Pfizer Inc.
100 Route 206 North, MS LLA-401
Peapack, NJ 07977
Tel: 908-901-8630

September 1, 2017

Via e-mail and U.S. Postal Service

David N. Cuevas-Miranda, Ph.D.
Geologist/Marine Scientist
Senior RCRA Corrective Action Project Manager
US EPA-Region 2
Caribbean Environmental Protection Division
City View Plaza II, Suite 7000
Guaynabo, Puerto Rico 00968

RE: Pfizer Pharmaceuticals, LLC, Carolina Site
Progress Summary Report of Remedial Activities
65th Infantry Avenue, Km. 9.7
Carolina, Puerto Rico

Dear Mr. Cuevas:

On behalf of Pfizer Pharmaceuticals, LLC (PPLLC), please find attached a Progress Summary Report prepared by Golder Associates Inc. that presents a summary of remedial activities and data obtained (i.e. well construction logs, groundwater chemistry results etc.) for the voluntary remedial activities conducted since the previous (Oct. 2016) progress report.

Should you have any questions about the report, please don't hesitate to contact me at 908-901-8630.

Sincerely,

William G. Gierke, P.G., Senior Manager
Pfizer Inc.

cc. L. Vélez, EQB

TECHNICAL MEMORANDUM

Date: August 30, 2017 **Project No.:** 103-82746.B

To: William Gierke – Pfizer Inc.

From: Kirk A. Blevins, CHMM

cc: Robert J. Illes, Jeff Paul

RE: **PROGRESS REPORT FOR REMEDIAL ACTIVITIES AT THE FORMER PFIZER PHARMACEUTICAL FACILITY IN CAROLINA, PUERTO RICO**

Golder Associates Inc. has prepared this Technical Memorandum to summarize the remedial activities at the former Wyeth facility in Carolina, Puerto Rico (the site). A Remedial Action Plan was submitted to the US Environmental Protection Agency (EPA) in July 2014 and implementation began immediately thereafter. The following summarizes the actions completed from November 2016 through June 2017.

WELL INSTALLATIONS

- November 2016 - Installed seven injection wells (INJ-31 through INJ-37) and two monitoring/test wells (MW-28S and MW-30D) throughout the treatment/monitoring zone.
- April 2017 - Installed two injection wells (INJ-38 and INJ-39) and three monitoring/test wells (MW-26S, MW-29S, and MW-31S) throughout the treatment/monitoring zone.

Well installation logs, for both monitoring and injection wells, are presented in Attachment 1. Well completion and groundwater elevation summaries are presented in Table 1. Locations of the wells are presented on Figure 1. Updated lithologic cross section diagrams are presented on Figures 2, 2A, and 2B.

AMENDMENT INJECTIONS

- February 2017 – Injected amendment (approximately 52 kilograms (kg) to 89 kg of EOS Pro per 1,000 gallons of water, per injection well) into select overburden injection wells (INJ-27 through INJ-30, INJ-36, and INJ-37). Injected amendment (approximately 30 kg to 95 kg of EOS 100 per 1,000 gallons of water, per injection well) into select rock injection wells (INJ-1 through INJ-3, INJ-15, INJ-31 through INJ-35). The variations of the amount of amendment injected was based on contaminant concentrations at that location and the ability of the subsurface to accept the amendment.

A summary of the volume of amendment injected in site wells is presented in Table 2.

SOIL BORINGS AND SAMPLING

- November 2016 – Installed four soil borings (SB-65 through SB-68), screened soil in the field for volatile organic compounds (VOCs), and collected five soil samples.
- April 2017 – Installed four soil borings (SB-69 through SB-72), screened soil, and collected two soil samples.

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Results from the November 2016 and April 2017 sampling events are summarized in Tables 3 and 4 (attached). Copies of the laboratory analytical reports for these two events are presented in Attachment 2.

Soil samples were collected from points representing elevated soil headspace field screening results and submitted for analysis of chlorinated VOCs. Analytical results indicated that chlorinated VOCs were reported in each sample, with the exception of SB-68-14-16, at concentrations above laboratory method detection limits; however, the concentrations were not above the EPA November 2013 regional screening levels (RSLs) for industrial soil. The analytical results were also below the associated carcinogenic screening levels for an inhalation exposure pathway. To date, no exceedance above EPA RSLs for industrial soil has been detected based on the extensive distribution of soil test borings throughout the area.

REMEDIAL PERFORMANCE AND GROUNDWATER MONITORING

Performance groundwater monitoring from November 2016 through June 2017 is detailed below.

- November 2016 – Continued performance monitoring.
- April 2017 – Groundwater grab sample (GW-68) from a temporary monitoring well.
- June 2017 – Performance monitoring after sixth injection event.
- July 2017 – Continued performance monitoring.

Results from these sampling events are summarized in Figure 3 and in Tables 5, 6, and 7 (attached). Copies of the laboratory analytical reports for these sampling events are presented in Attachment 2.

Performance monitoring continues to show good progress, with continued reduction on total chlorinated VOCs. Groundwater analyzed from the additional wells within the east-central portion of the treatment zone (MW-26S, MW-29S, INJ-36, INJ-37, and INJ-39) reported chlorinated VOCs (trichloroethene [TCE] concentrations as high as 1,180 micrograms per liter) in this area and thus this area was included in the February 2017 injection event. The subsequent June and July 2017 monitoring events indicated a significant reduction in TCE in this area (see results for injection well INJ-36).

As part of the June and July 2017 sampling events, groundwater from select wells (MW-07S, MW-16S, MW-17S, MW-21S, MW-26S, MW-29S, MW-31S, INJ-5, INJ-34, and INJ-39) were analyzed for the Dehalococcoides (DHC) bacteria and the DHC functional genes: tceA reductase gene (tceA), bvcA reductase gene (bvcA), and vcrA reductase gene (vcrA). Analytical results reported that DHC, tceA, and vcrA counts (cells per milliliter) were detected in higher concentrations in most areas where amendment has been injected, indicating microbial degradation is occurring and the amendment injection program is effective. Furthermore, the concentrations of vcrA (>10,000 cells/milliliter) at the northern property line are consistent with the decreasing vinyl chloride concentrations that are observed, indicating complete reduction of TCE is occurring.

NEXT ACTIONS TENTATIVELY PLANNED

- July 2017 – Conduct groundwater sampling in select wells to monitor performance of the injection events and provide additional information for design of the next injection/treatment event.
- August/September 2017 – Conduct an additional injection event (EOS 100 and/or EOS Pro) in select areas of the site, based on the July 2017 sampling results.
- December 2017 – Conduct a groundwater sampling event of selected site wells to monitor the performance of the remedial strategy.

LIST OF TABLES

Table 1 Monitoring Well Completion and Groundwater Elevation Summary
Table 2 Amendment Injection Volumes
Table 3 Soil Headspace Screening Summary
Table 4 Soil Analytical Summary
Table 5 Groundwater Analytical Summary
Table 6 Groundwater Chemistry Summary
Table 7 Groundwater Analytical Summary (Microbial Data)

LIST OF FIGURES

Figure 1 Well Locations
Figure 2 Cross Section Locations
Figure 2A Lithological Cross Section A - A'
Figure 2B Lithological Cross Section B – B'
Figure 2C Lithological Cross Section C – C'
Figure 3 Groundwater Analytical Summary

LIST OF ATTACHMENTS

Attachment 1 Well Installation Logs
Attachment 2 Laboratory Analytical Reports

FN: G:\Projects\103\103-82\103-82746\Progress Reports\July 2017\July 2017 PR Final.docx

TABLES

TABLE 1
MONITORING WELL COMPLETION AND GROUNDWATER ELEVATION SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Well Designation	MW-01S			MW-02S			MW-03S			MW-04S			MW-05S			MW-06S			MW-07S		
Diameter		2	in		2	in		2	in		2	in		2	in		2	in		2	in
Well Depth		68.4	ft		39.9	ft		39.9	ft		22.5	ft		32.7	ft		40	ft		38	ft
Screen Interval		58.4 - 68.4	ft		29.9 - 39.9	ft		29 - 39	ft		12.5 - 22.5	ft		22.7 - 32.7	ft		30 - 40	ft		28 - 38	ft
TOC Elevation[1]		58.521	ft		51.776	ft		46.427	ft		33.921	ft		33.353	ft		40.471	ft		47.324	ft
Screen Elevation[1]		0.121 to -9.879	ft		21.876 to 11.876	ft		16.527 to 6.527	ft		21.421 to 11.421	ft		10.653 to 0.653	ft						
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
2/2/2011	37.54	20.98		31.99	19.79		33.13	13.30		29.31	4.61		31.94	1.41		33.66	6.81		NI	NI	
10/17/2011	39.49	19.03		32.65	19.13		33.74	12.69		30.37	3.55		32.01	1.34		33.82	6.65		31.94	15.38	
9/12/2012	38.11	20.41		31.79	19.99		33.22	13.21		30.07	3.85		31.96	1.39		33.89	6.58		31.18	16.14	
4/17/2013	NM	NM		30.94	20.84		31.98	14.45		NM	NM		NM	NM		NM	NM		30.49	16.83	
12/6/2013	NM	NM		33.82	17.96		34.56	11.87		NM	NM		32.95	0.40		34.85	5.62		33.17	14.15	
2/3/2015	NM	NM		32.03	19.75		33.20	13.23		NM	NM		31.90	1.45		33.78	6.69		31.36	15.96	
3/17/2015	NM	NM		31.28	20.50		NM	NM		NM	NM		NM	NM		NM	NM		30.66	16.66	
4/20/2015	NM	NM		30.18	21.60		NM	NM		NM	NM		NM	NM		NM	NM		29.77	17.55	
7/8/2015	NM	NM		29.81	21.97		31.07	15.36		28.30	5.62		30.40	2.95		32.22	8.25		29.30	18.02	
7/20/2016	36.89	21.63		31.44	20.34		32.52	13.91		30.82	3.10		32.07	1.28		33.30	7.17		30.72	16.60	
6/19/2017	NM	NM		31.55	20.23		NM	NM		NM	NM		NM	NM		NM	NM		30.87	16.45	

Well Designation	MW-08S			MW-09S			MW-10S			MW-11S			MW-12S			MW-13S			MW-14S		
Diameter		2	in		2	in		2	in		2	in		2	in		2	in		2	in
Well Depth		40	ft		21.4	ft		40	ft		40	ft		27.5	ft		40	ft		40	ft
Screen Interval		30 - 40	ft		11.4 - 21.4	ft		30 - 40	ft		30 - 40	ft		17.5 - 27.5	ft		30 - 40	ft		30 - 40	ft
TOC Elevation[1]		50.791	ft		41.902	ft		52.875	ft		52.901	ft		44.443	ft		56.045	ft		56.051	ft
Screen Elevation[1]		20.791 to 10.791	ft		30.502 to 20.502	ft		22.909 to 12.909	ft		22.901 to 12.901	ft		26.943 to 16.943	ft		26.045 to 16.045	ft		26.108 to 16.108	ft
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
2/2/2011	NI	NI		NI	NI		NI	NI		NI	NI		NI	NI		NI	NI		NI	NI	
10/17/2011	34.41	16.38		37.20	4.70		NI	NI		NI	NI		NI	NI		NI	NI		NI	NI	
9/12/2012	33.93	16.86		36.91	4.99		NI	NI		NI	NI		NI	NI		NI	NI		NI	NI	
4/17/2013	NM	NM		NM	NM		NI	NI		NI	NI		NI	NI		NI	NI		NI	NI	
12/6/2013	35.27	15.52		37.93	3.97		35.84	17.04		34.57	18.33		34.51	9.93		35.12	20.93		39.20	16.85	
2/3/2015	33.88	16.91		37.02	4.88		34.34	18.54		32.62	20.28		33.05	11.39		33.75	22.30		37.94	18.11	
3/17/2015	NM	NM		NM	NM		NM	NM		NM	NM		NM	NM		32.73	23.32		NM	NM	
4/20/2015	NM	NM		NM	NM		NM	NM		NM	NM		NM	NM		33.05	23.00		NM	NM	
7/8/2015	31.69	19.10		35.47	6.43		32.13	20.75		30.28	22.62		30.70	13.74		31.34	24.71		34.81	21.24	
7/20/2016	33.23	17.56		36.70	5.20		33.70	19.18		32.02	20.88		32.26	12.18		33.02	23.03		35.95	20.10	
6/19/2017	NM	NM		NM	NM		NM	NM		NM	NM		NM	NM		33.05	23.00		NM	NM	

TABLE 1
MONITORING WELL COMPLETION AND GROUNDWATER ELEVATION SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Well Designation	MW-15S			MW-16S			MW-17S			MW-18S			MW-19S			MW-20S			MW-21S		
Diameter		2	in		2	in		2	in		2	in		2	in		2	in		2	in
Well Depth		32.5	ft		48	ft		50	ft		60	ft		50	ft		50	ft		47	ft
Screen Interval		22.5 - 32.5	ft		38 - 48	ft		40 - 50	ft		50 - 60	ft		40 - 50	ft		40 - 50	ft		37 - 47	ft
TOC Elevation[1]		49.90	ft		52.314	ft		55.684	ft		55.552	ft		55.632	ft		55.459	ft		49.447	ft
Screen Elevation[1]		27.40 to 17.40	ft		14.261 to 4.261	ft		15.684 to 5.684	ft		5.552 to -4.448	ft		15.632 to 5.632	ft		15.459 to 5.459	ft		12.734 to 2.734	ft
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
12/6/2013	33.45	16.45		NI	NI		NI	NI		NI	NI		NI	NI		NI	NI		NI	NI	
2/3/2015	31.31	18.59		33.04	19.27		33.74	21.94		33.72	21.83		NI	NI		NI	NI		NI	NI	
3/17/2015	NM	NM		32.08	20.23		32.65	23.03		32.76	22.79		NI	NI		NI	NI		NI	NI	
4/20/2015	NM	NM		30.86	21.45		32.08	23.60		32.75	22.80		NI	NI		NI	NI		NI	NI	
7/8/2015	29.22	20.68		30.73	21.58		31.32	24.36		31.32	24.23		31.17	24.46		31.10	24.36		29.48	19.97	
7/20/2016	30.73	19.17		32.43	19.88		31.03	24.65		32.43	23.12		32.82	22.81		32.77	22.69		30.98	18.47	
6/19/2017	NM	NM		30.31	22.00		33.68	22.00		33.35	22.20		NM	NM		NM	NM		31.00	18.45	

Well Designation	MW-22S			MW-23S			MW-24S			MW-26S			MW-28S			MW-29S			MW-31S		
Diameter		2	in		2	in		2	in		2			2			2			2	
Well Depth		30.25	ft		43	ft		40	ft		47.4			60			43.5			20	
Screen Interval		20 - 30	ft		33 - 43	ft		30 - 40	ft		37.4 - 47.4			50 - 60			33.5 - 43.5			43028	
TOC Elevation[1]		49.75	ft		54.110	ft		55.281	ft		56.183			55.510			55.794			45.695	
Screen Elevation[1]		29.75 to 19.75	ft		21.11 to 11.11	ft		25.28 to 15.28	ft												
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
7/20/2016	30.97	18.78		35.39	18.72		31.60	23.68													
6/20/2017	NM	NM		NM	NM		NM	NM		35.98	20.20		NM	NM		36.24	19.55		30.67	15.03	

TABLE 1
MONITORING WELL COMPLETION AND GROUNDWATER ELEVATION SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Well Designation	MW-02D			MW-03D			MW-07D			MW-30D		
Diameter		2	in		2	in		2	in		2	in
Well Depth		87.2	ft		69	ft		98	ft		76	ft
Screen Interval		77.2 - 87.2	ft		69 - 79	ft		88 - 98	ft		66 - 76	ft
TOC Elevation[1]		51.506	ft		46.553	ft		46.653	ft		49.66	ft
Screen Elevation[1]		-25.694 to -35.694	ft		-22.447 to -32.447	ft		-41.347 to -51.347	ft			ft
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP			
2/2/2011	33.35	18.16		33.56	12.99		NI	NI				
10/17/2011	33.90	17.61		34.10	12.45		33.58	13.07				
9/12/2012	33.05	18.46		33.61	12.94		32.77	13.88				
4/17/2013	31.89	19.62		32.31	14.24		31.64	15.01				
12/6/2013	34.69	16.82		34.93	11.62		34.45	12.20				
2/3/2015	33.16	18.35		33.56	12.99		32.88	13.77				
3/17/2015	32.35	19.16		NM	NM		31.90	14.75				
4/20/2015	30.96	20.55		NM	NM		31.05	15.60				
7/8/2015	30.87	20.64		31.41	15.14		30.59	16.06				
7/20/2016	32.49	19.02		32.88	13.67		32.24	14.41				
6/19/2017	32.56	18.95		NM	NM		NM	NM				

Well Designation	INJ-1			INJ-2			INJ-3			INJ-4			INJ-5			INJ-6			INJ-7		
Diameter		6	in		6	in		6	in		2	in		2	in		2	in		2	in
Well Depth		40	ft		40	ft		40	ft		50	ft		50	ft		50	ft		60	ft
Screen Interval		20 - 40	ft		19 - 40	ft		19 - 40	ft		40 - 50	ft		40 - 50	ft		40 - 50	ft		50 - 60	ft
TOC Elevation[1]		46.481	ft		48.513	ft		49.394	ft		52.453	ft		52.655	ft		53.260	ft		55.770	ft
Screen Elevation[1]		26.481 to 6.481	ft		29.340 to 8.340	ft		29.721 to 8.721	ft		12.453 to 2.453	ft		12.655 to 2.655	ft		13.260 to 3.260	ft		5.770 to -4.230	ft
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
2/3/2015	NM	NM		31.75	16.76		NM	NM		NM	NM		33.01	19.65		NM	NM		NM	NM	
7/8/2015	29.31	17.17		29.66	18.85		30.16	19.23		30.51	21.94		30.70	21.96		30.72	22.54		31.31	24.46	
7/20/2016	30.27	16.21		30.64	17.87		31.01	18.38		32.52	19.93		32.48	20.18		31.46	21.80		32.77	23.00	

TABLE 1
MONITORING WELL COMPLETION AND GROUNDWATER ELEVATION SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Well Designation	INJ-8			INJ-9			INJ-10			INJ-11			INJ-12			INJ-13			INJ-14		
Diameter		2	in		2	in		2	in		2	in		2	in		2	in		2	in
Well Depth		50	ft		60	ft		50	ft		60	ft		50	ft		45	ft		47	ft
Screen Interval		40 - 50	ft		50 - 60	ft		40 - 50	ft		50 - 60	ft		40 - 50	ft		35 - 45	ft		37 - 47	ft
TOC Elevation[1]		55.811	ft		55.817	ft		55.781	ft		55.542	ft		55.695	ft		55.839	ft		55.711	ft
Screen Elevation[1]		15.811 to 5.811	ft		5.817 to -4.183	ft		15.781 to 5.781	ft		5.542 to -4.458	ft		15.695 to 5.695	ft		20.839 to 10.839	ft		18.711 to 8.711	ft
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
7/8/2015	31.30	24.51		31.40	24.42		31.37	24.41		33.72	21.82		32.95	22.75		31.34	24.50		31.36	24.35	
7/20/2016	32.97	22.84		32.72	23.10		31.96	23.82		35.44	20.10		34.88	20.82		33.19	22.65		33.18	22.53	

Well Designation	INJ-15			INJ-16			INJ-17			INJ-18			INJ-19			INJ-20			INJ-21		
Diameter		2	in		2	in		2	in		2	in		2	in		2	in		2	in
Well Depth		37	ft		36	ft		31	ft		30	ft		35.75	ft		47.25	ft		58	ft
Screen Interval		27 - 37	ft		26 - 36	ft		26 - 31	ft		25 - 30	ft		25.25 - 35.25	ft		37 - 47	ft		43 - 58	ft
TOC Elevation[1]		49.506	ft		51.58	ft		52.55	ft		52.62	ft		52.52	ft		52.64	ft		55.18	ft
Screen Elevation[1]		22.506 to 12.506	ft		25.58 to 15.58	ft		26.55 to 21.55	ft		26.62 to 21.62	ft		27.27 to 17.27	ft		15.64 to 5.64	ft		12.18 to -2.82	ft
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
7/8/2015	29.61	19.90		NI	NI		NI	NI		NI	NI		NI	NI		NI	NI		NI	NI	
7/20/2016	31.05	18.46		31.31	20.27		31.53	21.02		31.57	21.05		31.48	21.04		32.1	20.54		32.5	22.68	

TABLE 1
MONITORING WELL COMPLETION AND GROUNDWATER ELEVATION SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Well Designation	INJ-22			INJ-23			INJ-24			INJ-25			INJ-26			INJ-27			INJ-28		
Diameter		2	in		2	in		2	in		2	in		2	in		2	in		2	in
Well Depth		53.5	ft		49.5	ft		51.25	ft		54	ft		36.3	ft		43	ft		53	ft
Screen Interval		43.5 - 53.5	ft		42.5 - 49.5	ft		41 - 51	ft		44 - 54	ft		19.5 - 36.3	ft		33 - 43	ft		33 - 53	ft
TOC Elevation[1]		55.080	ft		55.01	ft		54.98	ft		56.04	ft		52.54	ft		53.78	ft		53.93	ft
Screen Elevation[1]		11.58 to 1.58	ft		12.51 to 5.51	ft		13.98 to 3.98	ft		12.15 to 2.15	ft		33.04 to 16.24	ft		20.78 to 10.78	ft		20.93 to 0.93	ft
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
7/20/2016	32.57	22.51		32.60	22.41		32.65	22.33		34.63	21.41		31.23	21.31		34.97	18.81		32.55	21.38	
6/19/2017	NM	NM		NM	NM		32.78	22.20		NM	NM		NM	NM		NM	NM		NM	NM	

Well Designation	INJ-29			INJ-30			INJ-33			INJ-34			INJ-35			INJ-36			INJ-37		
Diameter		2	in		2	in		6	in		6	in		6	in		2	in		2	in
Well Depth		36.5	ft		42.5	ft		61.8	ft		63	ft		63	ft		40.8	ft		42.9	ft
Screen Interval		26.5 - 36.5	ft		32.5 - 42.5	ft		41.1 - 61.8*	ft		43 - 63*	ft		43 - 63*	ft		30.8 - 40.8	ft		32.9 - 42.9	ft
TOC Elevation[1]		53.786	ft		55.50	ft		51.624	ft		51.942	ft		51.882	ft		55.703	ft		55.46	ft
Screen Elevation[1]		27.286 to 17.286	ft		23.0 to 13.0	ft		NA	ft		NA	ft		NA	ft			ft			ft
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
7/20/2016	32.54	21.25		33.86	21.64																
6/20/2017																35.60	20.10				

TABLE 1
MONITORING WELL COMPLETION AND GROUNDWATER ELEVATION SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Well Designation	INJ-38			INJ-39			INJ-31			INJ-31		
Diameter		2	in		2	in		6	in		6	in
Well Depth		47.1	ft		46.3	ft		61	ft		78	ft
Screen Interval		37.1 - 47.1	ft		36.3 - 46.3	ft		41 - 61*	ft		58 - 78*	ft
TOC Elevation[1]		55.027	ft		55.499	ft		NM	ft		NM	ft
Screen Elevation[1]			ft			ft		NA	ft		NA	ft
DATE	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**						
6/19/2017	32.93	22.10		35.36	20.14							

Notes:

[1] - Elevations referenced to US Geological Survey Benchmark with mean sea level datum as determined by Javier Bidot Associates, PSC (July 2015).

in - inch
ft - feet
TOC Elevation - top of casing elevation
ELEV - elevation (feet)

NI - not installed
DTW - depth to water (feet below top of casing)
FP - free product (feet)
NM - not measured

