the constituents of concern as defined in the Record of Decision (Army 2013). Values exceeding the laboratory reporting limit are presented in bold font. Values exceeding the SCL are presented in bold font and highlighted in yellow.
--- - Not Applicable
µg/L - microgram per liter
B - Compound was found in the blank and in the sample.
J - Indicates an estimated result.
U - Indicates the analyte was analyzed but not detected above the

FIGURES

CITY: MPLS DIV/GROUP: IM DB: MG LD: KS
PHOENIX MR
Path: Z:\GISPROJECTS_ENV\Fort_Meade\Phoenix MR\SITE_LOCATION\MNA_Meeting\mxd\2015\GW_Recirculation_Layout_20150327.mxd



Legend

- Deep Monitoring Well Location
- Extraction Well
- Recirculation Well
- Lineament
- Stream
- Electrical Feed
- Water Conveyance
- Natural Spring
- House
- Approximate Site Boundary

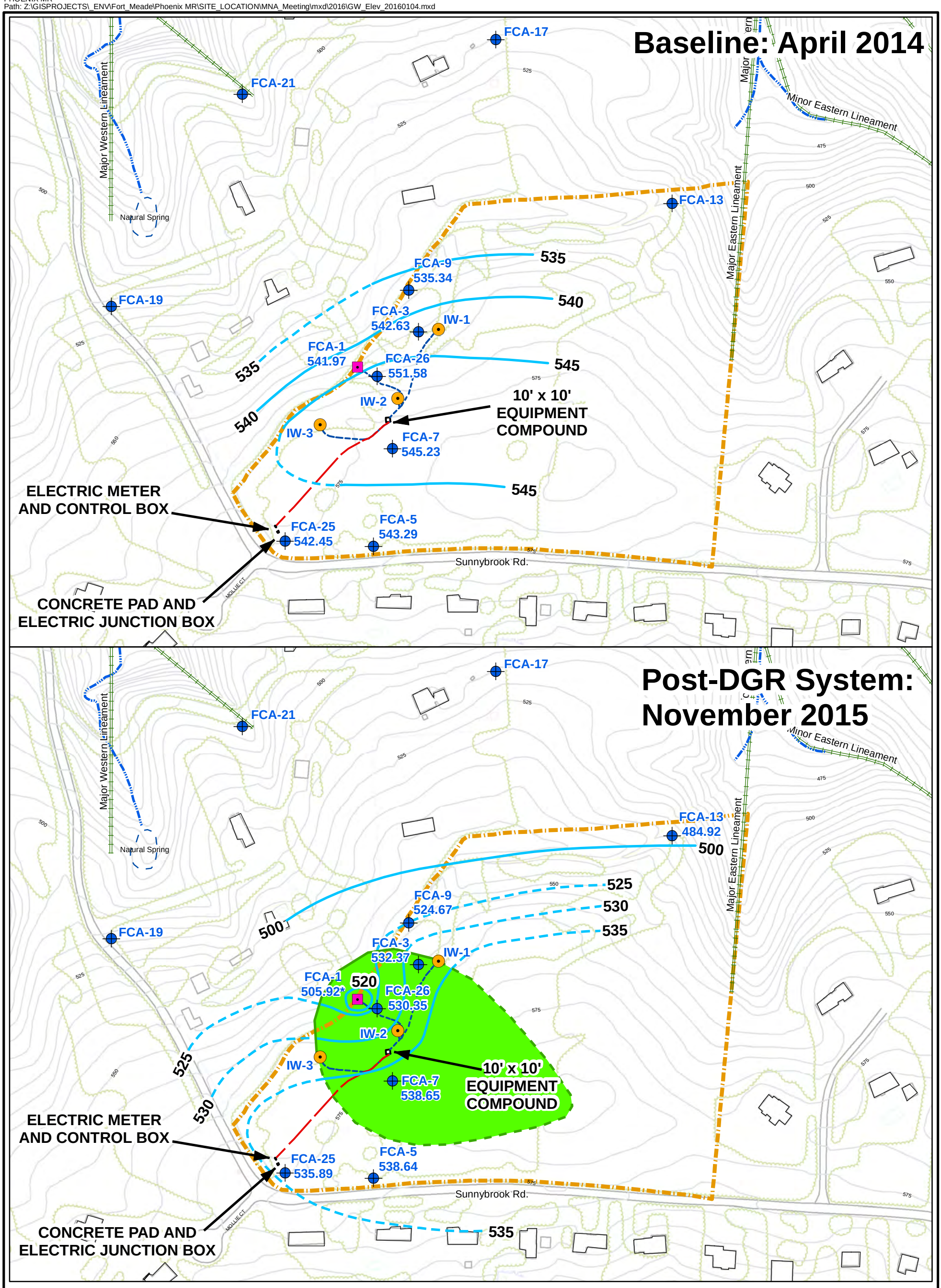
PHOENIX MILITARY RESERVATION
JACKSONVILLE, MARYLAND

DIRECTED GROUNDWATER RECIRCULATION LAYOUT

PIKA ARCADIS

FIGURE
1

CITY: MPLS DIV/GROUP: IM DB: MG LD: KS
PHOENIX MR
Path: Z:\GISPROJECTS_ENV\Fort_Meade\Phoenix MR\SITE_LOCATION\MNA_Meeting\mxd\2016\GW_Elev_20160104.mxd



Legend

- Deep Monitoring Well Location
- Extraction Well
- Recirculation Well
- Groundwater Elevation Contour (Dashed where inferred) — 530 ft msl
- 505.92* Water Level During Pumping Not Contoured
- Lineament
- Stream
- Electrical Feed
- Water Conveyance
- Natural Spring
- House
- Approximate Site Boundary
- Inferred Extent of Capture (Dashed where Inferred)

Note:
msl = mean sea level

0 200 400
SCALE IN FEET

PHOENIX MILITARY RESERVATION