NA - Not Applicable
* - Open borehole without well screen

TABLE 2
AMENDMENT INJECTION VOLUMES

Former Wyeth, Carolina Facility, Puerto Rico

Injection Well ID	Screened Interval (feet bgs)	Injection Dates	Approximate Mass Sodium Lactate Per 1,000 Gallons of Water (kg)	Approximate Mass EOS Pro Per 1,000 Gallons of Water (kg)	Approximate Mass EOS 100 Per 1,000 Gallons of Water (kg)	Approximate Mass Sodium Lactate Injected (kg)	Approximate Mass EOS Pro Injected (kg)	Approximate Mass EOS 100 Injected (kg)	Injection Water Volume[A] (gal)	Flush Water Volume[A] (gal)	Total Injection Volume (gal)
INJ-1	20 - 40	February 2015	20	0	0	20.9	0.0	0.0	1,046	99	1,145
		July 2015	20	11	0	21.0	11.6	0.0	1,052	48	1,100
		December 2015	0	36.7	0	0.0	73.9	0.0	2,014	59	2,073
		January 2016	0	36.7	0	0.0	77.2	0.0	2,104	148	2,252
		February 2017	0	0	94.35	0.0	0.0	209.4	2,219	100	2,319
		Total				**42.0**	**162.7**	**209.4**	**8,435**	**454**	**8,889**
INJ-2	19 - 40	February 2015	20	0	0	20.3	0.0	0.0	1,014	98	1,112
		July 2015	20	11	0	20.9	11.5	0.0	1,046	47	1,093
		December 2015	0	36.7	0	0.0	77.3	0.0	2,107	51	2,158
		January 2016	0	36.7	0	0.0	70.4	0.0	1,918	227	2,145
		February 2017	0	0	94.35	0.0	0.0	210.5	2,231	100	2,331
		Total				**41.2**	**159.2**	**210.5**	**8,316**	**523**	**8,839**
INJ-3	19 - 40	February 2015	20	0	0	19.1	0.0	0.0	953	100	1,053
		July 2015	20	11	0	20.6	11.4	0.0	1,032	47	1,079
		December 2015	0	36.7	0	0.0	76.6	0.0	2,087	62	2,149
		January 2016	0	36.7	0	0.0	77.8	0.0	2,119	279	2,398
		February 2017	0	0	94.35	0.0	0.0	221.3	2,346	100	2,446
		Total				**39.7**	**165.7**	**221.3**	**8,537**	**588**	**9,125**
INJ-4	40 - 50	February 2015	20	0	0	2.0	0.0	0.0	100	0	100
		July 2015	0	36.7	0	0.0	5.8	0.0	158	10	168
		December 2015	0	36.7	0	0.0	37.9	0.0	1,033	65	1,098
		January 2016	0	36.7	0	0.0	3.8	0.0	104	13	117
		Total				**2.0**	**47.5**	**0.0**	**1,395**	**88**	**1,483**
INJ-5	40 - 50	February 2015	20	0	0	25.6	0.0	0.0	1,280	100	1,380
		September 2015	0	36.7	0	0.0	51.1	0.0	1,393	73	1,466
		January 2016	0	36.7	0	0.0	46.7	0.0	1,273	147	1,420
		Total				**25.6**	**97.8**	**0.0**	**3,946**	**320**	**4,266**
INJ-6	40 - 50	February 2015	20	0	0	28.0	0.0	0.0	1,401	100	1,501
		September 2015	0	36.7	0	0.0	54.7	0.0	1,491	64	1,555
		January 2016	0	36.7	0	0.0	48.0	0.0	1,309	124	1,433
		Total				**28.0**	**102.8**	**0.0**	**4,201**	**288**	**4,489**

TABLE 2
AMENDMENT INJECTION VOLUMES

Former Wyeth, Carolina Facility, Puerto Rico

Injection Well ID	Screened Interval (feet bgs)	Injection Dates	Approximate Mass Sodium Lactate Per 1,000 Gallons of Water (kg)	Approximate Mass EOS Pro Per 1,000 Gallons of Water (kg)	Approximate Mass EOS 100 Per 1,000 Gallons of Water (kg)	Approximate Mass Sodium Lactate Injected (kg)	Approximate Mass EOS Pro Injected (kg)	Approximate Mass EOS 100 Injected (kg)	Injection Water Volume[A] (gal)	Flush Water Volume[A] (gal)	Total Injection Volume (gal)
INJ-7	50 - 60	February 2015	20	0	0	20.4	0.0	0.0	1,019	103	1,122
		July 2015	20	11	0	19.0	10.5	0.0	950	56	1,006
		October 2015	0	36.7	0	0.0	37.7	0.0	1,027	48	1,075
		January 2016	0	36.7	0	0.0	36.7	0.0	1,000	50	1,050
		Total				**39.4**	**84.8**	**0.0**	**3,996**	**257**	**4,253**
INJ-8	40 - 50	February 2015	20	0	0	21.0	0.0	0.0	1,049	92	1,141
		July 2015	20	11	0	20.1	11.0	0.0	1,003	54	1,057
		October 2015	0	36.7	0	0.0	37.3	0.0	1,015	49	1,064
		January 2016	0	36.7	0	0.0	36.7	0.0	1,000	50	1,050
		Total				**41.0**	**85.0**	**0.0**	**4,067**	**245**	**4,312**
INJ-9	50 - 60	February 2015	20	0	0	20.3	0.0	0.0	1,017	104	1,121
		July 2015	20	11	0	21.1	11.6	0.0	1,056	50	1,106
		October 2015	0	36.7	0	0.0	43.4	0.0	1,182	69	1,251
		January 2016	0	36.7	0	0.0	36.7	0.0	1,000	50	1,050
		Total				**41.5**	**91.7**	**0.0**	**4,255**	**273**	**4,528**
INJ-10	40 - 50	February 2015	20	0	0	22.4	0.0	0.0	1,122	100	1,222
		July 2015	20	11	0	21.8	12.0	0.0	1,090	51	1,141
		October 2015	0	36.7	0	0.0	44.1	0.0	1,201	58	1,259
		January 2016	0	36.7	0	0.0	0.8	0.0	22	50	72
		Total				**44.2**	**56.9**	**0.0**	**3,435**	**259**	**3,694**
INJ-11	50 - 60	February 2015	20	0	0	20.5	0.0	0.0	1,024	100	1,124
		July 2015	20	11	0	9.9	5.4	0.0	494	50	544
		October 2015	0	36.7	0	0.0	17.1	0.0	467	26	493
		January 2016	0	36.7	0	0.0	4.2	0.0	115	50	165
		Total				**30.4**	**26.8**	**0.0**	**2,100**	**226**	**2,326**
INJ-12	40 - 50	February 2015	20	0	0	20.8	0.0	0.0	1,041	104	1,145
		July 2015	20	11	0	20.4	11.2	0.0	1,022	50	1,072
		October 2015	0	36.7	0	0.0	42.4	0.0	1,155	57	1,212
		January 2016	0	36.7	0	0.0	10.4	0.0	285	50	335
		Total				**41.3**	**64.1**	**0.0**	**3,503**	**261**	**3,764**
INJ-13	35 - 45	February 2015	20	0	0	20.9	0.0	0.0	1,044	100	1,144
		October 2015	0	36.7	0	0.0	37.6	0.0	1,024	53	1,077
		January 2016	0	36.7	0	0.0	36.7	0.0	1,000	50	1,050
		Total				**20.9**	**74.3**	**0.0**	**3,068**	**203**	**3,271**

TABLE 2
AMENDMENT INJECTION VOLUMES

Former Wyeth, Carolina Facility, Puerto Rico

Injection Well ID	Screened Interval (feet bgs)	Injection Dates	Approximate Mass Sodium Lactate Per 1,000 Gallons of Water (kg)	Approximate Mass EOS Pro Per 1,000 Gallons of Water (kg)	Approximate Mass EOS 100 Per 1,000 Gallons of Water (kg)	Approximate Mass Sodium Lactate Injected (kg)	Approximate Mass EOS Pro Injected (kg)	Approximate Mass EOS 100 Injected (kg)	Injection Water Volume[A] (gal)	Flush Water Volume[A] (gal)	Total Injection Volume (gal)
INJ-14	37 - 47	February 2015	20	0	0	20.2	0.0	0.0	1,008	100	1,108
		October 2015	0	36.7	0	0.0	36.4	0.0	991	54	1,045
		January 2016	0	36.7	0	0.0	36.7	0.0	1,000	50	1,050
		Total				**20.2**	**73.1**	**0.0**	**2,999**	**204**	**3,203**
INJ-15	27 - 37	July 2015	20	11	0	20.7	11.4	0.0	1,034	42	1,076
		January 2016	0	36.7	0	0.0	36.7	0.0	1,000	155	1,155
		February 2017	0	0	94.35	0.0	0.0	178.8	1,895	100	1,995
		Total				**20.7**	**48.1**	**178.8**	**3,929**	**297**	**4,226**
INJ-16	26 - 36	January 2016	0	36.7	0	0.0	37.7	0.0	1,028	274	1,302
		Total				**0.0**	**37.7**	**0.0**	**1,028**	**274**	**1,302**
INJ-17	26 - 31	January 2016	0	36.7	0	0.0	40.8	0.0	1,112	205	1,317
		Total				**0.0**	**40.8**	**0.0**	**1,112**	**205**	**1,317**
INJ-18	25 - 30	January 2016	0	36.7	0	0.0	19.4	0.0	529	123	652
		Total				**0.0**	**19.4**	**0.0**	**529**	**123**	**652**
INJ-19	25 - 35	January 2016	0	36.7	0	0.0	45.4	0.0	1,238	195	1,433
		Total				**0.0**	**45.4**	**0.0**	**1,238**	**195**	**1,433**
INJ-20	37 - 47	January 2016	0	36.7	0	0.0	49.3	0.0	1,342	100	1,442
		Total				**0.0**	**49.3**	**0.0**	**1,342**	**100**	**1,442**
INJ-21	43 - 58	January 2016	0	36.7	0	0.0	48.3	0.0	1,315	26	1,341
		Total				**0.0**	**48.3**	**0.0**	**1,315**	**26**	**1,341**
INJ-22	43 - 53	January 2016	0	36.7	0	0.0	36.7	0.0	1,000	116	1,116
		Total				**0.0**	**36.7**	**0.0**	**1,000**	**116**	**1,116**
INJ-23	42 - 49	January 2016	0	36.7	0	0.0	36.7	0.0	1,000	55	1,055
		Total				**0.0**	**36.7**	**0.0**	**1,000**	**55**	**1,055**
INJ-24	41 - 51	January 2016	0	36.7	0	0.0	36.7	0.0	1,000	184	1,184
		Total				**0.0**	**36.7**	**0.0**	**1,000**	**184**	**1,184**
INJ-25	44 - 54	January 2016	0	36.7	0	0.0	42.2	0.0	1,151	50	1,201
		Total				**0.0**	**42.2**	**0.0**	**1,151**	**50**	**1,201**
INJ-26	19 - 36	January 2016	0	36.7	0	0.0	65.6	0.0	1,787	131	1,918
		Total				**0.0**	**65.6**	**0.0**	**1,787**	**131**	**1,918**
INJ-27	33 - 43	February 2017	0	52.5	0	0.0	52.5	0.0	1,000	100	1,100
		Total				**0.0**	**52.5**	**0.0**	**1,000**	**100**	**1,100**
INJ-28	33 - 53	February 2017	0	52.5	0	0.0	106.3	0.0	2,024	100	2,124
		Total				**0.0**	**106.3**	**0.0**	**2,024**	**100**	**2,124**
INJ-29	26.5 - 36.5	February 2017	0	52.5	0	0.0	52.5	0.0	1,000	100	1,100
		Total				**0.0**	**52.5**	**0.0**	**1,000**	**100**	**1,100**
INJ-30	32.5 - 42.5	February 2017	0	52.5	0	0.0	52.5	0.0	1,000	100	1,100
		Total				**0.0**	**52.5**	**0.0**	**1,000**	**100**	**1,100**

TABLE 2
AMENDMENT INJECTION VOLUMES

Former Wyeth, Carolina Facility, Puerto Rico

Injection Well ID	Screened Interval (feet bgs)	Injection Dates	Approximate Mass Sodium Lactate Per 1,000 Gallons of Water (kg)	Approximate Mass EOS Pro Per 1,000 Gallons of Water (kg)	Approximate Mass EOS 100 Per 1,000 Gallons of Water (kg)	Approximate Mass Sodium Lactate Injected (kg)	Approximate Mass EOS Pro Injected (kg)	Approximate Mass EOS 100 Injected (kg)	Injection Water Volume[A] (gal)	Flush Water Volume[A] (gal)	Total Injection Volume (gal)
INJ-31	40.4 - 61	February 2017	0	0	94.35	0.0	0.0	120.1	1,273	72	1,345
		Total				**0.0**	**0.0**	**120.1**	**1,273**	**72**	**1,345**
INJ-32	58.1 - 78	February 2017	0	0	29.60	0.0	0.0	59.2	2,000	0	2,000
		Total				**0.0**	**0.0**	**59.2**	**2,000**	**0**	**2,000**
INJ-33	41.1 - 61.75	February 2017	0	0	68.45	0.0	0.0	137.1	2,003	100	2,103
		Total				**0.0**	**0.0**	**137.1**	**2,003**	**100**	**2,103**
INJ-34	43.4 - 63	February 2017	0	0	68.45	0.0	0.0	113.5	1,658	100	1,758
		Total				**0.0**	**0.0**	**113.5**	**1,658**	**100**	**1,758**
INJ-35	43 - 63	February 2017	0	0	68.45	0.0	0.0	148.5	2,170	100	2,270
		Total				**0.0**	**0.0**	**148.5**	**2,170**	**100**	**2,270**
INJ-36	30.91 - 40.36	February 2017	0	89.25	0	0.0	70.8	0.0	793	100	893
		Total				**0.0**	**70.8**	**0.0**	**793**	**100**	**893**
INJ-37	32.7 - 42.4	February 2017	0	89.25	0	0.0	101.7	0.0	1,139	125	1,264
		Total				**0.0**	**101.7**	**0.0**	**1,139**	**125**	**1,264**

Notes:
[A]Values calculated from injection manifold flow meter readings
bgs - below ground surface
kg - kilogram
gal - gallons

TABLE 3
SOIL HEADSPACE SCREENING SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Boring ID	Sample Date	Sample Depth (ft bgs)	OVA-PID Reading (ppm)	Odor	Sample Collected	Soil Description
TB-16	6/12/2013	0-1	--	None		Concrete Slab
		1-2	141.0	None	TB-16	Brown medium sand, trace clay
		2-3	0.7	None		Grey clay
		3-4	0.4	None		Grey- brown clay
		4-5	0.3	None		
		5-6	0.5	None		
		6-7	0.7	None		Brown-red sandy clay
		7-8	0.7	None		Grey - brown clay
		8-9	1.2	None		
		9-10	0.7	None		
		10-11	8.0	None		Grey brown sand, trace clay
		11-12	1.3	None		Red- brown sand, trace clay
		12-13	82.8	None		
TB-17	6/12/2013	0-1	--	None		Concrete Slab
		1-2	0.5	None		Dark grey gravel and coarse sand
		2-3	--	--		No recovery in sampler. Refusal conditions at 7.5 feet.
		3-4	--	--		
		4-5	--	--		
		5-6	--	--		
		6-7	--	--		
		7-8	--	--		
TB-18	6/13/2013	0-1	--	--		Concrete Slab
		1-2	240.3	Slight		Medium to coarse brown and black sand
		2-3	277.2	Strong	TB-18	Brown and black clayey sand
		3-4	--	Strong		Red and brown clayey sand
		4-5	30.7	Strong		
		5-6	24.4	Strong		Brown and grey clayey sand
		6-7	16.5	Strong		
		7-8	--	--		Grey and black gravel, saturated
		8-9	--	--		
		10	--	--	TB-18 GW	
TB-19	6/13/20113	0-1	--	--		Concrete Slab
		1-2	7.3	Slight		Medium to coarse brown and black sand
		2-3	6.8	Slight		
		3-4	11.0	None		Medium to coarse brown and black sand, trace clay
TB-20	6/13/2013	0-1	--	--		Concrete Slab
		1-3	3.3	None		Medium to coarse brown and black sand, trace clay
		3-4	3.0	None		
		4-5	6.0	None		
		5-6	4.5	None		Brown-grey clayey sand, some gravel
		6-7	2.0	None		Brown-grey clayey sand, some gravel, saturated
TB-21	6/13/2013	0-1	--	--		Concrete Slab
		1-2	0.8	None		Coarse brown-grey sand
		2-3	2.3	None		
		3-5	2.9	None		Coarse brown-grey sand with volcanic gravel
		5-6	0.9	None		
		6-7	0.7	None		Red clayey sand
		7-8	0.7	None		Fine red sand trace clay
		8-9	4.2	None		Grey clay and fine red sand
		9-10	0.9	None		Fine red - grey sand
		10-11	0.7	None		
		11-12	2.4	None		
		13-14	0.5	None		

TABLE 3
SOIL HEADSPACE SCREENING SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Boring ID	Sample Date	Sample Depth (ft bgs)	OVA-PID Reading (ppm)	Odor	Sample Collected	Soil Description
TB-22	6/13/2013	0-1	--	--		Concrete Slab
		1-2	0.3	None		Coarse brown- grey sand
		2-3	0.4	None		Coarse brown- grey sand, trace clay, some gravel
		3-4	0.4	None		Fine brown- grey sand, trace clay
		4-5	1.0	Strong	TB-22	
		5-6	0.2	Slight		
		6-7	0.1	Slight		
TB-23	6/14/2013	0-0.5	--	--		Concrete Slab
		0.5-2.5	0.0	None		Brown grey clay, some sand
		2.5-4.5	0.1	None		Fine brown-red sand, trace clay
		4.5-6.5	0.0	None		
		6.5-8.5	0.0	None		
		8.5-10.5	0.0	None		
		10.5-12.5	0.0	None		
		12.5-13.5	0.0	None		
		13.5-14.5	0.0	None		
TB-24	6/14/2013	0-0.5	--	--		Concrete Slab
		0.5-1.5	0.2	None		Medium grey sand, trace clay, some gravel
		1.5-2.5	0.1	None		
		2.5-3.5	0.4	None		Medium to coarse grey-brown sand
		3.5-4.5	0.3	None		
		4.5-5.5	0.7	None		
		5.5-6.5	0.5	None		
TB-25	7/15/2013	1	1.1	--		Bottom of slab, top of soil headspace
		1-3	0.3	None		Brown coarse sand and gravel
		3-5	--	None		No recovery in sampler
TB-26	7/15/2013	0.5	0.9	--		Bottom of slab, top of soil headspace
		2-4	0.4	None		Red and grey medium sand, trace clay
		4-6	0.0	None		Black and brown clay, some medium sand
		6-8	0.0	None		Black clay
		8-10	0.0	None		Black clay, some gravel
TB-27	7/15/2013	0-2	--	--		Concrete Slab
		2-4	0.0	None		Red and brown medium sand, saturated
		4-6	0.0	None		
		6-8	0.2	None		
		8-10	0.2	None		
		10-12	0.1	None		
		12-14	0.3	None		
		14-16	0.2	None		
TB-28	7/15/2013	0.5	0.2	--		Bottom of slab, top of soil headspace
		1-3	0.0	None		Red and brown medium sand, trace clay
		3-5	0.0	None		Red and brown medium sand
		5-7	0.0	None		
		7-9	0.0	None		
		9-11	0.1	None		
		11-13	0.1	None		
		13-15	0.1	None		

TABLE 3
SOIL HEADSPACE SCREENING SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Boring ID	Sample Date	Sample Depth (ft bgs)	OVA-PID Reading (ppm)	Odor	Sample Collected	Soil Description
TB-29	7/16/2013	0.5	0.5	--		Bottom of slab, top of soil headspace
		0.5-2.5	0.0	None		Brown clayey sand, moist
		2.5-4.5	0.1	None		Brown clayey sand, saturated
		4.5-6.5	0.0	None		Brown clay
		6.5-8.5	--	--		No recovery
		8.5-10.5	--	--		
		10.5-12.5	0.1	None		Red and grey clay
		12.5-14.5	0.1	None		Red and grey clay, trace sand
		14.5-16.5	0.0	None		Red and grey sand, saturated
TB-30	7/16/2013	0-2	1.1	None		red and brown medium sand, saturated
		2-4	0.6	None		
		4-6	0.6	None		red and brown medium sand, moist
		6-8	0.5	None		red and brown medium sand, dry
		8-10	0.2	None		
		10-12	0.3	None		
		12-14	0.4	None		
		14-16	0.7	None		
TB-31	7/16/2013	0.5	0.0	None		Bottom of slab, top of soil headspace
		0.5-2.5	0.0	None		Clayey moist red and brown medium sand
		2.5-4.5	0.0	None		Red and brown sand, dry
		4.5-6.5	0.1	None		Clayey red and brown medium sand
		6.5-8.5	0.0	None		Red and brown medium sand, dry
		8.5-10.5	0.1	None		
		10.5-12.5	0.0	None		
		12.5-14.5	0.0	None		
TB-32	7/16/2013	0.5	0.0	--		Bottom of slab, top of soil headspace
		0.5-2.5	0.0	None		Red and brown medium sand
		2.5-4.5	0.1	None		Red and brown medium sand
		4.5-6.5	0.0	None		Red medium sand
		6.5-8.5	0.0	None		
		8.5-10.5	0.0	None		
		10.5-12.5	0.0	None		
		12.5-14.5	0.0	None		
TB-33	7/16/2013	1	0.0	--		Bottom of slab, top of soil headspace
		1-3	0.0	None		Medium red sand, grey clay, some gravel
		3-5	104.4	Slight	TB-33	Grey clayey sand, saturated
		5-7	79.2	Slight		Grey clayey sand, saturated
		7-9	22.4	Slight		Grey clayey sand
		9-11	1.3	None		Brown fine sand
		11-13	0.2	None		
		13-15	0.3	None		
TB-34	7/17/2013	1	0.3	--		Bottom of slab, top of soil headspace
		1-3	0.3	None		red and brown coarse sand, moist
		3-5	0.4	None		
		5-7	0.3	None		
		7-9	0.2	None		
		9-11	0.2	None		
		11-13	0.2	None		red and brown coarse sand, saturated
		13-15	0.0	None		

TABLE 3
SOIL HEADSPACE SCREENING SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Boring ID	Sample Date	Sample Depth (ft bgs)	OVA-PID Reading (ppm)	Odor	Sample Collected	Soil Description
TB-35	7/17/2013	0-2	0.2	None		Asphalt subgrade 8". Coarse red/brown clayey sand
		2-4	0.1	None		Coarse brown sand
		4-6	0.0	None		Coarse red and brown clayey sand
		6-8	0.0	None		Red and brown clay
		8-10	0.0	None		
		10-12	0.0	None		
		12-14	0.0	None		Red clayey sand overlain by green-grey clayey sand
		14-16	0.0	None		
TB-36	7/17/2013	0-2	0.0	None		Asphalt subgrade red coarse sand
		2-4	0.0	None		Red and brown coarse sand, trace clay
		4-6	0.0	None		Red clay
		6-8	0.0	None		Red and brown clay
		8-10	0.0	None		
		10-12	0.0	None		
		12-14	0.0	None		Red and brown clayey sand
		14-16	0.0	None		
TB-37	7/17/2013	1	0.0	None		Bottom of asphalt top of soil
		1-3	1.1	None		Red and brown coarse sand. Bottom 6" gravel
		3-5	0.9	None		Red and brown coarse sand
		5-7	0.7	None		
		7-9	0.8	None		Red and brown coarse clayey sand
		9-11	0.4	None		
		11-13	0.3	None		
		13-15	0.3	None		
TB-38	7/17/2013	1-3	0.3	None		Grey clay, some coarse red sand
		3-5	0.2	None		
		5-7	0.1	None		Grey clay, moist
		7-9	0.4	None		Coarse red sand trace clay
		9-11	0.2	None		Coarse red sand
		11-13	0.3	None		
		13-15	0.2	None		
TB-39	7/17/2013	0-1	0.0	--		Bottom of slab, top of soil
		1-3	0.0	None		Red and grey clayey sand
		3-5	0.0	None		Red coarse sand, dry
		5-7	0.0	None		
		7-9	0.9	None		
		9-11	0.4	None		Red coarse sand, moist
		11-13	0.7	None		
		13-15	0.3	None		
TB-40	7/17/2013	0-2	1.3	None		Red and brown coarse sand, trace clay
		2-4	0.7	None		
		4-6	0.5	None		
		6-8	0.5	None		
		8-10	0.0	None		Coarse red sand, moist
		10-12	0.1	None		
		12-14	0.2	None		
		14-16	0.2	None		
TB-41	7/18/2013	20-22	83.2	Strong	TB-41	Coarse grey sand and gravel, moist
		25-27	51.4	Strong		Gravel and coarse sand, saturated
		30-32	33.7	Strong		
		35-37	2.1	None	TB-41-GW	Coarse red sand
		40-42	1.2	None		Water table

TABLE 3
SOIL HEADSPACE SCREENING SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Boring ID	Sample Date	Sample Depth (ft bgs)	OVA-PID Reading (ppm)	Odor	Sample Collected	Soil Description
TB-42	7/19/2013	0.5-2.5	0.0	None		Red and brown coarse sand
		2.5-4.5	0.2	None		Coarse brown sand
		4.5-6.5	0.1	None		
		6.5-8.5	0.6	None		
		8.5-10.5	0.5	None		
		10.5-12.5	0.5	None		Coarse sand and gravel
		12.5-14.5	0.1	None		Coarse sand and gravel, dry
		18-20	0.0	None		Coarse sand, dry
		20-22	0.2	None		Coarse sand, dry
		24-26	0.1	None		Coarse red sand, moist
		28-30	1.9	None		
		32-34	0.8	None		
		36-38	0.5	None		
		40-42	0.4	None	TB-42-GW	Coarse red and brown sand, saturated
		44-46	0.3	None		
TB-43	7/22/2013	0.5	1.1	--		Bottom of slab, top of soil
		0.5-2.5	2.2	None		Coarse red and brown sand
		2.5-4.5	5.2	Slight		
		4.5-6.5	8.2	Slight		
		6.5-8.5	2.7	None		
		8.5-10.5	2.3	None		
		10.5-12.5	1.7	None		
		12.5-14.5	0.9	None		
		14.5-16.5	1.1	None		
		20-22	7.5	Strong		
		22-24	6.9	Strong		
		24-26	5.1	Slight		
		28-30	2.1	Slight		
		32-34	17.6	Slight	TB-43 and TB-43-GW	Coarse red and brown sand, saturated
		36-38	9.6	Slight		
		40	--	--		Ground water sample
TB-44	7/22/2013	0.5	0.7	--		Bottom of slab, top of concrete
		0.5-2.5	0.3	None		Coarse red and brown sand, dry
		2.5-4.5	0.4	None		
		4.5-6.5	0.1	None		Coarse red and brown sand, moist
		6.5-8.5	0.0	None		Coarse red and brown sand, saturated
		8.5-10.5	0.5	None		
		10.5-12.5	0.2	None		
		12.5-14.5	0.3	None		
		14.5-16.5	0.4	None		
		16.5-18.5	0.2	None		Coarse red and brown sand, dry
		18.5-20.5	0.3	None		
		20.5-22.5	0.3	None		Coarse red and brown sand, moist
TB-45	7/23/2013	1	0.3	--		Bottom of slab, top of soil
		0.5-2.5	0.0	None		Coarse red and brown sand, moist
		2.5-4.5	0.0	None		
		4.5-6.5	--	--		Concrete

TABLE 3
SOIL HEADSPACE SCREENING SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Boring ID	Sample Date	Sample Depth (ft bgs)	OVA-PID Reading (ppm)	Odor	Sample Collected	Soil Description
TB-46	7/23/2013	0.5	0.2	--		Bottom of slab top of soil
		0.5-2.5	0.0	--		Red and brown clayey sand
		2.5-4.5	0.0	Slight		Grey clayey sand, moist
		4.5-6.5	0.0	Slight		
		6.5-8.5	0.0	Slight		
		8.5-10.5	0.0	None		
		10.5-12.5	0.0	None		Grey saturated clay
		12.5-14.5	0.0	None		Red and brown clayey sand
		14.5-16.5	0.0	None		Coarse red sand, saturated
		16.5-18.5	0.2	None		Coarse red sand, dry
		18.5-20.5	0.1	None		
		20.5-22.5	0.0	None		
		24-26	0.5	None		
		28-30	0.2	None		
		32-34	1.8	None		
		36-38	1.1	None	TB-46-GW @ 40 ft	Coarse red sand, saturated
		42-44	4.2	None		
TB-47	7/23/2013	0.5	1.1	--		Bottom of slab, top of soil
		0.5-2.5	0.1	None		Black coarse sand and gravel, subgrade
		2.5-4.5	0.4	None		Coarse brown sand, dry
		12.5-14.5	0.2	None		Red and brown sand, saturated
		14.5-16.5	0.1	None		
		20-22	1.1	None		
		24-26	0.4	None	TB-47-GW @ 25 ft	
TB-48	7/24/2013	20-22	220.4	Strong		Discolored grey coarse sand, moist
		22-24	233.7	Strong		
		24-26	292.2	Strong	TB-48	
		26-28	139.9	Slight		Very dense coarse red and brown sand
		28-30	14.6	Slight		Coarse red and brown sand
		30-32	8.5	Slight		Coarse red and brown sand, saturated
		32-34	2.3	None		Coarse red and brown sand, moist
		40	--	--	TB-48-GW	--
TB-49	7/24/2013	16-18	0.6	None		Coarse red and brown sand, saturated
		18-20	54.4	Slight		Discolored coarse red sand, moist
		20-22	38.9	Slight		
		22-24	120.3	Strong	TB-49	Red and brown coarse sand
		24-26	6.9	Very Slight		
		26-28	3.3	None		
TB-50	7/24/2013	16-18	8.7	None		Coarse red and brown sand, dry
		18-20	10.5	Very slight		
		20-22	29.7	Strong		
		22-24	43.7	Strong	TB-50	
		24-26	0.0	Slight		
		26-28	1.6	Slight		
TB-51	10/22/2013	16-18	0.2	None		Brown and orange medium sand, dry
		18-20	152.2	Slight	TB-51-19.5	Brown and orange medium sand, grey-green discoloration @ 19.5'
		20-22	0.4	None		Brown and orange medium sand, dry
		22-24	0.6	None		Brown and orange medium sand, trace clay
		24-26	0.3	None		
		30-32	0.2	None		

TABLE 3
SOIL HEADSPACE SCREENING SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Boring ID	Sample Date	Sample Depth (ft bgs)	OVA-PID Reading (ppm)	Odor	Sample Collected	Soil Description
TB-52	10/23/2013	16-18	4.5	None		red and brown medium sand
		18-20	3.6	Slight		
		20-21	131.0	Strong		
		21-22	152.0	Strong	TB-52-21	
		22-24	93.7	Strong	TB-52-23	Red and brown clayey sand
		24-26	127.0	Strong	TB-52-25	red and brown sand, trace clay
		26-28	17.9	Slight		
		28-30	4.3	Slight		
TB-53	10/23/2013	16-18	0.1	None		red and brown medium sand
		18-20	0.0	None		
		20-22	0.0	None		
		22-24	34.9	Slight	TB-53-23	red and brown medium sand, green discoloration
		24-26	57.5	None	TB-53-24	
		26-28	0.1	None		red and brown medium sand
		28-30	2.5	None		
		33-35	0.7	None		red and brown clayey sand, saturated
TB-54	10/24/2013	20-22	0.0	None		red and brown sand
		22-24	91.9	Slight	TB-54-23	red and brown clayey sand, grey-green discoloration
		24-26	0.6	Slight		red and brown sand
		26-28	0.0	None		
		34-36	6.3	None		red and brown silty sand, saturated 34-35
TB-55	10/24/2013	20-22	0.0	None		red and brown sand
		22-24	0.0	None		
		24-26	0.0	None	could not sample	
		26-28	0.0	None	too much mud	
TB-56	10/25/2013	20-22	0.2	None		red and brown sand
		22-23	0.0	None		
		23-25	0.5	None		red and brown silty sand, green discoloration
		25-26	0.0	None		red and brown sand
		27-29	0.0	None	GW collected at 35'	
TB-57	10/28/2013	4-5	0.7	Slight		grey/brown clayey sand
		16-18	0.0	None		no recovery
		18-19	0.0	None		red and brown sand
		19-20	0.0	None		cobbles
		21-22	0.0	None		red and brown hard sand, some gravel
		22-23	0.0	None		read and brown hard sand
		24-25	0.0	None	GW collected at 35'	red and brown hard sand
TB-58	10/28/2013	4-5	0.0	None		red and brown sand
		5-6	0.0	None		
		6-8	0.0	None		red and brown silty sand, green discoloration
		10-12	0.0	None		red and brown sand
		20-22	0.0	None		
		22-24	0.0	None		red brown and grey silty sand
		24-26	0.0	None	GW collected at 35'	
TB-59	10/29/2013	18-20	0.1	None		red and brown silty sand
		20-22	0.0	None		
		22-23	7.3	None	TB-59-23	
		23-24	4.5	None		
		24-25	0.0	None	GW collected at 35'	

TABLE 3
SOIL HEADSPACE SCREENING SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Boring ID	Sample Date	Sample Depth (ft bgs)	OVA-PID Reading (ppm)	Odor	Sample Collected	Soil Description
TB-60	12/7/2013	0-2	0.0	None		Brown fine sand
		2-4	0.0	Slight		brown medium sand and gravel
		4-6	0.0	None		brown medium sand
		6-8	0.0	None		very hard red sand
		8-10	0.0	None		
		10-12	0.0	None		
		12-13	0.0	None		hard red sand
		13-15	0.4	None		
		15-16	0.0	None		very hard red sand
		16-17	0.4	None		
		17-18	0.5	None		
		18-19	0.0	None		
		19-20	0.0	None		
		20-21	0.0	None		
		21-22	0.0	None		
		22-23	0.0	None		
		23-24	0.0	None		
		24-26	0.1	None		
		26-27	0.6	None		
		27-28	1.2	None	GW collected at 33'	
TB-61	12/8/2013	0-5		None		brown and red sand
		5-7	0.4	None		grey/green clayey sand
		7-9	0.6	None		grey/green clayey sand
		9-11	0.5	None		red and brown silty sand
		11-12	0.2	None		hard red and brown sand
		12-14	0.3	None		
		14-16	0.2	None		red and brown silty sand
		16-18	0.4	None		hard red sand
		18-20	0.2	None		
		20-22	0.3	None		very stiff red and brown sand
		22-24	0.1	None	TB-61-24	hard red and brown sand
		24-26	0.1	None		hard red silty sand
		26-27	0.1	None		
		27-28	0.2	None	GW collected at 31'	
		34'-10"				END OF BORING - ROCK ENCOUNTERED
TB-65	11/7/2016	0-2	0.4	None		brown sand
		2-4	0.3	None		
		4-6	0.2	None		
		6-8	0.0	None		brown clayey sand
		8-10	0.7	None		
		10-12	0.9	None		brown to light brown silty clay
		12-14	1.1	None		
		14-16	1.1	None		
		16-18	1.9	None		
		18-20	5.0	None		
		20-22	22.3	None	SB-65 (20-22 FT)	
		22-24	18.1	None		
		24-26	27.5	None	SB-65 (24-26 FT)	brown sand and saprolite
		26-28	17.9	None		
		28-30	5.0	None		
		30-32	15.7	None		
		32-34	4.6	None		
		34-36	7.6	None		

TABLE 3
SOIL HEADSPACE SCREENING SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Boring ID	Sample Date	Sample Depth (ft bgs)	OVA-PID Reading (ppm)	Odor	Sample Collected	Soil Description
TB-66	11/7/2016	0-2	NS	None		brown sand
		2-4	NS	None		
		4-6	NS	None		
		6-8	0.1	None		brown to light brown silty clay
		8-10	0.3	None		
		10-12	28.9	None		
		12-14	0.2	None		
		14-16	0.1	None		
		16-18	NS	None		
		18-20	1.0	None		
		20-22	1.1	None		
		22-24	1.8	None		
		24-26	0.8	None		brown sand and saprolite
		26-28	1.2	None		
		28-30	0.9	None		
		30-32	3.9	None		
		32-34	5.1	None	SB-66 (32-34 FT)	
		34-36	1.7	None		
		36-38	0.5	None		
		38-40	1.6	None		
TB-67	11/9/2016	0-2	0.0	None		brown sand
		2-4	0.0	None		
		4-6	0.0	None		
		6-8	0.0	None		
		8-10	0.1	None		
		10-12	1.6	None		brown to light brown silty clay
		12-14	2.0	None		
		14-16	3.3	None		
		16-18	5.2	None		
		18-20	7.0	None	SB-67 (18-20 FT)	
		20-22	5.2	None		
		22-24	0.2	None		
		24-26	2.9	None		
		26-28	2.2	None		
		28-30	1.6	None		
		30-32	2.1	None		brown sand and saprolite
		32-34	0.7	None		
		34-36	1.0	None		

TABLE 3
SOIL HEADSPACE SCREENING SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Boring ID	Sample Date	Sample Depth (ft bgs)	OVA-PID Reading (ppm)	Odor	Sample Collected	Soil Description
TB-68	11/10/2016	0-2	NS	None		
		2-4	NS	None		
		4-6	NS	None		
		6-8	NS	None		
		8-10	NS	None		
		10-12	NS	None		
		12-14	NS	None		grey silty sand
		14-16	29.1	None	SB-68 (14-16)	red/brown and grey mottled fine sand
		16-18	1.8	None		
		18-20	1.0	None		brown silty clay
		20-22	1.1	None		mottled brown and grey silty clay
		22-24	6.1	None		
		24-26	3.2	None		
		26-28	NS	None		
		28-30	1.3	None		mottled brown and grey silty clay and saprolite
		30-32	0.2	None		
		32-34	0.0	None		
TB-69	4/25/2017	0-2	0.4	None		sand and gravel
		2-4	0.1	None		
		4-6	0.0	None		brown sandy clay and debris
		6-8	0.0	None		
		8-10	0.0	None		stiff orange/gray sandy clay
		10-12	0.0	None		
		12-14	0.1	None		
		14-16	0.3	None		orange brown clayey sand dry
		16-18	0.3	None		
		18-20	0.5	None		
		20-22	22.0	None	SB-69 20-22	
		22-24	0.7	None		brown fine sand dry
		24-26	10.8	None		
		26-28	4.7	None		orange brown clayey sand dry
		28-30	0.2	None		brown sand and saprolite dry
		30-32	1.8	None		brown orange brown gray sand and saprolite dry
		32-34	2.5	None		
		34-36	2.9	None		
		36-38	1.8	None		wet at 36.5 feet bgs

TABLE 3
SOIL HEADSPACE SCREENING SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Boring ID	Sample Date	Sample Depth (ft bgs)	OVA-PID Reading (ppm)	Odor	Sample Collected	Soil Description
TB-70	4/26/2017	0-2	NS	None		Augured through fill to 10 feet bgs
		2-4	NS	None		
		4-6	NS	None		
		6-8	NS	None		
		8-10	NS	None		
		10-12	9.9	None		orange brown gray fine sand dry
		12-14	20.6	None	SB-70 12-14	orange brown gray fine clayey sand dry
		14-16	7.5	None		
		16-18	0.9	None		
		18-20	46.1	None		
		20-22	46.6	None		
		22-24	63.0	None	SB-70 22-24	
		24-26	26.3	None		orange brown fine to coarse sand dry
		26-28	0.1	None		orange brown fine to coarse sands saprolite dry
		28-30	13.5	None		
		30-32	2.7	None		
		32-34	0.0	None		
		34-36	0.1	None		
		36-38	0.4	None		wet at 36.15 feet bgs
TB-71	4/26/2017	0-2	0.1	None		brown sand and rock debris dry
		2-4	0.3	None		brown clayey fine sand and rock dry
		4-6	0.0	None		brown sandy clay and rock dry
		6-8	0.0	None		
		8-10	0.0	None		
		10-12	0.6	None		gray orange clay and silty sand
		12-14	0.0	None		
		14-16	0.0	None		
		16-18	0.1	None		orange brown clayey sand dry
		18-20	0.0	None		orange brown fine to coarse sand/saprolite dry
		20-22	0.0	None		
		22-24	0.0	None		
		24-26	0.0	None		
		26-28	0.0	None		
		28-30	0.0	None		
		30-32	0.0	None		
		32-34	0.0	None		
		34-36	0.0	None		
		36-38	0.0	None		termination impenetrable depth of borehole at 36.75 feet bgs

TABLE 3
SOIL HEADSPACE SCREENING SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Boring ID	Sample Date	Sample Depth (ft bgs)	OVA-PID Reading (ppm)	Odor	Sample Collected	Soil Description
TB-72	4/27/2017	0-2	0.0	None		brown sand and rock dry
		2-4	0.0	None		
		4-6	1.5	None		brown clayey sand and rock dry
		6-8	0.5	None		brown sandy clay and rock
		8-10	0.0	None		Dark gray clay with rock dry
		10-12	0.0	None		
		12-14	9.5	None		orange brown sandy clay dry
		14-16	8.3	None		orange brown gray fine to coarse clayey sand dry
		16-18	3.6	None		
		18-20	0.3	None		
		20-22	0.3	None		orange brown fine to coarse sand/saprolite dry
		22-24	7.5	None		
		24-26	0.1	None		
		26-28	0.9	None		
		28-30	0.9	None		
		30-32	1.0	None		
		32-34	0.0	None		
		34-36	0.4	None		
		36-38	0.0	None		termination impenetrable depth of borehole at 37.5 feet bgs

TABLE 4
SOIL ANALYTICAL SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Sample Number	Sample Depth/ Interval	Sample Date	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Petroleum Range Organics
RSL			**110***	**6.4****	**200****	**690****	**1.7***	**NE**
TB-2	15	9/22/2010	0.0028 U	0.0032 U	0.0028 U	0.0034 U	0.0030 U	28.6
TB-3	4	9/22/2010	0.0027 U	0.0031 U	0.0027 U	0.0033 U	0.0030 U	4.9 U
TB-4	2	9/20/2010	0.0030 U	0.0034 U	0.0030 U	0.0037 U	0.0032 U	NA
TB-5	24	9/21/2010	0.0029 U	0.0033 U	0.0029 U	0.0036 U	0.0032 U	NA
TB-6	4	9/22/2010	0.0033 U	0.0037 U	0.0033 U	0.0041 U	0.0036 U	NA
TB-7	22	9/23/2010	0.0027 U	0.0031 U	0.0027 U	0.0033 U	0.0029 U	NA
TB-8	12	9/23/2010	0.0031 U	0.0035 U	0.0031 U	0.0038 U	0.0034 U	NA
TB-9	4	9/21/2010	0.0030 U	0.0034 U	0.0030 U	0.0037 U	0.0032 U	NA
TB-10	4	9/23/2010	0.0029 U	0.0033 U	0.0029U	0.0035 U	0.0031 U	25.0 U
TB-11	2	9/23/2010	0.0028 U	0.0031 U	0.0028 U	0.0034 U	0.0030 U	4.9 U
TB-12	5 - 6	9/23/2010	0.0032 U	0.0036 U	0.0032 U	0.0039 U	0.0035 U	5.5 U
TB-14	2 - 4	1/17/2011	0.0028 U	0.0031 U	0.0028 U	0.0034 U	0.0030 U	NA
TB-16	1 - 2	6/12/2013	0.0024 U	0.0027 U	0.0024 U	0.0029 U	0.0026 U	NA
TB-18	2 - 3	6/13/2013	0.0027 U	**0.0918**	0.0027 U	0.0034 U	0.0030 U	NA
TB-22	4 - 5	6/13/2013	0.0041 U	0.0046 U	0.0041 U	0.0050 U	0.0044 U	NA
TB-33	3 - 5	7/16/2013	0.0035 U	0.0039 U	0.0035 U	0.0043 U	0.0038 U	935
TB-41	20 - 22	7/17/2013	0.0031 U	**0.0222**	**0.0691**	0.0038 U	**0.0038 I**	NA
TB-43	32 - 34	7/22/2013	0.0025 U	**0.575**	**0.555**	**0.0043 I**	**0.0454**	NA
TB-48	24 - 26	7/24/2013	0.0026 U	**0.0032 I**	0.0026 U	0.0032 U	**0.0068**	NA
TB-49	22 - 24	7/24/2013	0.0024 U	0.0027 U	**0.0034 I**	0.0029 U	0.0026 U	NA
TB-50	22 - 24	7/24/2013	0.0021 U	0.0023 U	0.0021 U	0.0025 U	0.0022 U	NA
TB-51	18 - 20	10/22/2013	0.0029 U	0.0033 U	0.0029 U	0.0036 U	0.0031 U	NA
TB-52	20 - 22	10/23/2013	0.0030 U	**1.15**	**0.0311**	0.0037 U	0.0032 U	NA
TB-52	22 - 24	10/23/2013	0.0031 U	**6.27**	**0.172**	0.0038 U	**0.0131**	NA
TB-52	24 - 26	10/23/2013	0.0029 U	**1.63**	**0.0878**	0.0036 U	**0.0035 I**	NA
TB-53	23	10/23/2013	0.0029 U	0.0032 U	0.0029 U	0.0035 U	0.0031 U	NA
TB-53	24	10/23/2013	0.0027 U	0.0031 U	0.0027 U	0.0033 U	0.0029 U	NA
TB-54	23	10/24/2013	**0.0053**	**0.005**	**0.007**	0.0030 U	**0.0062**	NA
TB-59	23	10/29/2013	0.0038 U	0.0043 U	0.0038 U	0.0047 U	0.0041 U	NA
TB-59-GW	35 - 40	10/29/2013	0.0116 U	0.0131 U	0.0116 U	0.0142 U	0.0125 U	NA

TABLE 4
SOIL ANALYTICAL SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Sample Number	Sample Depth/ Interval	Sample Date	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Petroleum Range Organics
RSL			**110***	**6.4****	**200****	**690****	**1.7***	**NE**
TB-61	24	12/8/2013	0.0013 U	0.0014 U	0.0013 U	0.0016 U	0.0014 U	NA
MW-13S-5	5	11/4/2013	0.0029 U	0.0033 U	0.0029 U	0.0036 U	0.0032 U	NA
SB-65	20 - 22	11/7/2016	0.0022 U	**0.279**	**0.145**	**0.0041 I**	0.0024 U	NA
SB-65	24 - 26	11/7/2016	0.0027 U	**0.0618**	**0.0063**	0.0033 U	0.0029 U	NA
SB-65	32 - 34	11/9/2016	0.0035 U	**0.0893**	**0.0132**	0.0043 U	0.0038 U	NA
SB-67	18 - 20	11/9/2016	0.0026 U	0.0030 U	**0.0078**	0.0032 U	0.0028 U	NA
SB-68	14 - 16	11/9/2016	0.0027 U	0.0030 U	0.0027 U	0.0033 U	0.0029 U	NA
SB-69	20 - 22	4/26/2017	0.0030 U	**0.0814**	0.0030 U	0.0036 U	0.0032 U	NA
SB-70	12 - 14	4/26/2017	0.0036 U	**0.875**	**0.00613**	0.0044 U	0.0038 U	NA
SB-70	22 - 24	4/26/2017	**0.0028 I**	0.0029 U	0.0025 U	0.0031 U	0.0027 U	NA

Notes:
All analytical results reported as mg/kg (milligrams per kilogram).

U - Indicates the compound was analyzed for but not detected at a concentration greater than the shown MDL.

I - The reported value is between the laboratory MDL and the laboratory practical quantitation limit (PQL).
MDL - Method Detection Limit
RSLs are the EPA Regional Screening Levels for Industrial/Commercial Use dated November 2013.
NE - RSL was not established for this analyte
NA - constituent not analyzed
*RSL was set at the more stringent carcinogenic screening level.
**RSL was set at the more stringent noncarcinogenic screening level.
Bold denotes a detection above laboratory method detection limit.
Sample depth interval is in feet below ground surface.