JACKSONVILLE, MARYLAND

COMPARISON OF GROUNDWATER ELEVATION CONTOURS

PIKA ARCADIS a joint venture

FIGURE
2

ATTACHMENT 1

Groundwater Sample Logs

ATTACHMENT 2

Laboratory Reports

(Provided on CD)

ATTACHMENT 3

Data Validation Report

(Provided on CD)

ATTACHMENT 4

System O&M Inspection Field Notes

ATTACHMENT 5

Photo Log

Project Photographs

Phoenix Military Reservation
Jacksonville, Maryland

Photo: 1

Date:
11/25/2015

Description:
Chain link gate

Location: Site entrance off Sunnybrook Road, facing northwest.

Photo: 2

Date:
11/25/2015

Description:
Direct Groundwater Recirculation system enclosure with signage posted.

Location:
Facing south.

Photo: 3

Date:
11/25/2015

Description:
Inside the Direct Groundwater Recirculation system.

Location:
Facing south

Project Photographs

Phoenix Military Reservation
Jacksonville, Maryland

Photo: 4

Date:
11/25/2015

Description:
Photo looking towards the Site perimeter fence

Location:
Adjacent to IW-1, facing west.

Photo: 5

Date:
11/25/2015

Description:
General photo taken of the open grass area located centrally at the Site.

Location:
Adjacent to the Directed Groundwater Recirculation system, facing northeast.

Photo: 6

Date:
11/25/2015

Description:
Photo of FCA-07/FCA-08

Location:
Adjacent to the Directed Groundwater Recirculation System, facing south.

Project Photographs

Phoenix Military Reservation
Jacksonville, Maryland

Photo: 7

Date:
11/25/2015

Description:
Photo of the access road to IW-1.

Location:
Approximately 50 feet southwest of IW-1, facing northeast.

Photo: 8

Date:
11/25/2015

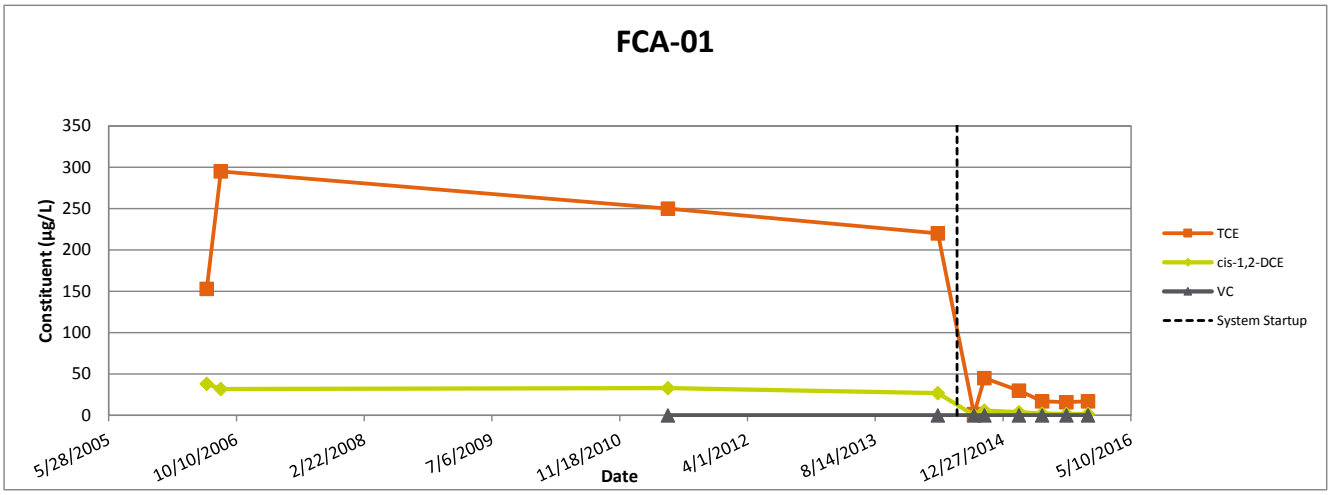
Description:
Photo of the open field area towards the northern portion of the Site.

Location:
Approximately 125 ft east of monitoring well FCA-3, facing north.