TABLE 5
GROUNDWATER ANALYTICAL SUMMARY
CONSTITUENTS OF CONCERN

Former Wyeth, Carolina Facility, Puerto Rico

Sample		Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,2-Dichloroethene (Total)*	Vinyl Chloride	Total Organic Carbon	Methane	Ethane	Ethene
Location	Date										
MCL		5	5	7	70	70	2	NA	NA	NA	NA
MW-01S	02/02/2011	0.5	2.8	1.2	0.50 U	0.50 U	0.50 U	NM	NM	NM	NM
	10/17/2011	0.64 I	3.2	0.80 I	0.50 U	0.50 U	0.50 U	NM	NM	NM	NM
	09/12/2012	0.72 I	2.3	0.50 U	0.50 U	0.50 U	0.50 U	1.2	0.12 I	0.20 U	0.037 I
MW-02S	02/02/2011	1.4	1,630	9.9	1,490	1,500	303	NM	NM	NM	NM
	10/18/2011	1.6	1,830	7.9	1,780	1,790	253	NM	NM	NM	NM
	09/11/2012	1.4	1,090	7.7	1,200	1,200	222	1.7	410	5.3	4.3
	04/17/2013	1.5	776	9.4	1,280	1,290	130	NM	NM	NM	NM
	12/04/2013	1.3	1,330	7.3	1,390	1,400	329	1.9	600	0.87	1.7
	02/03/2015	1.6	1,550	8.3	1,710	1,730	248	1.8	NM	NM	NM
	03/16/2015	1.3	1,230	7.4	1,370	1,380	186	1.9	200	5.0	2.8
	04/21/2015	1.6	1,260	9.3	1,440	1,450	157	1.9	150	3.9	2.3
	07/17/2015	NM	NM	NM	NM	NM	NM	2.87	NM	NM	NM
	07/24/2015	NM	NM	NM	NM	NM	NM	1.51	NM	NM	NM
	08/07/2015	1.4	1,560	8.3	1,640	1,660	257	1.90	NM	NM	NM
	01/17/2016	0.50 U	278	1.9	381	393	19.3	0.89 I	NM	NM	NM
	04/18/2016	0.56 I	661	5.0	1,080	1,110	354	1.90	NM	NM	NM
	07/26/2016	50.0 U	1,350	50.0 U	1,420	1,550	318	NM	NM	NM	NM
	12/21/2016	0.50 U	353	4.1	621	770	193	NM	NM	NM	NM
	06/20/2017	0.50 U	106	1.9	494	692	185	NM	NM	NM	NM
MW-02D	02/02/2011	0.50 U	523	4.6	431	439	53.6	NM	NM	NM	NM
	10/18/2011	0.50 U	310	3.3	716	734	32.0	NM	NM	NM	NM
	09/11/2012	0.50 U	205	2.9	379	391	34.2	1.1	430	0.30	1.4
	04/17/2013	0.50U	104	4.3	257	303	20.1	NM	NM	NM	NM
	12/03/2013	0.50 U	347	4.9	653	671	46.0	1.4	350	5.0	3.7
	02/03/2015	0.50 U	341	2.1	481	496	20.5	1.0	NM	NM	NM
	03/16/2015	0.50 U	235	2.1	439	449	17.7	1.1	260	0.23	0.40
	04/21/2015	0.50 U	274	2.7	380	393	18.8	1.1	240	0.23	0.32
	07/26/2016	12.5 U	336	12.5 U	476	495	35.3	NM	NM	NM	NM
	12/21/2016	0.50 U	175	2.2	291	303	27.1	NM	NM	NM	NM
	06/20/2017	0.50 U	320	3.9	571	592	61.5	NM	NM	NM	NM

TABLE 5
GROUNDWATER ANALYTICAL SUMMARY
CONSTITUENTS OF CONCERN

Former Wyeth, Carolina Facility, Puerto Rico

Sample		Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,2-Dichloroethene (Total)*	Vinyl Chloride	Total Organic Carbon	Methane	Ethane	Ethene
Location	Date										
MW-03S	02/02/2011	**85.4**	**20**	**6.9**	**32.2**	**32.6**	**4.3**	NM	NM	NM	NM
	10/18/2011	**133**	**34.3**	**7.5**	**46.9**	**47.3**	**4.1**	NM	NM	NM	NM
	09/12/2012	**110**	**30.0**	**7.5**	**46.6**	**46.8**	**4.2**	**1.4**	**1.0**	**0.19 I**	**0.14 I**
	04/17/2013	**68**	**37.9**	**9.8**	**54.4**	**54.9**	**3.5**	NM	NM	NM	NM
	12/04/2013	**132**	**36.8**	**7.2**	**45.9**	**46.2**	**6.3**	**1.5**	**0.46**	**0.16 I**	**0.045 I**
MW-03D	02/02/2011	0.50 U	**1.9**	**0.5**	**1.2**	0.50 U	0.50 U	NM	NM	NM	NM
	10/18/2011	0.50 U	**2.4**	**0.57 I**	**1.7**	**1.8**	0.50 U	NM	NM	NM	NM
	09/12/2012	0.50 U	**1.2**	0.50 U	**1.1**	**1.2**	0.50 U	**1.2**	**9.4**	**0.030 I**	**0.15 I**
	04/17/2013	0.50U	**1.6**	0.5	**1.5**	**2.1**	0.50U	NM	NM	NM	NM
	12/04/2013	**5.4**	**1.3**	**0.70 I**	**1.6**	**2.2**	0.50 U	**1.2**	**7.7**	**0.048 I**	**0.36**
MW-04S	02/02/2011	0.50 U	0.50 U	**0.5**	0.50 U	0.50 U	0.50 U	NM	NM	NM	NM
	10/17/2011	0.50 U	0.50 U	**0.58 I**	0.50 U	0.50 U	0.50 U	NM	NM	NM	NM
	09/12/2012	0.50 U	0.50 U	**0.54 I**	0.50 U	0.50 U	0.50 U	0.50 U	**9.1**	**0.010 I**	**0.027 I**
MW-05S	02/02/2011	0.50 U	**1.8**	**1.7**	**0.5**	**0.5**	0.50 U	NM	NM	NM	NM
	10/17/2011	0.50 U	**2.4**	**0.74 I**	**0.59 I**	**0.59 I**	0.50 U	NM	NM	NM	NM
	09/12/2012	0.50 U	**2.1**	**1.1**	**0.74 I**	**0.74 I**	0.50 U	**0.72 I**	**2.6**	**0.070 I**	**0.064 I**
	12/05/2013	0.50 U	**3.7**	**1.2**	**0.79 I**	**0.79 I**	0.50 U	**1.1**	**1.9**	0.018 U	**0.022 I**
MW-06S	02/02/2011	0.50 U	**19**	**7.4**	**4.1**	**4.1**	0.50 U	NM	NM	NM	NM
	10/18/2011	0.50 U	**17.9**	**5.9**	**4.4**	**4.4**	0.50 U	NM	NM	NM	NM
	09/11/2012	0.50 U	**17.8**	**5.0**	**3.5**	**3.5**	0.50 U	**0.91 I**	**3.0**	**0.017 I**	**0.052 I**
	12/05/2013	0.50 U	**26.0**	**6.3**	**4.4**	**4.5**	0.50 U	**0.76 I**	**3.3**	0.018 U	**0.030 I**

TABLE 5
GROUNDWATER ANALYTICAL SUMMARY
CONSTITUENTS OF CONCERN

Former Wyeth, Carolina Facility, Puerto Rico

Sample		Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,2-Dichloroethene (Total)*	Vinyl Chloride	Total Organic Carbon	Methane	Ethane	Ethene
Location	Date										
MW-07S	10/17/2011	2.2	538	2.1	324	327	41.6	NM	NM	NM	NM
	09/11/2012	2.1	467	2.7	309	312	77.2	1.8	0.20 U	0.20 U	0.20 U
	04/17/2013	3.0	375	4.1	403	408	70.8	NM	NM	NM	NM
	12/03/2013	1.9	703	3.5	494	497	99.2	2.3	120	2.0	0.63
	02/03/2015	1.7	666	2.4	509	519	68.7	2.1	NM	NM	NM
	03/17/2015	1.5	645	3.6	547	552	92.5	2.0	72	1.8	0.62
	04/22/2015	2.0	744	4.5	636	643	100	2.0	75	2.2	0.69
	07/17/2015	NM	NM	NM	NM	NM	NM	57.6	NM	NM	NM
	07/21/2015	NM	NM	NM	NM	NM	NM	10.5	NM	NM	NM
	07/28/2015	NM	NM	NM	NM	NM	NM	3.61	NM	NM	NM
	07/31/2015	1.2 U	68.9	6.2	1,536	1,546	1.2 U	NM	NM	NM	NM
	08/11/2015	2.5 U	315	4.7 I	1,210	1,220	116	2.4	NM	NM	NM
	01/17/2016	0.50 U	3.1	0.50 U	11.4	25.1	1,060	48.0	NM	NM	NM
	04/18/2016	0.50 U	23.6	0.76 I	77.8	84.8	186	4.6	NM	NM	NM
	07/26/2016	2.5 U	14.7	2.5 U	248	300	223	2.8	5,370	3.8 I	92.7
	12/21/2016	0.50 U	0.50 U	1.5	285	358	193	NM	NM	NM	NM
	06/20/2017	0.50 U	0.66 I	0.50 U	23	34	23	NM	1,330	4.9 U	6.9 I
MW-07D	10/17/2011	0.50 U	12.5	0.50 U	116	134	1.9	NM	NM	NM	NM
	09/11/2012	0.50 U	0.50 U	0.50 U	90.5	109	1.7	1.4	140	0.080 I	0.73
	04/17/2013	0.50 U	7.8	0.50 U	95.4	122	2.3	NM	NM	NM	NM
	12/03/2013	0.50 U	3.1	0.50 U	114	139	2.4	1.4	340	0.051 I	2.1
	02/03/2015	0.50 U	0.50 U	0.50 U	141	182	1.2	1.5	NM	NM	NM
	03/16/2015	0.50 U	0.50 U	0.50 U	155	188	1.4	1.2	590	0.02	1.2
	04/21/2015	0.50 U	3.0	0.50 U	172	215	3.1	1.1	330	0.03	1.0
	07/17/2015	NM	NM	NM	NM	NM	NM	3.28	NM	NM	NM
	07/21/2015	NM	NM	NM	NM	NM	NM	3.83	NM	NM	NM
	07/28/2015	NM	NM	NM	NM	NM	NM	3.39	NM	NM	NM
	08/11/2015	0.50 U	0.59 I	0.50 U	133	163	4.6	1.2	NM	NM	NM
	12/21/2016	0.50 U	3.9	0.50 U	118	148	8.6	NM	NM	NM	NM
MW-08S	10/17/2011	25.9	12.1	2.3	10	10	2.1	NM	NM	NM	NM
	09/12/2012	31.4	11.3	2.4	10.7	10.7	0.50 U	1.2	0.35	0.059 I	0.086 I
	12/05/2013	10.9	4.3	0.85 I	2.9	2.9	0.50 U	1.2	0.48	0.018 U	0.035 I

TABLE 5
GROUNDWATER ANALYTICAL SUMMARY
CONSTITUENTS OF CONCERN

Former Wyeth, Carolina Facility, Puerto Rico

Sample		Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,2-Dichloroethene (Total)*	Vinyl Chloride	Total Organic Carbon	Methane	Ethane	Ethene
Location	Date										
MW-09S	10/17/2011	0.50 U	14.3	9.2	0.99 I	0.99 I	0.50 U	NM	NM	NM	NM
	09/11/2012	0.50 U	13.7	8.5	0.76 I	0.76 I	0.50 U	1.0 I	0.68	0.20 U	0.050 I
	12/04/2013	0.50 U	13.7	8.1	0.85 I	0.85 I	0.50 U	0.94 I	1.3	0.018 U	0.026 I
MW-10S	12/03/2013	29.7	11.6	2.8	10.8	10.8	1.3	1.8	1.0	0.37	0.032 I
MW-11S	12/03/2013	0.50 U	62.6	0.50 U	8.1	8.8	1.3	2.3	8.6	2.0	0.84
MW-12S	12/02/2013	28.3	109	2.9	44.0	44.6	1.6	1.2	4.2	0.49	0.53
MW-13S	12/02/2013	3.5	3,510	12.1	2,610	2,640	429	2.5	550	14	13
	12/2/2013[1]	3.2	2,770	13.9	1,890	1,920	324	NM	540	14	14
	03/16/2015	0.85 I	1,310	5.3	1,630	1,640	134	4.9	100	2.0	3.2
	04/20/2015	1.3	1,390	14.0	3,100	3,140	274	4.6	210	5.3	10
	04/19/2016	0.50 U	1.2	0.50 U	2.6	18.4	5.1	12.8	NM	NM	NM
	07/25/2016	0.50 U	89.9	6.2	2,040	2,080	553	NM	NM	NM	NM
	12/21/2016	0.50 U	31.1	0.50 U	158	347	74	NM	NM	NM	NM
	06/20/2017	0.50 U	161	2.5	256	606	85.1	NM	NM	NM	NM
MW-14S	12/04/2013	0.50 U	1.2	0.50 U	0.50 U	0.50 U	0.50 U	1.8	12.0	5.2	0.13 I
MW-15S	12/02/2013	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	3.3	52	11	2.9
MW-16S	02/03/2015	3.9	4,000	20.3	4,210	4,300	547	2.5	1,000	24	14
	03/16/2015	3.5	2,370	16.3	3,180	3,210	397	2.6	800	13	8.4
	04/21/2015	3.4	2,630	20.0	2,980	3,010	383	2.5	740	15	8.3
	07/17/2015	NM	NM	NM	NM	NM	NM	3	NM	NM	NM
	07/24/2015	NM	NM	NM	NM	NM	NM	2	NM	NM	NM
	08/07/2015	2.8	3,560	18.0	3,940	4,100	709	2.9	NM	NM	NM
	12/04/2015	0.50 U	144	0.50 U	969	1,000	2,570	7.9	NM	NM	NM
	01/17/2016	0.50 U	290	3.2	737	791	1,020	3.7	NM	NM	NM
	04/19/2016	NM	NM	NM	NM	NM	NM	3.9	NM	NM	NM
	07/26/2016	0.50 U	58.7	0.57 I	159	307	117	3.9	7,410	31.6	62.6
	12/21/2016	0.50 U	21.6	0.50 U	194	378	156	NM	NM	NM	NM
	06/20/2017	0.50 U	33.8	1.2	360	645	237	NM	2,260	85.6	63.3

TABLE 5
GROUNDWATER ANALYTICAL SUMMARY
CONSTITUENTS OF CONCERN

Former Wyeth, Carolina Facility, Puerto Rico

Sample		Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,2-Dichloroethene (Total)*	Vinyl Chloride	Total Organic Carbon	Methane	Ethane	Ethene
Location	Date										
MW-17S	02/04/2015	1.4	5,930	62.1	9,380	9,530	658	4.2	1,200	41	10
	03/16/2015	0.50 U	826	59.4	10,200	10,300	1,080	7.7	540	18	5.8
	04/20/2015	0.73 I	2,020	67.7	9,080	9,220	810	4.3	920	38	11
	07/08/2015	NM	NM	NM	NM	NM	NM	1,629	NM	NM	NM
	07/13/2015	NM	NM	NM	NM	NM	NM	1,652	NM	NM	NM
	07/17/2015	NM	NM	NM	NM	NM	NM	1,479	NM	NM	NM
	07/24/2015	NM	NM	NM	NM	NM	NM	1,522	NM	NM	NM
	08/07/2015	0.50 U	0.83 I	0.99 I	4.9	85	1,830	436	NM	NM	NM
	09/11/2015	6.0 U	6.0 U	6.0 U	409	409	26.0	451	NM	NM	NM
	12/04/2015	0.50 U	0.80 I	0.50 U	4.5	10.6	18.3	245	NM	NM	NM
	07/27/2016	0.50 U	25.2	0.50 U	7.5	11.1	16.4	28.4	2,150	11.4	5.4 I
	12/21/2016	0.50 U	3.4	0.50 U	19.9	35.2	26.6	NM	NM	NM	NM
	06/21/2017	0.50 U	11.0	1.3	300	482	260	NM	NM	NM	NM
MW-18S	02/04/2015	0.68 I	3,190	36.6	5,440	5,530	354	3.2	1,200	21	5
	03/16/2015	0.50 U	220	42.6	8,160	8,250	414	4.3	960	16	3.9
	04/20/2015	0.50 U	917	45.2	5,340	5,430	449	4.4	790	16	5.0
	07/08/2015	NM	NM	NM	NM	NM	NM	1,290	NM	NM	NM
	07/13/2015	NM	NM	NM	NM	NM	NM	1,269	NM	NM	NM
	07/17/2015	NM	NM	NM	NM	NM	NM	892	NM	NM	NM
	07/24/2015	NM	NM	NM	NM	NM	NM	649	NM	NM	NM
	08/07/2015	0.50 U	0.50 U	0.50 U	2.3	61.9	1,820	424	NM	NM	NM
	09/11/2015	12.0 U	12.0 U	12.0 U	54.8	86.9	114	556	NM	NM	NM
	06/20/2017	0.50 U	108	1.8	341	571	773	NM	NM	NM	NM
MW-19S	07/07/2015	1.2 U	556	12.8	4,502	4,543	317	3.43	NM	NM	NM
	07/10/2015	NM	NM	NM	NM	NM	NM	286	NM	NM	NM
	07/13/2015	NM	NM	NM	NM	NM	NM	225	NM	NM	NM
	07/17/2015	NM	NM	NM	NM	NM	NM	149	NM	NM	NM
	07/24/2015	NM	NM	NM	NM	NM	NM	91.9	NM	NM	NM
	08/07/2015	0.50 U	8.8	0.50 U	166	212	486	29.9	NM	NM	NM
	09/11/2015	12.0 U	12.0 U	12.0 U	12.0 U	28.4	12.0 U	3.74	NM	NM	NM
	04/19/2016	0.50 U	0.50 U	0.50 U	2.4	5.4	5	3.4	NM	NM	NM
	12/21/2016	0.50 U	1.8	0.50 U	12.3	22.0	11	NM	NM	NM	NM

TABLE 5
GROUNDWATER ANALYTICAL SUMMARY
CONSTITUENTS OF CONCERN

Former Wyeth, Carolina Facility, Puerto Rico

Sample		Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,2-Dichloroethene (Total)*	Vinyl Chloride	Total Organic Carbon	Methane	Ethane	Ethene
Location	Date										
MW-20S	07/07/2015	1.2 U	532	9.00	2,544	2,568	181	1.64	NM	NM	NM
	07/10/2015	NM	NM	NM	NM	NM	NM	216	NM	NM	NM
	07/13/2015	NM	NM	NM	NM	NM	NM	35.7	NM	NM	NM
	07/17/2015	NM	NM	NM	NM	NM	NM	6.36	NM	NM	NM
	07/24/2015	NM	NM	NM	NM	NM	NM	8.55	NM	NM	NM
	08/07/2015	0.50 U	151	4.4	645	670	426	2.30	NM	NM	NM
	09/11/2015	12.0 U	12.0 U	12.0 U	12.0 U	35.6	12.0 U	188	NM	NM	NM
	01/17/2016	0.50 U	113	1.6	193	244	61.3	2.2	NM	NM	NM
	04/19/2016	NM	NM	NM	NM	NM	NM	2.2	NM	NM	NM
	07/27/2016	0.50 U	103	1.8	159	224	68.8	NM	NM	NM	NM
MW-21S	07/10/2015	1.2 U	1,649	7.0	3,282	3,292	298	2.16	NM	NM	NM
	07/17/2015	NM	NM	NM	NM	NM	NM	131	NM	NM	NM
	07/21/2015	NM	NM	NM	NM	NM	NM	6.47	NM	NM	NM
	07/28/2015	NM	NM	NM	NM	NM	NM	3.10	NM	NM	NM
	07/31/2015	1.2 U	1,511	7.0	1,608	1,621	1.2 U	NM	NM	NM	NM
	08/11/2015	2.5 U	1,970	8.2	1,480	1,490	214	2.4	NM	NM	NM
	04/18/2016	0.50 U	141	3.9	776	793	816	2.5	NM	NM	NM
	07/26/2016	12.5 U	161	12.5 U	1,400	1,460	457	NM	NM	NM	NM
	12/21/2016	0.50 U	119	5.4	858	948	232	NM	NM	NM	NM
	06/20/2017	0.50 U	10.6	0.63 I	159	205	117	NM	884	12.5	4.0 I
MW-22S	01/17/2016	0.50 U	5.9	0.50 U	2.8	3.0	1.0	5.6	NM	NM	NM
MW-23S	01/17/2016	1.2	246	2.5	35.9	40.2	2.4	1.6	NM	NM	NM
	07/27/2016	1.3	263	3.8	42.5	48.8	3.0	NM	NM	NM	NM
MW-24S	01/17/2016	0.50 U	153	0.50 U	56.5	57	18.0	2.6	NM	NM	NM
	04/20/2016	0.50 U	55.6	0.55 I	102	103	7.6	3.3	NM	NM	NM
	07/27/2016	0.50 U	145	0.66 I	53.4	53.9	6.3	NM	NM	NM	NM
	12/21/2016	0.50 U	109	0.50 U	36.3	37.0	5.6	NM	NM	NM	NM
MW-26S	06/21/2017	17.7	684	1.3	69.1	74.5	37.9	NM	NM	NM	NM

TABLE 5
GROUNDWATER ANALYTICAL SUMMARY
CONSTITUENTS OF CONCERN

Former Wyeth, Carolina Facility, Puerto Rico

Sample		Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,2-Dichloroethene (Total)*	Vinyl Chloride	Total Organic Carbon	Methane	Ethane	Ethene
Location	Date										
MW-28S	11/18/2016	0.50 U	**35.2**	0.50 U	**7.1**	**7.5**	0.50 U	NM	NM	NM	NM
MW-29S	06/21/2017	0.50 U	**26.0**	0.50 U	**8.7**	**9.2**	**2.0**	NM	**41.2**	4.9 U	0.68 U
MW-30D	11/18/2016	0.50 U	**4.8**	0.50 U	**2.3**	**2.4**	0.50 U	NM	NM	NM	NM
MW-31S	06/20/2017	**0.61 I**	**119**	0.50 U	**23.2**	**39.2**	**19.4**	NM	NM	NM	NM
INJ-1	07/17/2015	NM	NM	NM	NM	NM	NM	**488**	NM	NM	NM
	07/21/2015	NM	NM	NM	NM	NM	NM	**452**	NM	NM	NM
	07/28/2015	NM	NM	NM	NM	NM	NM	**92.6**	NM	NM	NM
	08/11/2015	2.5 U	2.5 U	2.5 U	**25.5**	**47.6**	**543**	**117**	NM	NM	NM
INJ-2	02/03/2015	**1.4**	**1,170**	**4.2**	**982**	**1,020**	**146**	NM	NM	NM	NM
	04/21/2015	**1.7**	**1,250**	**7.4**	**1,200**	**1,210**	**162**	**1.9**	**900**	**4.6**	**1.6**
	07/17/2015	NM	NM	NM	NM	NM	NM	**775**	NM	NM	NM
	07/21/2015	NM	NM	NM	NM	NM	NM	**703**	NM	NM	NM
	07/28/2015	NM	NM	NM	NM	NM	NM	**556**	NM	NM	NM
	07/31/2015	1.2 U	**2.8**	**3.0**	**931**	**936**	1.2 U	NM	NM	NM	NM
	08/11/2015	2.5 U	2.5 U	**4.3 I**	**1,470**	**1,480**	**91.8**	**687**	NM	NM	NM
INJ-3	04/22/2015	1.8	**1,750**	**9.3**	**1,480**	**1,490**	**183**	**2.2**	**590**	**5.0**	**1.6**
	07/17/2015	NM	NM	NM	NM	NM	NM	**5,145**	NM	NM	NM
	07/21/2015	NM	NM	NM	NM	NM	NM	**739**	NM	NM	NM
	07/28/2015	NM	NM	NM	NM	NM	NM	**231**	NM	NM	NM
	08/11/2015	2.5 U	**5.2**	**10.1**	**3,540**	**3,560**	**206**	**94.7**	NM	NM	NM
	07/28/2016	0.50 U	**11.2**	0.50 U	**48.0**	**88.7**	**160**	**8.2**	NM	NM	NM
INJ-4	07/17/2015	NM	NM	NM	NM	NM	NM	**2.90**	NM	NM	NM
	07/21/2015	NM	NM	NM	NM	NM	NM	**1.64**	NM	NM	NM
	07/28/2015	NM	NM	NM	NM	NM	NM	**1.37**	NM	NM	NM
	08/11/2015	2.5 U	**1,290**	**6.6**	**1,540**	**1,580**	**159**	**1.5**	NM	NM	NM
	04/19/2016	NM	NM	NM	NM	NM	NM	**126**	NM	NM	NM
	07/27/2017	0.50 U	**7.5**	0.50U	**169**	**218**	**78**	**13.4**	NM	NM	NM

TABLE 5
GROUNDWATER ANALYTICAL SUMMARY
CONSTITUENTS OF CONCERN

Former Wyeth, Carolina Facility, Puerto Rico

Sample		Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,2-Dichloroethene (Total)*	Vinyl Chloride	Total Organic Carbon	Methane	Ethane	Ethene
Location	Date										
INJ-5	02/03/2015	3.1	2,260	13.8	3,000	3,050	373	NM	NM	NM	NM
	04/21/2015	1.7	1,210	14.7	2,650	2,690	304	2.3	1,400	12	6.7
	07/26/2017	0.50 U	0.61 I	0.50 U	177	363	172	8.7	NM	NM	NM
INJ-6	04/21/2015	3.2	2,210	16.9	3,710	3,750	451	3.3	650	25	12
	04/19/2016	NM	NM	NM	NM	NM	NM	55	NM	NM	NM
	07/27/2017	0.50 U	0.56 I	6.1	1,840	2,340	1,000	NM	NM	NM	NM
INJ-7	04/20/2015	0.50 U	29.6	1.5	315	331	119	2.5	360	1.5	110
	07/17/2015	NM	NM	NM	NM	NM	NM	116	NM	NM	NM
	08/07/2015	0.50 U	0.50 U	0.50 U	2.4	10.6	39.8	274	NM	NM	NM
	01/17/2016	0.50 U	19.9	0.50 U	27.6	54.1	48.1	6.3	NM	NM	NM
INJ-8	07/17/2015	NM	NM	NM	NM	NM	NM	6,110	NM	NM	NM
	08/07/2015	0.50 U	0.50 U	0.50 U	10.6	19.6	17.9	522	NM	NM	NM
INJ-9	02/04/2015	0.50 U	1,600	24.4	3,860	3,920	379	NM	NM	NM	NM
	07/13/2015	NM	NM	NM	NM	NM	NM	1,041	NM	NM	NM
	07/13/2015	NM	NM	NM	NM	NM	NM	1,031	NM	NM	NM
	07/17/2015	NM	NM	NM	NM	NM	NM	470	NM	NM	NM
	07/24/2015	NM	NM	NM	NM	NM	NM	297	NM	NM	NM
	08/07/2015	0.50 U	0.61 I	0.50 U	5.9	34.9	420	344	NM	NM	NM
	09/11/2015	NM	NM	NM	NM	NM	NM	226	NM	NM	NM
	04/19/2016	NM	NM	NM	NM	NM	NM	21.2	NM	NM	NM
INJ-10	02/03/2015	0.50 U	2,020	37.0	4,690	4,780	444	NM	NM	NM	NM
	04/20/2015	0.50 U	634	29.7	4,970	5,510	1,090	4.8	820	16	5.7
	07/13/2015	NM	NM	NM	NM	NM	NM	1,654	NM	NM	NM
	07/17/2015	NM	NM	NM	NM	NM	NM	591	NM	NM	NM
	07/24/2015	NM	NM	NM	NM	NM	NM	1,231	NM	NM	NM
	08/07/2015	0.50 U	0.85 I	0.50 U	14.2	53.3	1,410	531	NM	NM	NM
	09/11/2015	NM	NM	NM	NM	NM	NM	3.57	NM	NM	NM
	04/19/2016	NM	NM	NM	NM	NM	NM	71.5	NM	NM	NM