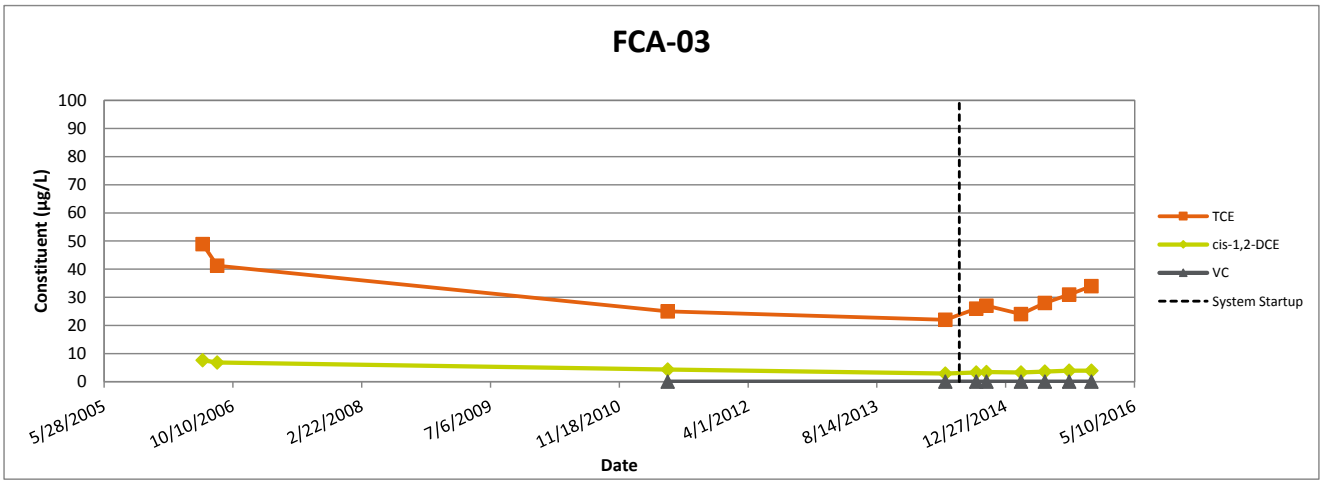
ATTACHMENT 6

TCE Trend Plots

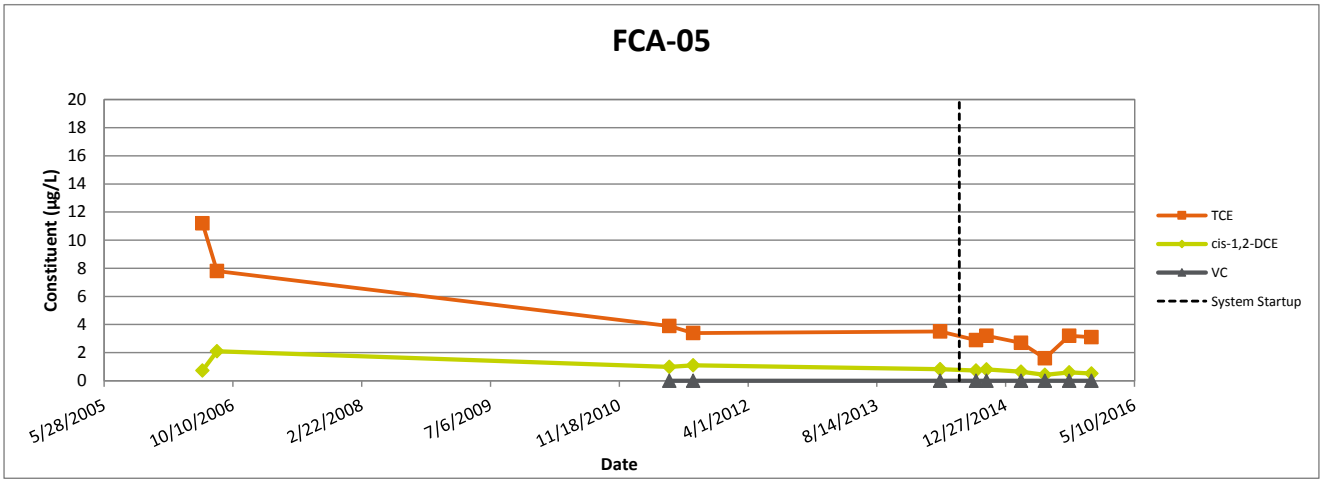
Attachment 6
TCE Trend Plots
Phoenix Military Reservation
Jacksonville, Maryland



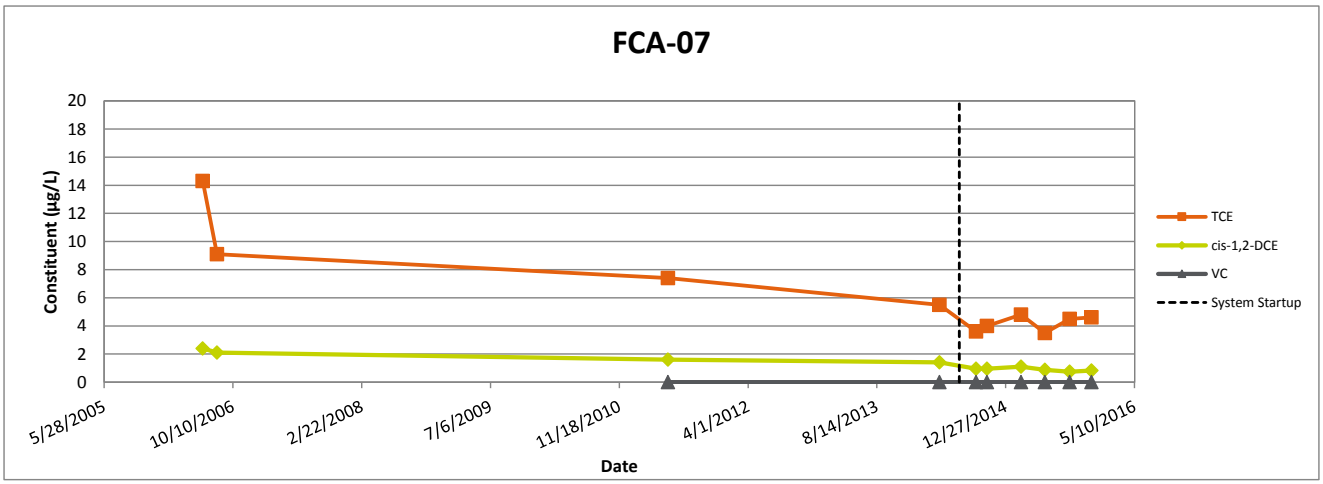
Analyte	SCL	6/16/2006	8/10/2006	5/26/2011	4/16/2014	9/4/2014	10/15/2014	2/27/2015	5/29/2015	9/1/2015	11/25/2015
TCE	5	**153**	**295**	**250**	**220**	**1.6**	**45**	**30**	**17**	**16**	**17**
cis-1,2-DCE	70	**38.2**	**31.9**	**33**	**27**	**0.18 J**	**5.6**	**3.8**	**2.1**	**1.6**	**1.6**
VC	2	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND



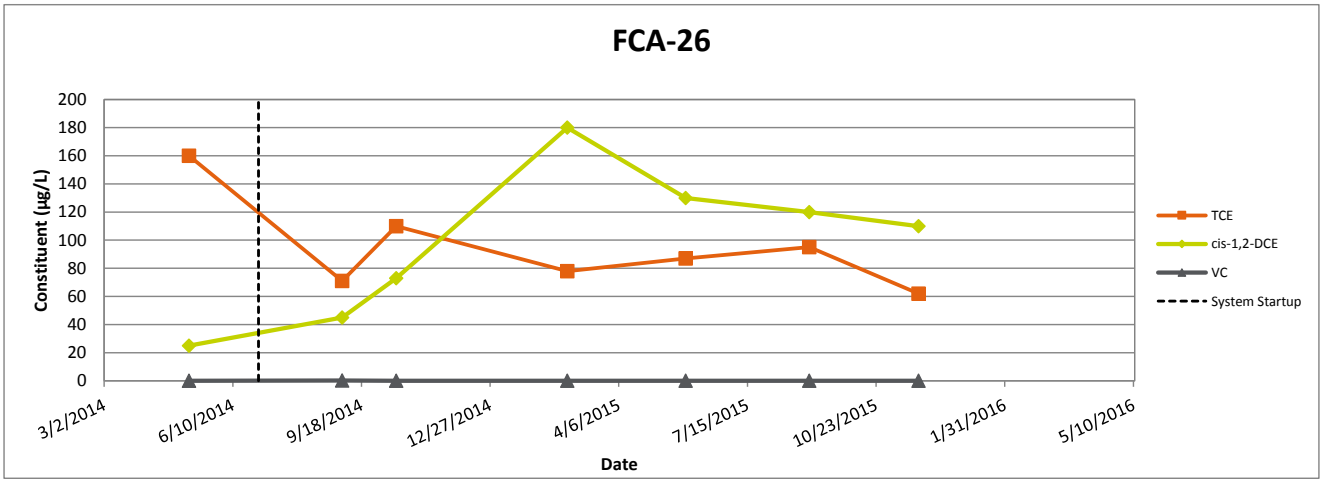
Analyte	SCL	6/15/2006	8/10/2006	5/25/2011	5/7/2014	9/4/2014	10/14/2014	2/25/2015	5/28/2015	8/31/2015	11/25/2015
TCE	5	**48.9**	**41.2**	**25**	**22**	**26**	**27**	**24**	**28**	**31**	**34**
cis-1,2-DCE	70	**7.6**	**6.8**	**4.3 J**	**2.9**	**3.3**	**3.4**	**3.3**	**3.6**	**3.9**	**3.9**
VC	2	--	--	ND	ND	ND	ND	ND	ND	ND	ND



Analyte	SCL	6/14/2006	8/9/2006	5/31/2011	9/1/2011	4/17/2014	9/3/2014	10/14/2014	2/25/2015	5/28/2015	8/31/2015	11/25/2015
TCE	5	**11.2**	**7.8**	**3.9 J**	**3.4 J**	**3.5**	**2.9**	**3.2**	**2.7**	**1.6**	**3.2**	**3.1**
cis-1,2-DCE	70	**0.73 J**	**2.1**	**0.99 J**	**1.1 J**	**0.83**	**0.72**	**0.81**	**0.64**	**0.42 J**	**0.60 J**	**0.52 J**
VC	2	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND



Analyte	SCL	6/15/2006	8/9/2006	5/26/2011	4/14/2014	9/3/2014	10/15/2014	2/25/2015	5/28/2015	9/1/2015	11/25/2015
TCE	5	**14.3**	**9.1**	**7.4**	**5.5**	**3.6**	**4**	**4.8**	**3.5**	**4.5**	**4.6**
cis-1,2-DCE	70	**2.4**	**2.1**	**1.6 J**	**1.4**	**0.95**	**0.95**	**1.1**	**0.87**	**0.74 J**	**0.83 J**
VC	2	--	--	ND	ND	ND	ND	ND	ND	ND	ND



Analyte	SCL	5/7/2014	9/3/2014	10/15/2014	2/25/2015	5/28/2015	9/1/2015	11/25/2015
TCE	5	**160**	**71**	**110**	**78**	**87**	**95**	**110**
cis-1,2-DCE	70	**25**	**45**	**73**	**180**	**130**	**120**	**62**
VC	2	ND	**0.19 J**	ND	ND	ND	ND	ND

Notes:
Concentrations exceeding the applicable screening criterion are boldfaced and highlighted yellow.
Concentrations below the detection limit are represented graphically as zero.
All concentrations are presented in microgram per liter.
TCE - Trichlorethene
SCL - Site Cleanup Level

ATTACHMENT 7

Response to Comments

Comments for the
2015 Annual Operation and Maintenance Report (January 1 Through December 31, 2015) for the Phoenix Military Reservation
Jacksonville, Maryland

Response Code: A = Agree with comment D = Disagree with comment C = Comment requires clarification

Comment Number	Commenter	Page(s)	Section	Line(s)	Comment	Response Code	Response
1	MDE				The Federal Facilities Installation Restoration Program (FFIRP) is in support of the recommendation to abandon monitoring wells FCA-23 and FCA-24. These wells are on private property, are not currently part of the regular monitoring program (nor planned to be in the future), and the property owner has requested that they be removed. Please ensure that well abandonment is completed by a licensed Maryland driller, and is in accordance with Code of Maryland Regulation 26.04.04.34.	A	Comment noted. The monitoring well abandonment will be completed by a licensed Maryland driller and in accordance with all applicable Maryland regulations (e.g COMAR).
2	MDE				The document recommends that Hydrasleeve samplers be deployed for future monitoring events. The Hydrasleeve Standard Operating Procedure (Attachment 7) states that the time for a well to equilibrate after deployment of the Hydrasleeve and prior to sampling can be quite a broad range (from hours to months). What will this equilibration period be for the Phoenix Military Reservation monitoring wells?	A	Regarding the transition to no purge sampling methodology (e.g Hydrasleeves), the JV deleted all text associated with this request from the Recommendations section of the Phoenix Military Reservation (PMR) Annual O&M Report. The JV is in the process of preparing a Memorandum for the transition to no purge sampling at PMR and other Fort George G. Meade (FGGM) Installation Restoration Program (IRP) sites currently in the long-term monitoring phase. This Memorandum will be submitted under separate cover and will provide further clarification on the overall strategy and approach proposed by the JV for the transition to no purge sampling methodology to ensure that data quality objectives are maintained. The JV would also like to propose a stakeholders meeting/teleconference to discuss the proposed transition to no purge sampling methodology at FGGM and PMR once the Memorandum has been reviewed by the Maryland Department of the Environment (MDE) and United States Environmental Protection Agency (USEPA).
3	MDE				The FFIRP respectfully requests that for sampling events in 2016, Hydrasleeve and low-flow samples both be collected, to allow a point of comparison for the new sampling methodology. Once these data have been analyzed, the FFIRP will revisit the possibility of using the Hydrasleeve technology on its own.	A	See response to comment #2.

COMMENTS PROVIDED BY

Initials	Name	Department/ Organization	Email Address	Phone
EG	Elisabeth Green	Federal Facilities Installation Restoration Program	elisabeth.green@maryland.gov	410.537.3346