TABLE 5
GROUNDWATER ANALYTICAL SUMMARY
CONSTITUENTS OF CONCERN

Former Wyeth, Carolina Facility, Puerto Rico

Sample		Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,2-Dichloroethene (Total)*	Vinyl Chloride	Total Organic Carbon	Methane	Ethane	Ethene
Location	Date										
INJ-11	07/17/2015	NM	NM	NM	NM	NM	NM	**1,254**	NM	NM	NM
	08/07/2015	0.50 U	1.5	0.50 U	25.2	26.7	4.9	**921**	NM	NM	NM
INJ-12	04/20/2015	0.50 U	**169**	**15.8**	**1,250**	**1,370**	**236**	**4.2**	**510**	**1.1**	**28**
	07/17/2015	NM	NM	NM	NM	NM	NM	**1,300**	NM	NM	NM
	08/07/2015	0.50 U	0.50 U	0.50 U	**7.3**	**59.6**	**167**	**801**	NM	NM	NM
INJ-15	07/10/2015	1.2 U	**1,225**	**7.50**	**1,170**	**1,180**	**235**	NM	NM	NM	NM
	07/17/2015	NM	NM	NM	NM	NM	NM	**1,403**	NM	NM	NM
	07/21/2015	NM	NM	NM	NM	NM	NM	**734**	NM	NM	NM
	07/28/2015	NM	NM	NM	NM	NM	NM	**223**	NM	NM	NM
	07/31/2015	1.2 U	**595**	**7.3**	**2,022**	**2,030**	1.2 U	NM	NM	NM	NM
	08/11/2015	2.5 U	**3.2 I**	**12.5**	**3,630**	**3,670**	**220**	**70.4**	NM	NM	NM
	01/17/2016	0.50 U	**0.54 I**	0.50 U	**29.9**	**33.0**	**291**	**72.3**	NM	NM	NM
INJ-16	01/17/2016	**2.0**	**1,810**	**8.2**	**1,810**	**1,830**	**421**	**2.7**	NM	NM	NM
	04/18/2016	0.50 U	**35.6**	0.50 U	**203**	**229**	**163**	**10.6**	NM	NM	NM
	07/27/2017	0.50 U	**6.7**	**2.2**	**639**	**829**	**193**	**3.7**	NM	NM	NM
INJ-17	01/17/2016	**1.1**	**786**	**2.0**	**184**	**189**	**12.4**	**3.1**	NM	NM	NM
INJ-18	01/17/2016	**2.1**	**1,760**	**10**	**2,290**	**2,310**	**508**	**3.3**	NM	NM	NM
	04/19/2016	NM	NM	NM	NM	NM	NM	**46.8**	NM	NM	NM
	07/27/2017	0.50 U	**19.4**	**2.6**	**669**	**854**	**138**	**6.9**	NM	NM	NM
INJ-20	01/17/2016	0.50 U	**391**	**1.5**	**222**	**224**	**17.7**	**1.0**	NM	NM	NM
INJ-21	01/17/2016	0.50 U	**252**	**1.0**	**105**	**106**	**4.8**	**1.1**	NM	NM	NM
INJ-22	07/27/2017	0.50 U	**35**	**3.5**	**754**	**1,070**	**209**	**2.6**	NM	NM	NM
INJ-23	01/17/2016	**2.0**	**1,250**	**12.2**	**3,150**	**3,170**	**820**	**2.9**	NM	NM	NM

TABLE 5
GROUNDWATER ANALYTICAL SUMMARY
CONSTITUENTS OF CONCERN

Former Wyeth, Carolina Facility, Puerto Rico

Sample		Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,2-Dichloroethene (Total)*	Vinyl Chloride	Total Organic Carbon	Methane	Ethane	Ethene
Location	Date										
INJ-24	01/17/2016	5.9	3,870	9.9	1,610	1,630	238	2.3	NM	NM	NM
	04/20/2016	0.50 U	0.50 U	0.50 U	12.8	23.3	8.1	220	NM	NM	NM
	07/27/2016	0.50 U	22.5	0.50 U	49.9	55.1	18.8	26.6	NM	NM	NM
	06/20/2017	0.70 I	1,120	5.4	1,240	1,970	328	NM	NM	NM	NM
INJ-25	07/27/2017	0.50 U	217	7.6	942	1,190	353	5.1	NM	NM	NM
INJ-26	01/17/2016	0.67 I	155	1.1	134	135	21.4	2.0	NM	NM	NM
INJ-27	07/26/2016	0.61 I	237	2.6	33.1	37.2	2.9	NM	NM	NM	NM
INJ-28	07/26/2016	0.50 U	191	0.50 U	21.6	22.4	1.6	NM	NM	NM	NM
INJ-29	07/26/2016	0.90 I	1,740	1.4	244	249	8.0	2.0	NM	NM	NM
INJ-30	07/27/2016	2.4	2,180	11.3	279	301	35.7	NM	NM	NM	NM
INJ-31	11/17/2016	0.50 U	146	0.86 I	49.4	51.3	4.4	NM	NM	NM	NM
INJ-32	11/17/2016	0.50 U	2.7	0.50 U	1.4	1.4	0.50 U	NM	NM	NM	NM
INJ-33	11/18/2016	0.50 U	928	6.6	1,170	1,260	198.0	NM	NM	NM	NM
INJ-34	11/17/2016	0.50 U	1,180	5.5	1,280	1,360	221	NM	NM	NM	NM
	07/26/2017	0.50 U	44.2	0.89 I	81.9	84.9	10.8	1,140	NM	NM	NM
INJ-35	11/17/2016	0.53 I	769	3.7	1,170	1,340	263	NM	NM	NM	NM
INJ-36	11/18/2016	15.5	4,770	3.6	547	567	93.1	NM	NM	NM	NM
	06/20/2017	0.50 U	147	2.8	1,010	1,020	198	NM	NM	NM	NM
INJ-37	11/18/2016	8.2	897	4.7	105	115	18.4	NM	NM	NM	NM
INJ-38	06/20/2017	3.2	3,440	2.8	390	406	22.5	NM	NM	NM	NM

TABLE 5
GROUNDWATER ANALYTICAL SUMMARY
CONSTITUENTS OF CONCERN

Former Wyeth, Carolina Facility, Puerto Rico

Sample		Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,2-Dichloroethene (Total)*	Vinyl Chloride	Total Organic Carbon	Methane	Ethane	Ethene
Location	Date										
INJ-39	06/21/2017	**1.2**	**1,180**	**18.3**	**1,140**	**1,160**	**191**	NM	**505**	**7.2 I**	**2.1 I**

Notes:

All analytical results reported in micrograms per liter (µg/L); except TOC which is in milligrams per liter (mg/L).

MCL - Federal Maximum Contaminant Level from http://water.epa.gov/drink/contaminants/index.cfm#List as of October 11, 2010.

U - Indicates the compound was analyzed for but not detected at a concentration greater than the shown MDL.

I - The reported value is between the laboratory MDL and the laboratory practical quantitation limit (PQL).

MDL - Method Detection Limit

NM - Not Measured

Bold denotes a detection above laboratory method detection limit

Thick solid line indicates injection event took place in the area of the specified well between sampling events

[1]Duplicate sample

Shaded - Concentration is greater than MCL

*Total 1,2-Dichloroethene is for the *cis* and *trans* isomers.

The Federal MCL of 70 micrograms per liter is for the *cis* isomer as it is the more stringent value.

TABLE 6
GROUNDWATER CHEMISTRY SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Sample Location	Sample Date	Total Iron	Iron, Dissolved	Total Manganese	Manganese, Dissolved	Nitrate as N	Nitrite as N	Nitrogen, NO2 + NO3	Chloride	Sulfate	Biological Oxygen Demand	Chemical Oxygen Demand	Total Organic Carbon	Alkalinity (as $CaCO_3$)	pH	Temperature	Conductivity	Dissolved Oxygen	Turbidity	Oxidation Reduction Potential
MCL		300*	-	50*	-	10	1	-	250*	250*	-	-	-	-	-	-	-	-	-	-
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(S.U.)	(°C)	(µS/cm)	(mg/L)	(NTUs)	(mV)
MW-01S	02/02/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.94	28.98	951	0.61	< 10	88.1
	10/17/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.74	29.24	985	0.45	17.9	61.2
	09/12/2012	**46.1**	20.0 U	**156**	2.5 U	NM	NM	**0.92**	**73.8**	**53.5**	2.0 U	12.5 U	**1.2**	**291**	7.26 J	30.72	941	0.47	6.30 J	-54.4 J
MW-02S	02/02/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.65	28.89	1,464	0.77	> 1,000	52.3
	10/18/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.54	27.13	1,328	0.99	18.9	124.6
	09/11/2012	20.0 U	20.0 U	**116**	**116**	NM	NM	**0.18**	**165**	**37.5**	2.0 U	**27.6**	**1.7**	**385**	8.97 J	29.93	1,272	0.75	0.74 J	111.9 J
	04/17/2013	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.67	29.27	1,271	0.47	NM	125.0
	12/03/2013	**218**	**119**	**79.0**	**78.4**	**0.86**	0.072 U	**0.86**	**166**	**49.8**	NM	NM	**1.9**	**387**	6.66	27.63	1,311	0.57	10.2	82.0
	02/03/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1.8**	NM	6.65	27.45	1,300	0.43	1.00	107.5
	03/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1.9**	NM	6.72	27.17	1,325	0.39	10.5	-81.0
	07/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**2.87**	NM	6.79	29.64	966	1.64	20.40	65.4
	07/24/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1.51**	NM	6.82	29.62	1,287	0.23	1.45	-35.3
	07/31/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.04	28.25	1,231	2.40	1.06	-36.1
	08/07/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.65	27.64	1,294	0.35	18.4	31.2
	04/18/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	8,8	27.90	1,369	4.38	0.0	-240.0
	07/26/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.65	27.96	1,305	0.18	10.0	122.1
	06/19/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.39	28.90	1,179	3.47	1.86	-77.6
MW-02D	02/02/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.85	29.04	1,519	0.47	< 10	-18.9
	10/18/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.77	27.24	1,541	0.68	6.36	-55.7
	09/11/2012	**320**	20.0 U	**398**	390	NM	NM	0.025 U	**196**	**42.6**	**2.1**	**26.6**	**1.1**	**420**	9.02 J	29.24	1,558	0.20	0.65 J	-65.0 J
	04/17/2013	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.94	28.45	1,483	2.11	NM	-98.8
	12/03/2013	**435**	**304**	**397**	**394**	0.086 U	0.072 U	0.086 U	**194**	**52.4**	NM	NM	**1.4**	**453**	6.89	27.19	1,471	0.79	0.46	-125.7
	02/03/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1.0**	NM	6.89	27.67	1,491	0.6	1.37	6.6
	03/16/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1.1**	NM	6.94	27.54	1,525	0.66	0.07	-67.1
	07/26/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.75	27.33	1,351	0.21	10	23.3
	06/19/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.59	27.8	1,258	2.88	0.75	-218.0

TABLE 6
GROUNDWATER CHEMISTRY SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Sample Location	Sample Date	Total Iron	Iron, Dissolved	Total Manganese	Manganese, Dissolved	Nitrate as N	Nitrite as N	Nitrogen, NO2 + NO3	Chloride	Sulfate	Biological Oxygen Demand	Chemical Oxygen Demand	Total Organic Carbon	Alkalinity (as $CaCO_3$)	pH	Temperature	Conductivity	Dissolved Oxygen	Turbidity	Oxidation Reduction Potential
MCL		300*	-	50*	-	10	1	-	250*	250*	-	-	-	-	-	-	-	-	-	-
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(S.U.)	(°C)	(µS/cm)	(mg/L)	(NTUs)	(mV)
MW-03S	02/03/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.03	28.75	1,122	0.84	NM	-2.8
	10/18/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.68	29.92	934	0.64	47.6	34.5
	09/12/2012	20.0 U	20.0 U	**758**	**19.7**	NM	NM	**0.19**	**102**	**37.9**	2.0 U	**17.9 I**	**1.4**	**312**	6.97	30.41	1,018	0.32	0.49 J	60.9 J
	04/17/2013	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.67	29.52	953	0.55	152.8	91.3
	12/04/2013	**246**	20.0 U	**571**	**374**	**0.24**	**0.0066 I**	**0.24 I**	**92.3**	**40.7**	NM	NM	**1.5**	**260**	6.62	28.88	658	0.28	NM	69.3
MW-03D	02/03/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.97	28.73	1,538	0.45	NM	-37.0
	10/18/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.82	28.75	1,304	0.60	7.71	-40.0
	09/12/2012	**640**	**26.2 I**	**358**	**2.5 I**	NM	NM	0.025 U	**148**	**41.6**	2.0 U	**21.0**	**1.2**	**404**	7.29 J	28.89	1,300	0.37	2.92 J	-72.9 J
	04/17/2013	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.93	28.35	1,211	1.35	2.21	-26.0
	12/04/2013	**554**	**94.8**	**358**	**72.8**	0.029 U	0.0054 U	0.025 U	**149**	**46.5**	NM	NM	**1.2**	**384**	6.96	28.30	942	0.72	NM	-157.0
MW-04S	02/02/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.54	28.91	846	0.63	> 1,000	1.5
	10/17/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.37	29.77	707	0.91	16.8	122.6
	09/12/2012	**191**	20.0 U	**191**	**4.0 I**	NM	NM	**0.61**	**73.6**	**28.9**	2.0 U	12.5 U	0.50 U	**205**	6.78	3.02 J	715	0.44	3.02 J	95.3 J
MW-05S	02/02/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.45	28.53	887	0.56	NM	44.6
	10/17/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.26	29.68	661	0.83	15.1	134.5
	09/12/2012	**2,600**	20.0 U	**134**	**3.6 I**	NM	NM	**0.36**	**62.9**	**21.1**	2.0 U	**22.4**	**0.72 I**	**203**	6.86	30.15	656	0.38	1.23 J	-6.0 J
	12/05/2013	**720**	**876**	**97.7**	**106**	**0.42**	**0.011 I**	**0.42 I**	**61.9**	**24.7**	NM	NM	**1.1**	**233**	6.49	28.86	490	0.92	17.12	68.1
MW-06S	02/02/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.44	28.52	1,053	0.92	< 10	60.1
	10/18/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.41	29.17	892	0.57	5.89	62.7
	09/11/2012	**119**	20.0 U	**366**	**284**	NM	NM	**0.036 I**	**93.8**	**27.3**	**2.2**	**18.1 I**	**0.91 I**	**279**	8.59 J	29.85	890	0.32	3.95 J	201.8 J
	12/05/2013	**112**	20.0 U	**326**	**22.7**	**0.032 I**	**0.092 I**	**0.032 I**	**95.5**	**31.5**	NM	NM	**0.76 I**	**277**	6.50	28.97	657	0.26	3.72	48.6

TABLE 6
GROUNDWATER CHEMISTRY SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Sample Location	Sample Date	Total Iron	Iron, Dissolved	Total Manganese	Manganese, Dissolved	Nitrate as N	Nitrite as N	Nitrogen, NO2 + NO3	Chloride	Sulfate	Biological Oxygen Demand	Chemical Oxygen Demand	Total Organic Carbon	Alkalinity (as $CaCO_3$)	pH	Temperature	Conductivity	Dissolved Oxygen	Turbidity	Oxidation Reduction Potential
MCL		300*	-	50*	-	10	1	-	250*	250*	-	-	-	-	-	-	-	-	-	-
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(S.U.)	(°C)	(µS/cm)	(mg/L)	(NTUs)	(mV)
MW-07S	10/17/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.49	28.65	1,100	1.65	0.61	199.6
	09/11/2012	20.0 U	20.0 U	**16.0**	**15.1**	NM	NM	**0.12**	**153**	**33.4**	**2.5**	**19.8 I**	**1.8**	**327**	8.87 J	28.22	1,164	0.40	0.39 J	191.9 J
	04/17/2013	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.69	27.83	1,109	0.48	5.09	-195.6
	12/03/2013	20.0 U	20.0 U	**19.0**	**18.7**	**0.91**	0.072 U	**0.91**	**132**	**52.4**	NM	NM	**2.3**	**326**	6.68	27.46	1,137	0.49	1.11	87.3
	02/03/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**2.1**	NM	6.64	27.63	1,112	0.46	0.98	138.5
	03/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**2.0**	NM	6.76	27.28	1,206	0.24	0.03	-97.7
	07/10/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.68	27.93	1,188	0.03	NM	200.0
	07/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**57.6**	NM	6.88	27.91	5.28	0.52	4.29	26.6
		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.52	27.98	1,297	0.14	18.90	-78.6
	07/21/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**10.5**	NM	7.52	28.21	1,184	0.11	5.94	-132
	07/28/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**3.61**	NM	7.66	28.20	1,169	1.62	4.76	-83.1
	07/31/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.60	28.40	1,113	2.17	6.46	-91.2
	08/04/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.23	27.08	1,215	0.37	9.05	-148.4
	08/11/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.07	28.58	1,269	0.21	2.63	-52.1
	04/18/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.09	27.60	1,126	2.80	0.93	-154.3
	07/26/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**2.8**	**367**	7.26	27.65	1.2	0.22	10.00	-126.8
	06/19/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.21	27.80	1,177	2.45	0.71	-143.6
MW-07D	10/17/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.89	28.39	1,373	0.73	1.03	-51.3
	09/11/2012	**725**	20.0 U	**250**	**228**	NM	NM	0.025 U	**172**	**53.7**	2.0 U	**23.2**	**1.4**	**376**	9.09 J	27.86	1,443	0.29	0.97 J	-118.1 J
	04/17/2013	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.90	27.46	1,333	0.46	7.88	-179.1
	12/03/2013	**2,220**	**491**	**258**	**245**	0.086 U	0.072 U	0.086 U	**156**	**54.4**	NM	NM	**1.4**	**309**	7.12	27.13	1,088	0.25	31.7	-188.2
	02/03/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1.5**	NM	7.04	27.61	1,282	0.36	109	-133.5
	03/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1.2**	NM	7.18	26.51	1,218	0.41	6.97	-144.6
	07/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**3.28**	NM	6.88	27.90	5.28	0.52	4.29	26.6
	07/21/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**3.83**	NM	6.83	27.72	5.31	0.20	4.51	-78.6
	07/28/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**3.39**	NM	7.36	28.40	643	0.46	11.30	-106.5
	08/04/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.24	27.88	1,006	0.32	5.44	-1,056
	08/11/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.05	29.89	1,323	0.17	1.72	-78.6

TABLE 6
GROUNDWATER CHEMISTRY SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Sample Location	Sample Date	Total Iron	Iron, Dissolved	Total Manganese	Manganese, Dissolved	Nitrate as N	Nitrite as N	Nitrogen, NO2 + NO3	Chloride	Sulfate	Biological Oxygen Demand	Chemical Oxygen Demand	Total Organic Carbon	Alkalinity (as $CaCO_3$)	pH	Temperature	Conductivity	Dissolved Oxygen	Turbidity	Oxidation Reduction Potential
MCL		300*	-	50*	-	10	1	-	250*	250*	-	-	-	-	-	-	-	-	-	-
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(S.U.)	(°C)	(µS/cm)	(mg/L)	(NTUs)	(mV)
MW-08S	10/17/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.40	30.39	818	1.26	36.7	118.3
	09/12/2012	304	37.2 I	171	3.5 I	NM	NM	0.89	97.2	37.1	2.0 U	18.5 I	1.2	210	6.63	28.97	838	0.83	7.40 J	178.5 J
	12/05/2013	6,170	65.1	171	45.8	0.23	0.062	0.30 I	25.6	14.9	NM	NM	1.2	127	7.18	27.64	233	6.27	122	61.4
MW-09S	10/17/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.29	30.59	741	0.88	86.9	131.1
	09/11/2012	20.0 U	20.0 U	1,280	1,170	NM	NM	0.24	64.7	36.5	2.0 U	12.7 I	1.0 I	230	8.39 J	30.20	737	0.25	0.28 J	239.8 J
	12/04/2013	394	20.0 U	1,390	1,370	0.31	0.0091 I	0.31 I	63.9	39	NM	NM	0.94 I	219	6.37	29.06	539	0.37	6.02	0.5
MW-10S	12/03/2013	357	132	389	389	0.66	0.036 U	0.66	84.3	43.1	NM	NM	1.8	197	6.43	29.34	771	0.33	NM	56.1
MW-11S	12/03/2013	1,970	395	708	705	2.6	0.036 U	2.7	85.9	49.9	NM	NM	2.3	226	6.52	28.31	847	0.24	18.9	75.8
MW-12S	12/02/2013	239	20.0 U	1,170	1,260	1.3	0.072 U	1.3	143	50.2	NM	NM	1.2	305	6.68	28.73	1,103	0.28	6.81	33.7
MW-13S	12/02/2013	421	20.0 U	253	259	1.4	0.082	1.5	58.7	106	NM	NM	2.5	178	6.87	26.82	873	0.40	16.8	36.4
	03/16/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	4.9	NM	7.23	28.36	956	0.26	21.2	1.66
	04/19/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.79	27.1	1,623	1.01	20.2	-265.1
	07/25/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.33	29	1,600	0.17	25	-67.4
	06/19/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	13.36	28.6	13.24	3.91	1.18	-422
MW-14S	12/04/2013	2,380	35.1 I	1,180	1,080	0.58	0.046 I	0.63	23.3	42.6	NM	NM	1.8	185	6.37	29.56	419	1.03	NM	40.6
MW-15S	12/02/2013	4,660	20.0 U	2,240	1,940	0.086 U	0.072 U	0.086 U	74.2	82.7	NM	NM	3.3	517	7.08	27.23	1,426	1.02	10.5	10.1

TABLE 6
GROUNDWATER CHEMISTRY SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Sample Location	Sample Date	Total Iron	Iron, Dissolved	Total Manganese	Manganese, Dissolved	Nitrate as N	Nitrite as N	Nitrogen, NO2 + NO3	Chloride	Sulfate	Biological Oxygen Demand	Chemical Oxygen Demand	Total Organic Carbon	Alkalinity (as $CaCO_3$)	pH	Temperature	Conductivity	Dissolved Oxygen	Turbidity	Oxidation Reduction Potential
MCL		300*	-	50*	-	10	1	-	250*	250*	-	-	-	-	-	-	-	-	-	-
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(S.U.)	(°C)	(µS/cm)	(mg/L)	(NTUs)	(mV)
MW-16S	02/03/2015	NM	NM	NM	NM	**0.10**	0.025 U	**0.10**	**115**	**41.3**	NM	NM	**2.5**	NM	6.64	26.43	1,344	0.53	1.04	98.0
	03/16/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**2.6**	NM	6.99	26.65	1,373	0.28	18.7	-125.3
	07/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**2.78**	NM	6.93	27.12	1,383	0.33	1.76	38.7
	07/24/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**2.17**	NM	6.90	27.29	1,378	0.38	4.55	-34.1
	07/31/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.40	27.69	1,449	2.50	1.34	-87.1
	08/07/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.89	27.26	1,393	0.29	6.98	-29.8
	04/19/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.83	27.70	1,592	0.81	0.13	-563.1
	07/26/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**3.9**	**558**	6.75	29.33	1,471	0.42	10.00	-72.1
	06/19/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	14.95	27.6	1,360	1.19	6.94	1.19
	07/26/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**3.7**	**567**	7.62	28.1	1,354	0.76	8.16	-367
MW-17S	02/04/2015	NM	NM	NM	NM	0.025 U	0.025 U	0.025 U	**64.9**	**32.2**	NM	NM	**4.2**	NM	6.68	27.48	1,504	0.38	9.29	81.9
	03/16/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**7.7**	NM	6.78	27.59	2,110	0.56	2.62	-179.1
	07/07/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.68	29.61	1,866	0.30	0.78	-100.3
	07/08/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1,629**	NM	NM	NM	NM	NM	NM	NM
	07/13/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1,652**	NM	6.40	30.57	4,872.0	0.12	7.7	-85.5
	07/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1,479**	NM	6.49	35.14	4,564	0.96	NM	-67.1
	07/24/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1,522**	NM	6.16	32.87	3,840	0.38	37.3	-119.8
	08/07/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.52	29.47	4,004	0.20	10.4	-110.7
	07/27/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**28.4**	**1,330**	6.60	30.70	2,895	0.19	10.0	-112.5
	06/20/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	11.70	27.9	2,417	4.40	6.1	321.0
MW-18S	02/04/2015	NM	NM	NM	NM	0.025 U	0.025 U	0.025 U	NM	NM	NM	NM	**3.2**	**643**	6.78	28.08	1,494	0.80	0.0	31.3
	03/16/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**4.3**	NM	7.30	27.79	1.83	0.59	10.7	160
	07/07/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.75	29.03	1,607	0.39	11.4	-73.3
	07/08/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1,290**	NM	NM	NM	NM	NM	NM	NM
	07/13/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1,269**	NM	6.51	29.26	2,195	0.87	6.3	-209
	07/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**892**	NM	6.69	30.76	4,203	0.56	15.7	-80.4
	07/24/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**649**	NM	6.66	30.53	3,872	1.20	9.00	-114.3
	07/31/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	8.16	28.74	856	1.40	7.92	-103.0
	08/07/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.69	29.75	3,645	0.07	5.99	-90.7
	06/19/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	13.40	28.4	1,930	5.92	9.40	-407.0

TABLE 6
GROUNDWATER CHEMISTRY SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Sample Location	Sample Date	Total Iron	Iron, Dissolved	Total Manganese	Manganese, Dissolved	Nitrate as N	Nitrite as N	Nitrogen, NO2 + NO3	Chloride	Sulfate	Biological Oxygen Demand	Chemical Oxygen Demand	Total Organic Carbon	Alkalinity (as $CaCO_3$)	pH	Temperature	Conductivity	Dissolved Oxygen	Turbidity	Oxidation Reduction Potential
MCL		300*	-	50*	-	10	1	-	250*	250*	-	-	-	-	-	-	-	-	-	-
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(S.U.)	(°C)	(µS/cm)	(mg/L)	(NTUs)	(mV)
MW-19S	07/07/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**3.43**	NM	6.98	30.06	1,422	1.61	3.6	459.6
	07/10/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**286**	NM	NM	NM	NM	NM	NM	NM
	07/13/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**225**	NM	7.02	29.40	1,920	0.42	11.1	-87.8
	07/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**149**	NM	6.99	30.75	1,737	0.30	4.54	-87.6
	07/24/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**91.9**	NM	7.04	30.09	1,556	0.87	3.49	-113.9
	07/31/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.07	28.81	1,458	1.49	4.84	-106.5
	08/07/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.77	28.25	1,477	0.08	5.75	-99.6
	04/19/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.65	27.80	1,667	1.90	1.20	-345.2
MW-20S	07/07/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1.64**	NM	6.93	29.59	1,327	0.35	1.81	194.0
	07/10/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**216**	NM	NM	NM	NM	NM	NM	NM
	07/13/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**35.7**	NM	6.97	28.23	1,290	0.27	10.6	-7.2
	07/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**6.36**	NM	6.92	31.73	1,257	0.30	29.9	-129.4
	07/24/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**8.55**	NM	7.05	30.35	1,252	0.62	4.23	-134.1
	07/31/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.18	27.71	1,151	0.82	13.1	-96.8
	08/07/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.90	28.09	1,384	0.10	5.49	-107
	04/19/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.58	27.80	1,526	1.97	15.40	-399.8
	07/27/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.80	30.26	1,523	0.34	10.00	-49.2
MW-21S	07/10/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**2.16**	NM	6.60	27.59	1,199	4.20	1.51	327.6
	07/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**131**	NM	6.96	29.35	1,736	0.45	33.6	-9.1
	07/21/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**6.47**	NM	6.92	27.94	1,425	0.12	9.43	-118.2
	07/28/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**3.10**	NM	6.97	27.92	1,334	0.57	3.83	-110.2
	08/04/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.99	28.33	1,308	0.74	9.80	-67.0
	08/11/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.73	28.40	1,300	0.31	2.85	-28.1
	04/18/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.08	27.50	1,267	3.15	0.77	-181.7
	07/26/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.91	27.62	1,255	0.25	10.00	-18.1
	06/19/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.28	27.8	1,079	2.01	0.07	-129.6
MW-23S	07/27/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**370**	6.64	29.36	1,338	0.40	10.00	281.6
MW-24S	04/20/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.88	27.8	1,183	1.20	8.30	-3337.2
	07/27/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.65	29.23	1,130	1.27	10.00	199.1

TABLE 6
GROUNDWATER CHEMISTRY SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Sample Location	Sample Date	Total Iron	Iron, Dissolved	Total Manganese	Manganese, Dissolved	Nitrate as N	Nitrite as N	Nitrogen, NO2 + NO3	Chloride	Sulfate	Biological Oxygen Demand	Chemical Oxygen Demand	Total Organic Carbon	Alkalinity (as $CaCO_3$)	pH	Temperature	Conductivity	Dissolved Oxygen	Turbidity	Oxidation Reduction Potential
MCL		300*	-	50*	-	10	1	-	250*	250*	-	-	-	-	-	-	-	-	-	-
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(S.U.)	(°C)	(µS/cm)	(mg/L)	(NTUs)	(mV)
MW-26	06/21/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	10.40	28.4	1,158	4.22	3.90	270.1
	07/27/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**2.0**	**345**	6.96	28.8	1,081	0.33	1.26	-361.1
MW-29S	06/20/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	10.25	29.6	1,269	2.71	1.92	271.9
MW-31S	06/19/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.32	27.4	1,036	2.81	1.63	18.3
	07/26/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**4.1**	**436**	6.14	27.3	1,044	0.62	0.18	-298
INJ-1	07/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**488**	NM	6.81	28.64	2,348	0.16	27.9	-127.1
	07/21/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**452**	NM	6.20	28.0	5,221	0.19	19.2	-129.7
	07/28/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**92.6**	NM	7.40	28.13	1,250	0.70	10.5	-94.9
	08/04/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.09	27.89	1,131	0.21	7.55	-90.5
	08/11/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.89	29.20	1,353	0.15	14.40	-91.6
INJ-2	07/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**775**	NM	6.62	28.49	2,664	0.29	215	-77.9
	07/21/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**703**	NM	6.39	28.47	2,666	0.25	54.7	-122.7
	07/28/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**556**	NM	6.74	28.13	2,089	0.26	20.1	-95.9
	07/31/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.06	28.75	1,864	2.35	21.0	-769
	08/04/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.84	28.45	1,720	0.30	59.2	-79.6
	08/11/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.53	28.42	2,677	0.15	99.0	-110
INJ-3	07/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**5,145**	NM	6.15	33.24	4,856	0.22	9.14	-70.3
	07/21/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**739**	NM	6.44	28.43	3,026	0.11	31.6	-131.8
	07/28/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**231**	NM	6.99	28.68	1,827	1.01	13.6	-85.0
	08/04/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.95	28.09	1,588	0.30	7.0	-61.3
	08/11/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.96	29.03	1,523	0.15	10.0	-108.0
	07/28/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**8.2**	NM	6.85	27.83	1,320	1.35	10.0	-48.7

TABLE 6
GROUNDWATER CHEMISTRY SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Sample Location	Sample Date	Total Iron	Iron, Dissolved	Total Manganese	Manganese, Dissolved	Nitrate as N	Nitrite as N	Nitrogen, NO2 + NO3	Chloride	Sulfate	Biological Oxygen Demand	Chemical Oxygen Demand	Total Organic Carbon	Alkalinity (as $CaCO_3$)	pH	Temperature	Conductivity	Dissolved Oxygen	Turbidity	Oxidation Reduction Potential
MCL		300*	-	50*	-	10	1	-	250*	250*	-	-	-	-	-	-	-	-	-	-
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(S.U.)	(°C)	(µS/cm)	(mg/L)	(NTUs)	(mV)
INJ-4	07/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**2.90**	NM	NM	NM	NM	NM	NM	NM
	07/21/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1.64**	NM	6.75	29.25	1,405	0.42	4.47	-115.1
	07/28/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1.37**	NM	6.79	27.69	1,383	0.46	4.75	-61.7
	08/04/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.84	27.95	1,374	1.10	0.82	-79.0
	08/11/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.73	28.88	1,396	0.16	0.28	-47.0
	04/19/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.52	26.80	832	3.93	37.8	-425.3
	07/27/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**13.4**	**556**	6.65	27.20	1,350	0.61	3.66	-352.3
INJ-6	04/19/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.81	23.3	2,049	2.69	15.8	-432.2
	07/27/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.48	28.3	1,374	0.96	0.53	-322.3
INJ-7	07/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**116**	NM	6.29	31.9	3,787	0.12	>1000	-76.4
	08/07/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.77	29.53	2,650	0.09	9.78	-151.7
INJ-8	07/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**6,110**	NM	6.19	32.91	1,525	1.47	>1000	-64.4
	08/07/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.67	30.16	3,117	0.13	41.1	-142.5
INJ-9	07/13/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1,041**	NM	6.71	29.89	5,892	0.52	45.1	-127.1
	07/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**470**	NM	5.56	30.26	1,453	0.46	>1000	41.7
	07/24/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**297**	NM	6.56	29.96	2,232	0.29	20.2	-119.3
	07/31/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.00	29.52	2,048	0.48	4.69	-152
	08/07/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.75	29.49	3,125	0.13	14.8	-151.5
	04/19/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.95	28.10	1,819	1.47	17.9	-361.8
INJ-10	07/13/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1,654**	NM	6.51	37.08	4,060	1.47	182	-92.9
	07/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**591**	NM	6.09	30.80	1,667	0.48	>1000	-69.5
	07/24/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1,231**	NM	6.49	33.20	4,448	0.15	56.6	-126.6
	07/31/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.51	31.60	3,512	2.70	43.4	-146.3
	08/07/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.63	29.54	4,540	0.15	8.55	-155.1
	04/19/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.81	28.30	2,338	2.75	40.90	-350.2

TABLE 6
GROUNDWATER CHEMISTRY SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Sample Location	Sample Date	Total Iron	Iron, Dissolved	Total Manganese	Manganese, Dissolved	Nitrate as N	Nitrite as N	Nitrogen, NO2 + NO3	Chloride	Sulfate	Biological Oxygen Demand	Chemical Oxygen Demand	Total Organic Carbon	Alkalinity (as $CaCO_3$)	pH	Temperature	Conductivity	Dissolved Oxygen	Turbidity	Oxidation Reduction Potential
MCL		300*	-	50*	-	10	1	-	250*	250*	-	-	-	-	-	-	-	-	-	-
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(S.U.)	(°C)	(µS/cm)	(mg/L)	(NTUs)	(mV)
INJ-11	07/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1,254**	NM	6.32	31.04	3,934	0.55	>1000	-112.8
	08/07/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	5.91	30.29	2,077	0.23	74.0	-199.3
INJ-12	07/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1,300**	NM	6.11	31.2	1,995	0.52	>1000	-111.4
	08/07/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.61	27.98	4,103	0.28	10.0	-109.7
INJ-13	07/25/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.35	29.07	2,320	0.1	200	-100.4
INJ-14	07/25/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.55	30.54	2,956	0.14	9	311.4
INJ-15	07/10/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.57	27.93	1,220	0.41	4.13	416.9
	07/17/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1,403**	NM	6.58	29.87	4,433	0.57	40.2	-69.6
	07/21/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**734**	NM	6.34	28.95	2,688	0.44	34.0	-127.3
	07/28/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**223**	NM	6.46	23.52	1,661	2.35	8.55	-132
	07/31/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.06	28.72	1,541	2.94	19.2	-170.4
	08/04/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.79	28.64	1,372	0.42	5.12	-120.5
	08/11/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.88	29.08	1,368	0.21	3.74	-101.0
INJ-16	04/18/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**10.6**	NM	7.2	27.8	1,087	3.18	3.97	-1750
	07/25/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.85	28.15	1,043	1.17	10	-53
	07/27/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**3.7**	**389**	7.68	29.2	1,064	2.30	0.28	-380.6
INJ-18	04/19/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.28	28.38	1,128	1.12	12.2	-465
	07/27/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**6.9**	**410**	7.17	29.7	1,071	0.66	1.08	-414.3
INJ-22	07/25/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.80	26.79	1,481	0.29	10	-98
	07/27/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**2.6**	**439**	6.82	27	1,263	1.10	0.29	-357.1
INJ-24	04/20/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	8.49	28.2	1,660	1.37	7.2	-390.7
	07/27/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**26.6**	NM	6.33	29.31	1,697	0.44	10	-55.9
	06/19/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	13.16	27.4	11.57	2.13	1.20	-323.4

TABLE 6
GROUNDWATER CHEMISTRY SUMMARY

Former Wyeth, Carolina Facility, Puerto Rico

Sample Location	Sample Date	Total Iron	Iron, Dissolved	Total Manganese	Manganese, Dissolved	Nitrate as N	Nitrite as N	Nitrogen, NO2 + NO3	Chloride	Sulfate	Biological Oxygen Demand	Chemical Oxygen Demand	Total Organic Carbon	Alkalinity (as $CaCO_3$)	pH	Temperature	Conductivity	Dissolved Oxygen	Turbidity	Oxidation Reduction Potential
MCL		300*	-	50*	-	10	1	-	250*	250*	-	-	-	-	-	-	-	-	-	-
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(S.U.)	(°C)	(µS/cm)	(mg/L)	(NTUs)	(mV)
INJ-25	07/25/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.61	29.48	1,025	0.27	8	-60.5
	07/27/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**5.1**	**693**	6.78	27.9	1,497	0.63	1.27	-328.1
INJ-27	07/26/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.69	29.99	1,449	0.8	10	290.4
INJ-28	07/26/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.75	28.85	1,446	2.56	10	251.6
INJ-29	07/26/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.29	27.68	1,064	1.79	10	208.7
INJ-30	07/27/2016	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.41	28.78	1,331	4.2	10	277.6
INJ-34	07/26/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	**1,140**	**555**	6.88	29.4	1,507	0.90	8.11	-121.5
INJ-36	06/19/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	11.41	28.8	1,701	5.71	14.3	-326.1
INJ-38	06/19/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	12.87	27.7	1,115	1.80	3.20	305.1
INJ-39	06/21/2017	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	12.71	27.8	1,113	1.79	2.90	307.9

Notes:
mV - millivolts
* - secondary MCL (SMCL)
µg/L - micrograms per liter
mg/L - milligrams per liter
S.U. - standard units
°C - degrees Celsius
µS/cm - microsiemens per centimeter
NTUs - nephelometric turbidity units

U - Indicates the compound was analyzed for but not detected at a concentration greater than the shown MDL.
I - The reported value is between the laboratory MDL and the laboratory practical quantitation limit (PQL).
J - Calibration result was outside the acceptable criteria for standard range
Thick solid line indicates injection event took place in the area of the specified well between sampling events
MDL - Method Detection Limit
NM - Not Measured
Bold denotes a detection above laboratory method detection limit.
Shaded - Concentration is greater than MCL
MCL - Federal Maximum Contaminant Level from http://water.epa.gov/drink/contaminants/index.cfm#List as of October 11, 2010.

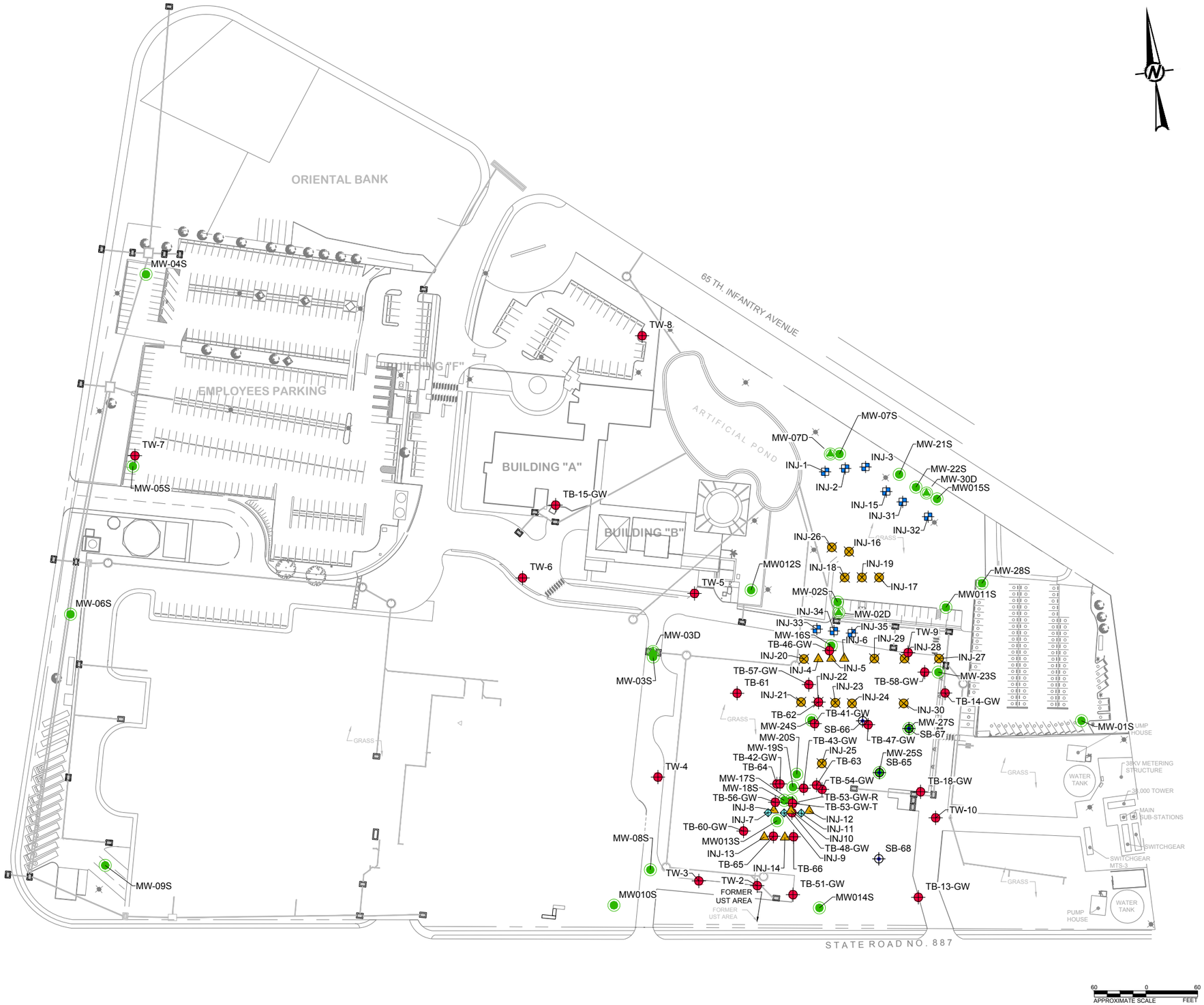
TABLE 7
GROUNDWATER ANALYTICAL SUMMARY (MICROBIAL DATA)

Former Wyeth, Carolina Facility, Puerto Rico

Well ID	Date Sampled	Dehalococcoides (cells/mL)	tceA Reductase (cells/mL)	BAV1 Vinyl Chloride Reductase (cells/mL)	Vinyl Chloride Reductase (cells/mL)
MW-07S	6/20/2017	12,000	20,100	0.4 U	29,400
MW-16S	6/20/2017	25	9	0.4 U	56.5
	7/26/2017	24,300	1,880	0.5 U	33,000
MW-17S	6/21/2017	14,100	3,390	0.1 J	49,300
MW-21S	6/20/2017	14,600	9,800	0.5 U	21,200
MW-29S	6/21/2017	18.8	6.8	0.4 U	3.8
MW-26	6/21/2017	8.4	10.1	0.4 U	5.6
MW-31S	7/26/2017	178	102	0.5 U	212
INJ-5	7/26/2017	21400	5930	0.5 U	55,500
INJ-34	7/26/2017	18	2.9	0.7 U	36.3
INJ-39	6/21/2017	9.6	7.5	0.4 U	3.3

Notes:
mL - milliliter

FIGURES



LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- BEDROCK INJECTION TREATMENT WELL (SCREEN INTERVAL ~20 TO 40 FEET-BGS)
- OVERBURDEN INJECTION TREATMENT WELL (SCREEN INTERVAL ~40 TO 50 FEET BGS)
- OVERBURDEN INJECTION TREATMENT WELL (SCREEN INTERVAL ~50 TO 60 FEET BGS)
- INJECTION TREATMENT WELL LOCATION (OVERBURDEN)
- TEMPORARY MONITORING WELL
- SOIL BORING LOCATION

NOTE(S)

1.) ALL SITE BUILDINGS WITH THE EXCEPTION OF BUILDINGS A, B, AND F WERE DEMOLISHED IN 2013.

REFERENCE(S)

1.) BASEMAP TAKEN FROM WYETH - CAROLINA, FILE NAME "C-SITE-004.dwg", TITLED "STORM WATER PLAN", DATED 08/18/2008.

CLIENT
Pfizer

CONSULTANT

Golder Associates

YYYY-MM-DD	2017-08-30
DESIGNED	JWS
PREPARED	BCL
REVIEWED	KAB
APPROVED	JP

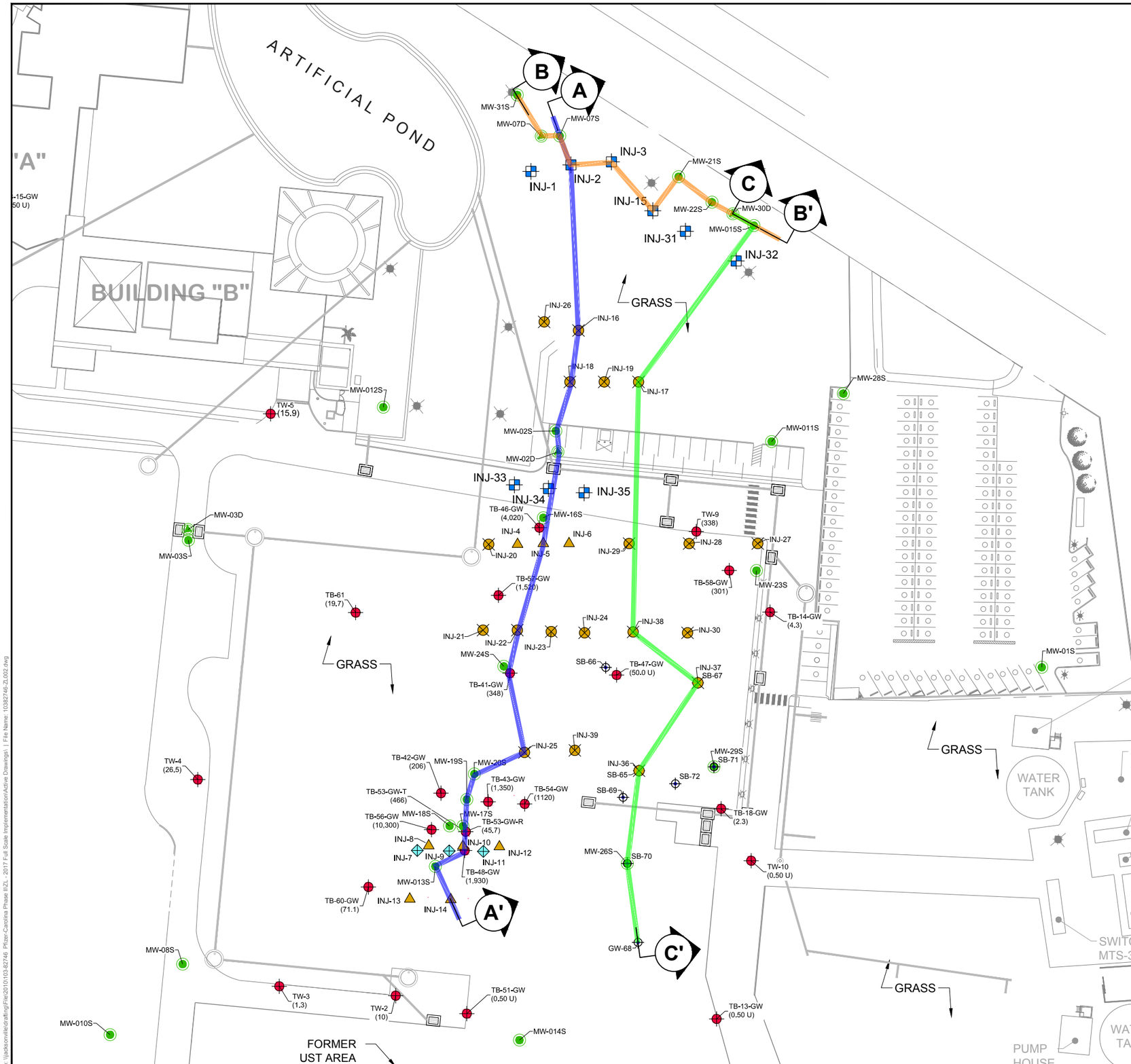
PROJECT
Pfizer-CAROLINA

TITLE
MONITORING WELL AND INJECTION WELL LOCATIONS

PROJECT NO.	Control No.	REV.	FIGURE
103-82746	10382746-ZL001		1

Path: \\jacksonville\drafting\File\2010\103-82746 Pfizer-Carolina Phase II\ZL - 2017 Full Scale Implementation\Active Drawings\ | File Name: 10382746-ZL001.dwg

0 1in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D



LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- TEMPORARY MONITORING WELL (TMW)
- (703) TMW TCE CONCENTRATION (ug/L)
- BEDROCK INJECTION WELL (SCREEN INTERVAL ~20 TO 40 FEET-BGS)
- OVERBURDEN INJECTION WELL (SCREEN INTERVAL ~40 TO 50 FEET BGS)
- OVERBURDEN INJECTION WELL (SCREEN INTERVAL ~50 TO 60 FEET BGS)
- OVERBURDEN INJECTION WELL LOCATION (VARIOUS SCREEN INTERVAL)
- SOIL BORING LOCATION

REFERENCE(S)

1.) BASE MAP TAKEN FROM CADD FILE ORIGINALLY PREPARED BY WYETH - CAROLINA TITLED "STORM WATER PLAN", FILE NAME "C-SITE-004.dwg", REVISION 2, DATED 05/11/2010. BASE MAP MODIFIED BY GOLDER ASSOCIATES ON 02/06/2014 TO REFLECT EXISTING SITE CONDITIONS AS PER AERIAL PHOTOGRAPHS PROVIDED BY PFIZER INC., DATED 11/01/2013. ACTUAL SITE CONDITIONS MAY VARY.

30 0 30
APPROXIMATE SCALE FEET

CLIENT
Pfizer

CONSULTANT

Golder Associates

YYYY-MM-DD	2017-08-30
DESIGNED	JWS
PREPARED	BCL
REVIEWED	KAB
APPROVED	JP

PROJECT
Pfizer-CAROLINA

TITLE
LITHOLOGIC CROSS SECTION LOCATION MAP

PROJECT NO.	Control No.	REV.	FIGURE
103-82746	10382746-ZL002		2

Path: \\jacksonville\drafting\File\2010\103-82746 Pfizer-Carolina Phase II\ZL - 2017 Full Scale Implementation\Active Drawings\ | File Name: 10382746-ZL002.dwg

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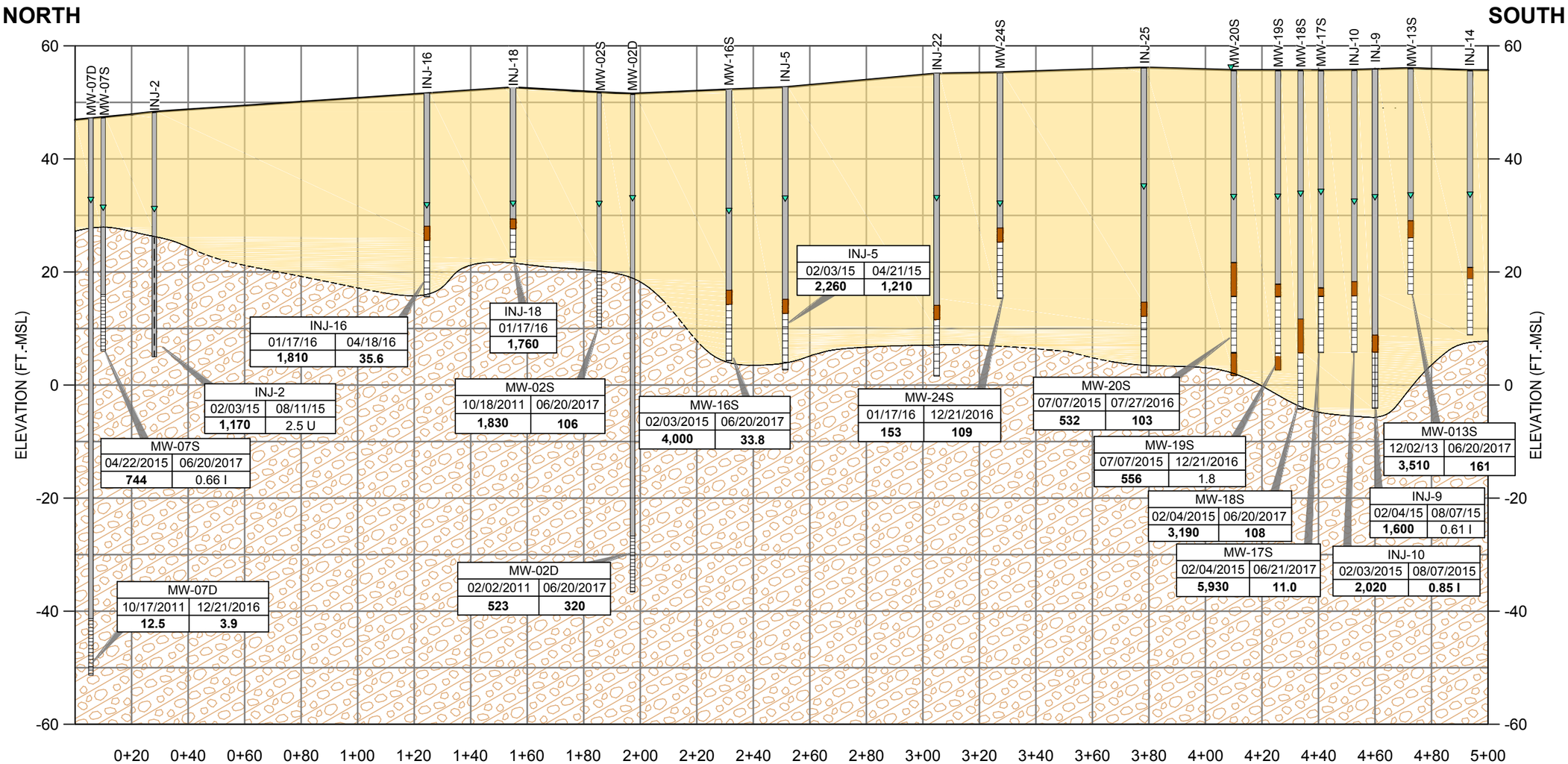


LEGEND

- SAPROLITE (WEATHERED ROCK)
- VOLCANOCLASTIC BEDROCK
- SAND PACK
- 2-INCH DIAMETER PVC SCREEN
- 6-INCH OPEN BOREHOLE
- DASHED LINE WHERE CONTACT IS INFERRED

INJ-2	
02/03/15	08/11/15
3	3

Sample ID
Date Sampled
Trichloroethene (TCE) (ug/L)
PRE
POST

- APPROXIMATE GROUNDWATER ELEVATION (ON LAST SAMPLING DATE)

NOTE(S)

1.) TCE = TRICHLOROETHENE.
2.) ug/L = MICROGRAMS PER LITER.
3.) U = INDICATES THAT THE COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE VALUE SHOWN IS THE METHOD DETECTION LIMIT.
4.) I - THE REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND THE LABORATORY PRACTICAL QUANTITATION LIMIT.
5.) NM = NOT MEASURED
6.) MAXIMUM CONTAMINANT LEVEL (MCL) FOR TCE IS 5 ug/L.
7.) PRE = TCE CONCENTRATION PRIOR TO IMPLEMENTATION OF REMEDIAL ACTIVITIES (INJECTIONS).
8.) POST = TCE CONCENTRATION SINCE IMPLEMENTING REMEDIAL ACTIVITIES (INJECTIONS).
9.) FIRST INJECTION EVENT WAS FEBRUARY 2015.

HORIZONTAL SCALE: 40 0 40 FEET

VERTICAL SCALE: 20 0 20 FEET

CLIENT
Pfizer

PROJECT
Pfizer-CAROLINA

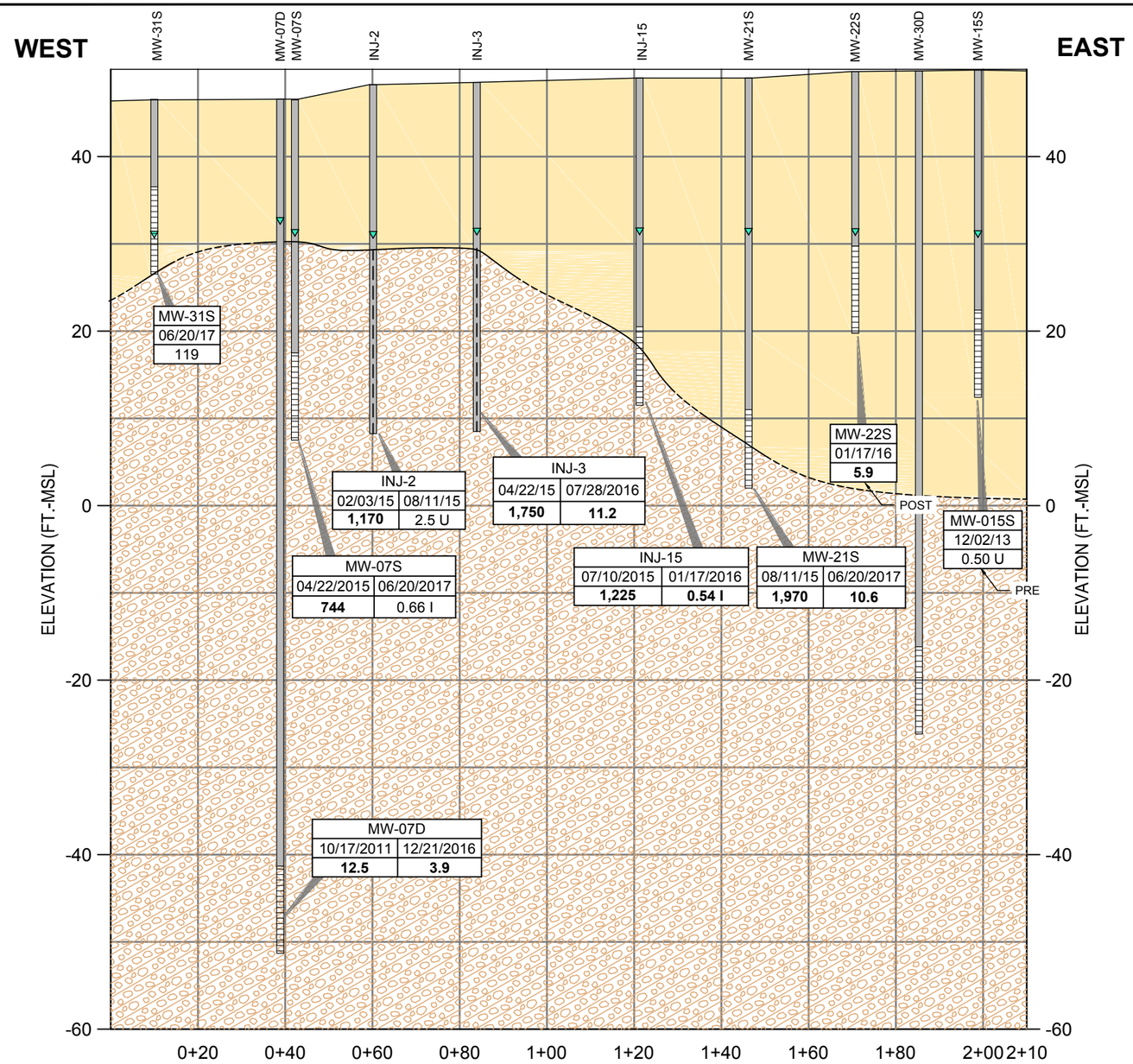
CONSULTANT
Golder Associates

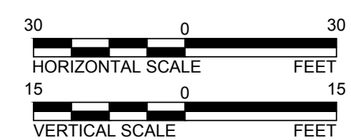
YYYY-MM-DD	2017-08-30
DESIGNED	JWS
PREPARED	BCL
REVIEWED	KAB
APPROVED	JP

TITLE
LITHOLOGIC CROSS SECTION A-A'

PROJECT NO.	Control No.	REV.	FIGURE
103-82746	10382746-ZL002AC		2A

Path: \\jacksonville\drafting\File\2010\103-82746 Pfizer-Carolina Phase II\ZL - 2017 Full Scale Implementation\Active Drawings\ | File Name: 10382746-ZL002AC.dwg
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
1 in





LEGEND

- SAPROLITE (WEATHERED ROCK)
- VOLCANOCLASTIC BEDROCK
- SAND PACK
- 2-INCH DIAMETER PVC SCREEN
- 6-INCH OPEN BOREHOLE
- DASHED LINE WHERE CONTACT IS INFERRED

INJ-2	
02/03/15	08/11/15
3	3

Sample ID
Date Sampled
Trichloroethene (TCE) (ug/L)
PRE
POST

- APPROXIMATE GROUNDWATER ELEVATION (ON LAST SAMPLING DATE)

NOTE(S)

1.) TCE = TRICHLOROETHENE.
2.) ug/L = MICROGRAMS PER LITER.
3.) U = INDICATES THAT THE COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE VALUE SHOWN IS THE METHOD DETECTION LIMIT.
4.) I - THE REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND THE LABORATORY PRACTICAL QUANTITATION LIMIT.
5.) NM = NOT MEASURED
6.) MAXIMUM CONTAMINANT LEVEL (MCL) FOR TCE IS 5 ug/L.
7.) PRE = TCE CONCENTRATION PRIOR TO IMPLEMENTATION OF REMEDIAL ACTIVITIES (INJECTIONS).
8.) POST = TCE CONCENTRATION SINCE IMPLEMENTING REMEDIAL ACTIVITIES (INJECTIONS).
9.) FIRST INJECTION EVENT WAS FEBRUARY 2015.

CLIENT
Pfizer

PROJECT
Pfizer-CAROLINA

CONSULTANT
Golder Associates

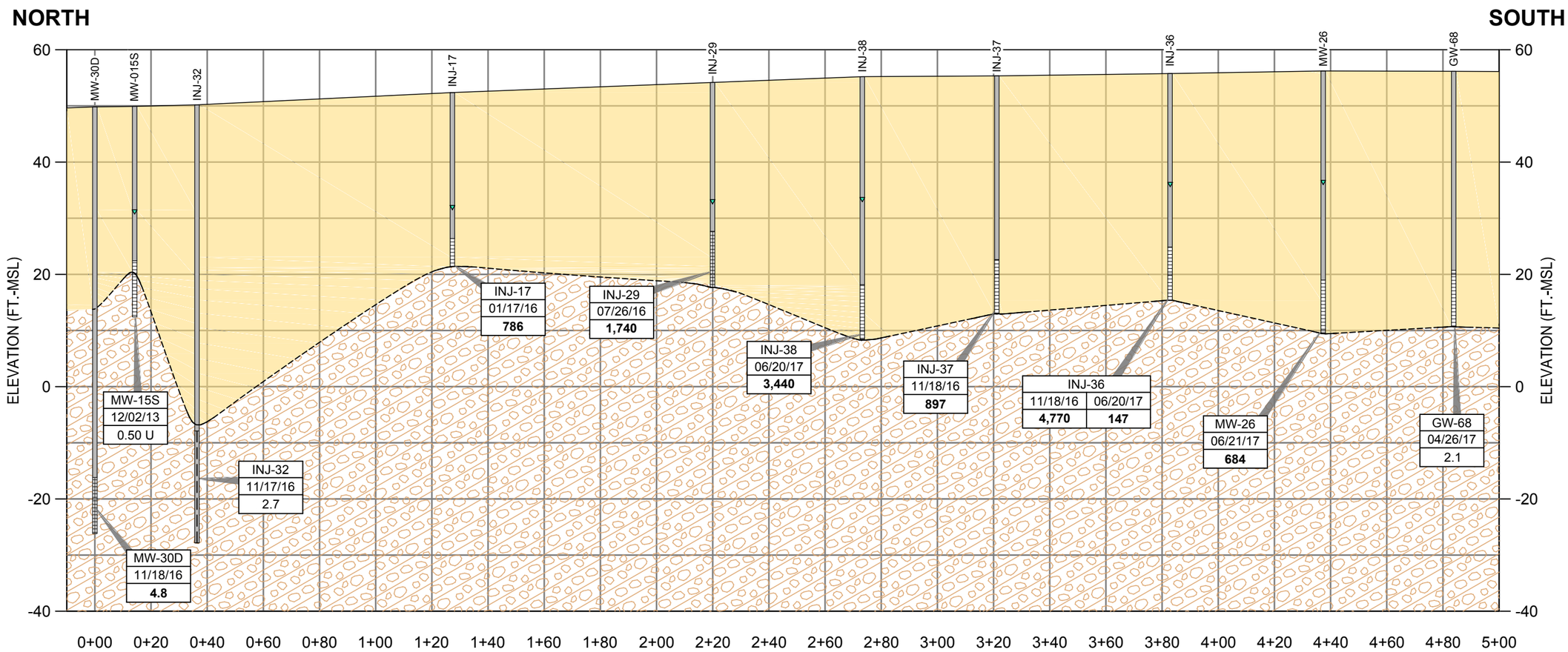
YYYY-MM-DD	2017-08-30
DESIGNED	JWS
PREPARED	BCL
REVIEWED	KAB
APPROVED	JP

TITLE
LITHOLOGIC CROSS SECTION B-B'

PROJECT NO.	Control No.	REV.	FIGURE
103-82746	10382746-ZL002AC		2B

Path: \\jacksonville\drafting\File\2010\103-82746 Pfizer-Carolina Phase II\2L - 2017 Full Scale Implementation\Active Drawings\ | File Name: 10382746-ZL002AC.dwg

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



LEGEND

- SAPROLITE (WEATHERED ROCK)
- VOLCANOCLASTIC BEDROCK
- SAND PACK
- 2-INCH DIAMETER PVC SCREEN
- 6-INCH OPEN BOREHOLE
- DASHED LINE WHERE CONTACT IS INFERRED
- INJ-2 — Sample ID; 02/03/15 — Date Sampled; 3 — Trichloroethene (TCE) (ug/L); PRE; 08/11/15 — Date Sampled; 3 — Trichloroethene (TCE) (ug/L); POST
- APPROXIMATE GROUNDWATER ELEVATION (ON LAST SAMPLING DATE)

NOTE(S)

1.) TCE = TRICHLOROETHENE.
2.) ug/L = MICROGRAMS PER LITER.
3.) U = INDICATES THAT THE COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE VALUE SHOWN IS THE METHOD DETECTION LIMIT.
4.) I - THE REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND THE LABORATORY PRACTICAL QUANTITATION LIMIT.
5.) NM = NOT MEASURED
6.) MAXIMUM CONTAMINANT LEVEL (MCL) FOR TCE IS 5 ug/L.
7.) PRE = TCE CONCENTRATION PRIOR TO IMPLEMENTATION OF REMEDIAL ACTIVITIES (INJECTIONS).
8.) POST = TCE CONCENTRATION SINCE IMPLEMENTING REMEDIAL ACTIVITIES (INJECTIONS).
9.) FIRST INJECTION EVENT WAS FEBRUARY 2015.

HORIZONTAL SCALE: 40 0 40 FEET

VERTICAL SCALE: 20 0 20 FEET

CLIENT
Pfizer

PROJECT
Pfizer-CAROLINA

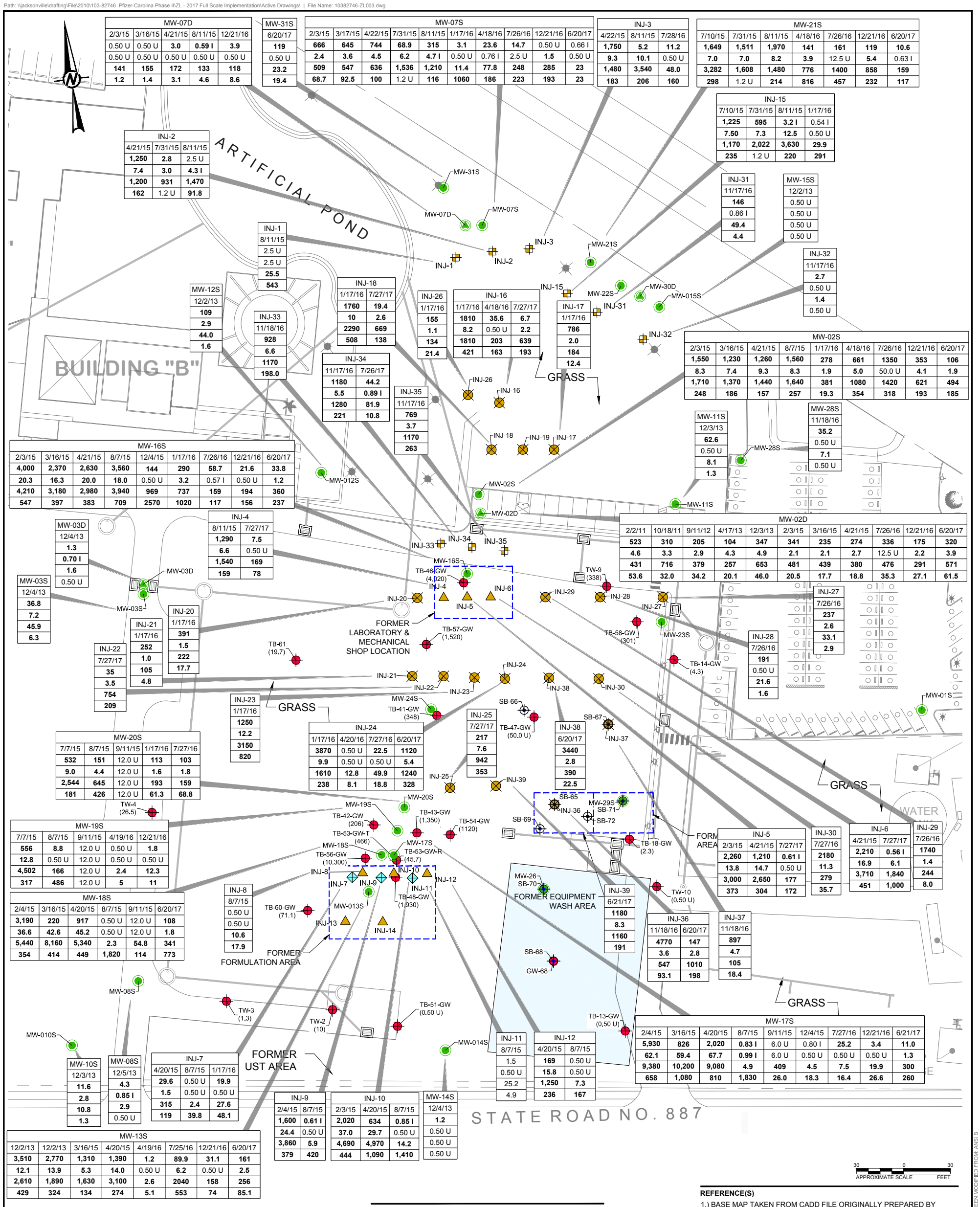
CONSULTANT
Golder Associates

YYYY-MM-DD	2017-08-30
DESIGNED	JWS
PREPARED	BCL
REVIEWED	KAB
APPROVED	JP

TITLE
LITHOLOGIC CROSS SECTION C-C'

PROJECT NO.	Control No.	REV.	FIGURE
103-82746	10382746-ZL002AC		2C

Path: \\jacksonville\drafting\File\2010\103-82746 Pfizer-Carolina Phase II\ZL - 2017 Full Scale Implementation\Active Drawings\ | File Name: 10382746-ZL002AC.dwg
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



MW-07D				
2/3/15	3/16/15	4/21/15	8/11/15	12/21/16
0.50 U	0.50 U	3.0	0.59 I	3.9
0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
141	155	172	133	118
1.2	1.4	3.1	4.6	8.6

MW-31S
6/20/17
119
0.50 U
23.2
19.4

MW-07S										
2/3/15	3/17/15	4/22/15	7/31/15	8/11/15	1/17/16	4/18/16	7/26/16	12/21/16	6/20/17	
666	645	744	68.9	315	3.1	23.6	14.7	0.50 U	0.66 I	
2.4	3.6	4.5	6.2	4.7 I	0.50 U	0.76 I	2.5 U	1.5	0.50 U	
509	547	636	1,536	1,210	11.4	77.8	248	285	23	
68.7	92.5	100	1.2 U	116	1060	186	223	193	23	

INJ-3		
4/22/15	8/11/15	7/28/16
1,750	5.2	11.2
9.3	10.1	0.50 U
1,480	3,540	48.0
183	206	160

MW-21S						
7/10/15	7/31/15	8/11/15	4/18/16	7/26/16	12/21/16	6/20/17
1,649	1,511	1,970	141	161	119	10.6
7.0	7.0	8.2	3.9	12.5 U	5.4	0.63 I
3,282	1,608	1,480	776	1400	858	159
298	1.2 U	214	816	457	232	117

INJ-15			
7/10/15	7/31/15	8/11/15	1/17/16
1,225	595	3.2 I	0.54 I
7.50	7.3	12.5	0.50 U
1,170	2,022	3,630	29.9
235	1.2 U	220	291

INJ-2		
4/21/15	7/31/15	8/11/15
1,250	2.8	2.5 U
7.4	3.0	4.3 I
1,200	931	1,470
162	1.2 U	91.8

INJ-31
11/17/16
146
0.86 I
49.4
4.4

MW-15S
12/2/13
0.50 U
0.50 U
0.50 U
0.50 U

INJ-1
8/11/15
2.5 U
2.5 U
25.5
543

INJ-32
11/17/16
2.7
0.50 U
1.4
0.50 U

MW-12S
12/2/13
109
2.9
44.0
1.6

INJ-18	
1/17/16	7/27/17
1760	19.4
10	2.6
2290	669
508	138

INJ-26
1/17/16
155
1.1
134
21.4

INJ-16		
1/17/16	4/18/16	7/27/17
1810	35.6	6.7
8.2	0.50 U	2.2
1810	203	639
421	163	193

INJ-17
1/17/16
786
2.0
184
12.4

INJ-33
11/18/16
928
6.6
1170
198.0

MW-02S								
2/3/15	3/16/15	4/21/15	8/7/15	1/17/16	4/18/16	7/26/16	12/21/16	6/20/17
1,550	1,230	1,260	1,560	278	661	1350	353	106
8.3	7.4	9.3	8.3	1.9	5.0	50.0 U	4.1	1.9
1,710	1,370	1,440	1,640	381	1080	1420	621	494
248	186	157	257	19.3	354	318	193	185

INJ-34	
11/17/16	7/26/17
1180	44.2
5.5	0.89 I
1280	81.9
221	10.8

INJ-35
11/17/16
769
3.7
1170
263

MW-11S
12/3/13
62.6
0.50 U
8.1
1.3

MW-28S
11/18/16
35.2
0.50 U
7.1
0.50 U

MW-16S								
2/3/15	3/16/15	4/21/15	8/7/15	12/4/15	1/17/16	7/26/16	12/21/16	6/20/17
4,000	2,370	2,630	3,560	144	290	58.7	21.6	33.8
20.3	16.3	20.0	18.0	0.50 U	3.2	0.57 I	0.50 U	1.2
4,210	3,180	2,980	3,940	969	737	159	194	360
547	397	383	709	2570	1020	117	156	237

MW-02D										
2/2/11	10/18/11	9/11/12	4/17/13	12/3/13	2/3/15	3/16/15	4/21/15	7/26/16	12/21/16	6/20/17
523	310	205	104	347	341	235	274	336	175	320
4.6	3.3	2.9	4.3	4.9	2.1	2.1	2.7	12.5 U	2.2	3.9
431	716	379	257	653	481	439	380	476	291	571
53.6	32.0	34.2	20.1	46.0	20.5	17.7	18.8	35.3	27.1	61.5

MW-03D
12/4/13
1.3
0.70 I
1.6
0.50 U

INJ-4	
8/11/15	7/27/17
1,290	7.5
6.6	0.50 U
1,540	169
159	78

MW-03S
12/4/13
36.8
7.2
45.9
6.3

INJ-27
7/26/16
237
2.6
33.1
2.9

INJ-20
1/17/16
391
1.5
222
17.7

INJ-21
1/17/16
252
1.0
105
4.8

INJ-28
7/26/16
191
0.50 U
21.6
1.6

INJ-22
7/27/17
35
3.5
754
209

INJ-23
1/17/16
1250
12.2
3150
820

INJ-24			
1/17/16	4/20/16	7/27/16	6/20/17
3870	0.50 U	22.5	1120
9.9	0.50 U	0.50 U	5.4
1610	12.8	49.9	1240
238	8.1	18.8	328

INJ-25
7/27/17
217
7.6
942
353

INJ-38
6/20/17
3440
2.8
390
22.5

MW-20S				
7/7/15	8/7/15	9/11/15	1/17/16	7/27/16
532	151	12.0 U	113	103
9.0	4.4	12.0 U	1.6	1.8
2,544	645	12.0 U	193	159
181	426	12.0 U	61.3	68.8

INJ-5		
2/3/15	4/21/15	7/27/17
2,260	1,210	0.61 I
13.8	14.7	0.50 U
3,000	2,650	177
373	304	172

INJ-30
7/27/16
2180
11.3
279
35.7

INJ-6	
4/21/15	7/27/17
2,210	0.56 I
16.9	6.1
3,710	1,840
451	1,000

INJ-29
7/26/16
1740
1.4
244
8.0

MW-19S				
7/7/15	8/7/15	9/11/15	4/19/16	12/21/16
556	8.8	12.0 U	0.50 U	1.8
12.8	0.50 U	12.0 U	0.50 U	0.50 U
4,502	166	12.0 U	2.4	12.3
317	486	12.0 U	5	11

MW-18S					
2/4/15	3/16/15	4/20/15	8/7/15	9/11/15	6/20/17
3,190	220	917	0.50 U	12.0 U	108
36.6	42.6	45.2	0.50 U	12.0 U	1.8
5,440	8,160	5,340	2.3	54.8	341
354	414	449	1,820	114	773

INJ-8
8/7/15
0.50 U
0.50 U
10.6
17.9

INJ-39
6/21/17
1180
8.3
1160
191

INJ-36	
11/18/16	6/20/17
4770	147
3.6	2.8
547	1010
93.1	198

INJ-37
11/18/16
897
4.7
105
18.4

MW-17S									
2/4/15	3/16/15	4/20/15	8/7/15	9/11/15	12/4/15	7/27/16	12/21/16	6/21/17	
5,930	826	2,020	0.83 I	6.0 U	0.80 I	25.2	3.4	11.0	
62.1	59.4	67.7	0.99 I	6.0 U	0.50 U	0.50 U	0.50 U	1.3	
9,380	10,200	9,080	4.9	409	4.5	7.5	19.9	300	
658	1,080	810	1,830	26.0	18.3	16.4	26.6	260	

MW-08S	
12/5/13	
4.3	
0.85 I	
2.9	
0.50 U	

INJ-7		
4/20/15	8/7/15	1/17/16
29.6	0.50 U	19.9
1.5	0.50 U	0.50 U
315	2.4	27.6
119	39.8	48.1

MW-10S
12/3/13
11.6
2.8
10.8
1.3

INJ-9	
2/4/15	8/7/15
1,600	0.61 I
24.4	0.50 U
3,860	5.9
379	420

INJ-10		
2/3/15	4/20/15	8/7/15
2,020	634	0.85 I
37.0	29.7	0.50 U
4,690	4,970	14.2
444	1,090	1,410

MW-14S
12/4/13
1.2
0.50 U
0.50 U
0.50 U

INJ-11
8/7/15
1.5
0.50 U
25.2
4.9

INJ-12	
4/20/15	8/7/15
169	0.50 U
15.8	0.50 U
1,250	7.3
236	167

MW-13S							
12/2/13	12/2/13	3/16/15	4/20/15	4/19/16	7/25/16	12/21/16	6/20/17
3,510	2,770	1,310	1,390	1.2	89.9	31.1	161
12.1	13.9	5.3	14.0	0.50 U	6.2	0.50 U	2.5
2,610	1,890	1,630	3,100	2.6	2040	158	256
429	324	134	274	5.1	553	74	85.1

30 0 30
APPROXIMATE SCALE FEET

NOTE(S)

1. ALL SITE BUILDINGS, WITH THE EXCEPTION OF BUILDINGS A, B, AND F, WERE DEMOLISHED IN 2013.
2. TCE = TRICHLOROETHENE.
3. DCE = DICHLOROETENE.
4. VC = VINYL CHLORIDE
5. ug/L = MICROGRAMS PER LITER.
6. U = INDICATES THAT THE COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE VALUE SHOWN IS THE METHOD DETECTION LIMIT.
7. I = THE REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND THE LABORATORY PRACTICAL QUANTITATION LIMIT.
8. TW-2 THROUGH TW-10 RESULTS FROM SEPTEMBER 2010.
9. TB-13-GW, TB-14-GW, AND TB-15-GW RESULTS FROM JANUARY 2011.
10. TB-18-GW RESULTS FROM JUNE 2013.
11. TB-41-GW, TB-42-GW, TB-43-GW, TB-46-GW, TB-47-GW, AND TB-48-GW RESULTS FROM JULY 2013.
12. TB-51-GW, TB-53-GW-T, TB-53-GW-R, TB-54-GW, TB-56-GW, TB-57,GW, AND TB-58-GW RESULTS FROM OCTOBER 2013.
13. TB-60-GW AND TB-61-GW RESULTS FROM DECEMBER 2013.

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- TEMPORARY MONITORING WELL (TMW)
- (703) TMW TCE CONCENTRATION (ug/L)
- BEDROCK INJECTION WELL (SCREEN INTERVAL ~20 TO 40 FEET-BGS)
- OVERBURDEN INJECTION WELL (SCREEN INTERVAL ~40 TO 50 FEET BGS)
- OVERBURDEN INJECTION WELL (SCREEN INTERVAL ~50 TO 60 FEET BGS)
- OVERBURDEN INJECTION WELL LOCATION (VARIOUS SCREEN INTERVAL)
- SOIL BORING LOCATION
- OCTOBER 2013 EXCAVATION AREA

MW-02S	WELL ID
2/3/15	DATE SAMPLED
5	TCE
7	1,1-DCE
70	cis-1,2-DCE
2	VC

REFERENCE(S)

1.) BASE MAP TAKEN FROM CADD FILE ORIGINALLY PREPARED BY WYETH - CAROLINA TITLED "STORM WATER PLAN", FILE NAME "C-SITE-004.dwg", REVISION 2, DATED 05/11/2010. BASE MAP MODIFIED BY GOLDER ASSOCIATES ON 02/06/2014 TO REFLECT EXISTING SITE CONDITIONS AS PER AERIAL PHOTOGRAPHS PROVIDED BY PFIZER INC., DATED 11/01/2013. ACTUAL SITE CONDITIONS MAY VARY.

CLIENT
Pfizer

CONSULTANT

Golder Associates

YYYY-MM-DD	2017-05-22
DESIGNED	JWS
PREPARED	BCL
REVIEWED	KAB
APPROVED	JP

PROJECT
Pfizer-CAROLINA

TITLE
GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY

PROJECT NO.	Control No.	REV.	FIGURE
103-82746	10382746-ZL003	----	3

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

ATTACHMENT 1
WELL INSTALLATION LOGS

Golder Associates
Field Boring Log

SB-65 / MW-25

DEPTH HOLE	PROJ. NO. 103-82746.B	PROJECT PFIZER CAROLINA	BORING NO. ~~MW-65~~
DEPTH SOIL DRILL	GA INSP. G. Morelli	DRILLING METHOD HOLLOW STEM AUGER	SHEET 1 OF 1
DEPTH ROCK CORE NA	WEATHER 81°F Cloudy	DRILLING COMPANY AMF	SURFACE ELEV.
ABANDONMENT		DRILL RIG Trailer mount CME 55	DRILLER Steve Gahoon	DATUM
DEPTHS 32 / / / (WATER LEVEL / CAVE-IN / DATE-TIME / NOTE)		SAMPLER HAMMER TYPE	WT. 140 lb DROP 30 in	STARTED 0840 / 11/7/16 (TIME / DATE)
DEPTHS / / / (DELAYED WATER LEVEL / CAVE-IN / DATE-TIME / NOTE)		HOLE LOCATION		COMPLETED 1125 / 11/7/16 (TIME / DATE)

SAMPLE TYPES

A.S.	AUGER SAMPLE
C.S.	CHUNK SAMPLE
* D.O.	DRIVE OPEN (SPT)
D.S.	DENISON SAMPLE
F.S.	FOIL SAMPLE
P.S.	PITCHER SAMPLE
S.C.	SOIL CORE
* T.O.	THIN-WALLED, OPEN
* T.P.	THIN-WALLED, PISTON
W.S.	WASH SAMPLE
*	
*	
*	
* NOTE SIZE	

ABBREVIATIONS

ANG	ANGULAR	GR	GRAY	R	RED
BL	BLACK	HE	HETEROGENEOUS	RES	RESIDUAL
BR	BROWN	HO	HOMOGENEOUS	RX	ROCK
C	COARSE	LYD	LAYERED	RND	ROUNDED
CIN	CAVE-IN	M	MEDIUM	SAT	SATURATED
CO	COHESIVE	MIC	MICACEOUS	SD	SAND
CL	CLAY	MOT	MOTTLED	SI	SILT
CLY	CLAYEY	MST	MOIST	SIY	SILTY
D	DRY	NC	NON-COHESIVE	SM	SOME
EL	ELONGATED	NP	NON-PLASTIC	TR	TRACE
F	FINE	OG	ORANGE	WL	WATER LEVEL
FL	FLAT	ORG	ORGANIC	WH	WEIGHT OF HAMMER
FRAG	FRAGMENTS	PP	POCKET PEN.	WR	WEIGHT OF RODS
GL	GRAVEL	PL	PLASTIC LIMIT	Y	YELLOW

ORDER OF DESCRIPTION

CONSTITUENTS
1) GROUP SYMBOL
2) SOIL GROUP NAME
3) PRIMARY COMPONENTS
4) SECONDARY COMPONENTS
5) MINOR COMPONENTS ;

FULL DESCRIPTION: CLAY: PLASTICITY; SD: SIZE, GRADING; GL: SIZE, GRADING, SHAPE, ROCK TYPE

GENERAL
6) COLOR
7) WEATHERING
8) STRUCTURE
9) SENSITIVITY
10) CONTAMINATION
11) MINERALOGY
12) ORIGIN ;

SEDIMENT
13) BEHAVIOR (CONC)
14) MOISTURE/WATER CONTENT
15) DENSITY/CONSISTENCY

PROPORTIONS

"TRACE"	0 – 5%
"SOME"	5 – 12%
PREFIX "-Y"	12 – 35%
"AND"	35 – 50%

NON-COHESIVE SOILS

RELATIVE DENSITY		BLOWS
VERY LOOSE	VLS	0 – 4
LOOSE	LS	4 – 10
COMPACT	CP	10 – 30
DENSE	DN	30 – 50
VERY DENSE	VDN	>50

MOISTURE CONDITION
DRY — SOIL FLOWS
MOIST — FEELS COOL
WET — WITH FREE WATER

COHESIVE SOILS

CONSISTENCY		PP(TSF)	FINGER PRESSURE
VERY SOFT	VS	<0.25	EXTRUDES
SOFT	S	0.25 - 0.5	MOLDS EASILY
FIRM	FM	0.5 – 1	MOLDS
STIFF	ST	1 – 2	THUMB INDENTS
VERY STIFF	VST	2 – 4	THUMBNAIL INDENTS
HARD	H	>4	RESISTS THUMBNAIL

WATER CONTENT - W
W < PL — CANNOT ROLL 4 mm THREAD
W ~ PL — CAN ROLL THREAD 2 – 4 mm
W > PL — CAN ROLL THREAD <2 mm

ELEV. / DEPTH	LITHOLOGY	SAMPLES NO.	TYPE	DEPTH	SPT N / PP(TSF)	BLOWS PER 6 IN	REC / ATT	CONSTITUENTS GL (PROPORTION, SIZE, SHAPE, GRADING, PLASTICITY)	SD	CL/SI	BEHAVIOR CO or NC	MOIST. or W	DENS. / CONS.	USCS	SAMPLE DESCRIPTION AND DRILLING NOTES PID (ppm)
		S1	DO		65	4 24 41 26	24/24								0.4 (SP) F-C, SAND, TR ~~SILT, Clay, brown~~ SI, CL, GL brown, dry
2		2	DO		64	83 15 49 52	24/24								0.3 SAA w/ small seam of BR CL
4		3	DO		32	12 13 19 17	19/24								0.2 (SP) more C SAND
6		4	DO		21	14 12 9 12	23/24								(SC) Clayey SAND, TR SI TR GL, ~~BR~~ MST 0.0 brown
8		5	DO		14	3 6 8 14	21/24								0.7 (CL) Silty CLAY, TR F SD, BR to light BR MOT, plastic
10		6	DO		22	4 8 14 20	27/24								0.9 (CL) SAA, D
12		7	DO		56	23 28 28 29	24/24								1.1 (CL) SAA, SM ~~MST~~ GR MOT
14		8	DO		24	7 9 15 19	23/24								~~1.4~~ 1.1 (CL) SAA
16		9	DO		48	13 20 25 25	24/24								1.9 (CL) SAA, MOT consolidation
18		10	DO		81	10 22 59	21/18								5.0 (CL) SAA
20		11	DO		84	59 34 50	21/18								22.3 (CL) SAA 1-lb sample collected
22		12	DO		R	75/6	6/6								18.1 (CL) SAA, TR weathered saprolite
24		13	DO		R	30 50/3	10/9								27.5 Weathered Saprolite / consolidated silty CLAY, BR 1-lb sample collected
26		14	DO		R	21 50/3	12/9								17.9 SAA
28		15	DO		R	53/6	11/6								5.0 SAA
30		16	DO		R	37 25 50/4	23/16								15.7 SAA
32		17	DO		R	50/3	7/3								4.6 met at 32 ft bgs (SAA)
34		18	DO		R	50/3	3/3								7.6 SAA
36															
38															
40															
44															
46															

Dec 2012

Golder Associates

Golder Associates
Field Boring Log

DEPTH HOLE	PROJ. NO. 103-82746.B	PROJECT PFIZER CAROLINA	BORING NO. SB-66/MW-26
DEPTH SOIL DRILL	GA INSP. G. Morelli	DRILLING METHOD HOLLOW STEM AUGER	SHEET 1 OF 1
DEPTH ROCK CORE NA	WEATHER 81°F Light rain	DRILLING COMPANY AMF	SURFACE ELEV.
ABANDONMENT		DRILL RIG Trailer Mounted CME 55 DRILLER Sean Gilderson	DATUM
DEPTHS 38 / / / (WATER LEVEL / CAVE-IN / DATE-TIME / NOTE)		SAMPLER HAMMER TYPE WT. 140 lb DROP 30 in	STARTED 1305 / 11/7/16 (TIME / DATE)
DEPTHS (DELAYED) / / / (WATER LEVEL / CAVE-IN / DATE-TIME / NOTE)		HOLE LOCATION	COMPLETED 1100 / 11/9/16 (TIME / DATE)

SAMPLE TYPES

A.S.	AUGER SAMPLE
C.S.	CHUNK SAMPLE
* D.O.	DRIVE OPEN (SPT)
D.S.	DENISON SAMPLE
F.S.	FOIL SAMPLE
P.S.	PITCHER SAMPLE
S.C.	SOIL CORE
* T.O.	THIN-WALLED, OPEN
* T.P.	THIN-WALLED, PISTON
W.S.	WASH SAMPLE
*	
*	
*	
*NOTE SIZE	

ABBREVIATIONS

ANG	ANGULAR	GR	GRAY	R	RED
BL	BLACK	HE	HETEROGENEOUS	RES	RESIDUAL
BR	BROWN	HO	HOMOGENEOUS	RX	ROCK
C	COARSE	LYD	LAYERED	RND	ROUNDED
CIN	CAVE-IN	M	MEDIUM	SAT	SATURATED
CO	COHESIVE	MIC	MICACEOUS	SD	SAND
CL	CLAY	MOT	MOTTLED	SI	SILT
CLY	CLAYEY	MST	MOIST	SIY	SILTY
D	DRY	NC	NON-COHESIVE	SM	SOME
EL	ELONGATED	NP	NON-PLASTIC	TR	TRACE
F	FINE	OG	ORANGE	WL	WATER LEVEL
FL	FLAT	ORG	ORGANIC	WH	WEIGHT OF HAMMER
FRAG	FRAGMENTS	PP	POCKET PEN.	WR	WEIGHT OF RODS
GL	GRAVEL	PL	PLASTIC LIMIT	Y	YELLOW

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6) COLOR
7) WEATHERING
8) STRUCTURE
9) SENSITIVITY
10) CONTAMINATION
11) MINERALOGY
12) ORIGIN ;

BEHAVIOR
13) BEHAVIOR (CONC)
14) MOISTURE/WATER CONTENT
15) DENSITY/CONSISTENCY

PROPORTIONS

"TRACE"	0 – 5%
"SOME"	5 – 12%
PREFIX "-Y"	12 – 35%
"AND"	35 – 50%

NON-COHESIVE SOILS

RELATIVE DENSITY		BLOWS
VERY LOOSE	VLS	0 – 4
LOOSE	LS	4 – 10
COMPACT	CP	10 – 30
DENSE	DN	30 – 50
VERY DENSE	VDN	>50

MOISTURE CONDITION

DRY	SOIL FLOWS
MOIST	FEELS COOL
WET	WITH FREE WATER

COHESIVE SOILS

CONSISTENCY		PP(TSF)	FINGER PRESSURE
VERY SOFT	VS	<0.25	EXTRUDES
SOFT	S	0.25 - 0.5	MOLDS EASILY
FIRM	FM	0.5 – 1	MOLDS
STIFF	ST	1 – 2	THUMB INDENTS
VERY STIFF	VST	2 – 4	THUMBNAIL INDENTS
HARD	H	>4	RESISTS THUMBNAIL

WATER CONTENT - W

W < PL	CANNOT ROLL 4 mm THREAD
W ~ PL	CAN ROLL THREAD 2 – 4 mm
W > PL	CAN ROLL THREAD <2 mm

ELEV. / DEPTH	LITHOLOGY	SAMPLES NO.	TYPE	DEPTH	BLOWS PER 6 IN	REC / ATT	CONSTITUENTS GL	SD	CL/SI	BEHAVIOR CO or NC	MOIST. or W	DENS. CONS.	USCS	SAMPLE DESCRIPTION AND DRILLING NOTES PID (ppm)
			AS											~~SAA~~ 0-5 (SP) F-C SAND, TR SI, CL CL, BR, D
2			AS											
4			AS											
6			AS		7	2 3 4 5 / 24								0.1 SB (CL) Silty CLAY, dark GR, MST, plastic
8			AS			17 40 37 42								0.3 ~~SB~~-9 (CL) SAA, MST to D ~~9-10~~ (CL) Silty CLAY, R BR, D
10		1	DO		R	30 50/4 / 12/10		Blows	Rec / Att	47 50/5	11/11			28.9/0.3 (CL) SAA
12		2	DO		R	30 ~~50/4~~ / ~~12~~ 10	→	26 40 50/5	17/11					0.2 (CL) SAA, ~~SAA~~ ~~MOIST~~ consolidation
14		3	DO		R	50/4.5	4.5/4.5							0.1 (CL) Silty CLAY, light BR, D
16		4	DO		R	50/2	0/2							
18		5	DO		R	50/5	~~0~~ 5/5							1.0 (CL) Silty CLAY, BR, consolidation
20		6	DO		R	50/2	2/2							1.1 (CL) SAA
22			DO		R	50/5	5/5							1.8 (CL) SAA
24			DO		R	50/3	3/3							0.6 weathered Saprolite / consolidated Silty CLAY, R BR, D
26			DO		R	50/3	3/3							1.2 ~~0.4~~ SAA
28			DO		R	50/2	2/2							0.9 SAA
30			DO		R	50/5	5/5							3.9 SAA
32			DO		R	50/5	5/5							5.1 SAA lab sample collected
34			DO		R	50/3	3/3							1.7 SAA
36			DO		R	50/2	2/2							0.5 SAA
38			DO		R	50/3	3/3							1.6 SAA, wet
40														
44														
46														

Dec 2012

Golder Associates

Golder Associates
Field Boring Log

DEPTH HOLE	PROJ. NO. 103-82746.B	PROJECT PFIZER CAROLINA	BORING NO. SB-57/MW-27
DEPTH SOIL DRILL	GA INSP. G. Morelli	DRILLING METHOD HOLLOW STEM AUGER	SHEET 1 OF
DEPTH ROCK CORE NA	WEATHER	DRILLING COMPANY AMF	SURFACE ELEV.
ABANDONMENT		DRILL RIG Trailer Mounted CME 55 DRILLER Sean Colleran	DATUM
DEPTHS / / / (WATER LEVEL, CAVE-IN, DATE-TIME, NOTE)		SAMPLER HAMMER TYPE WT. 140lb DROP 30in	STARTED 1213 / 11/9/16 (TIME, DATE)
DEPTHS (DELAYED) / / / (WATER LEVEL, CAVE-IN, DATE-TIME, NOTE)		HOLE LOCATION	COMPLETED 1545 / 11/9/16 (TIME, DATE)

SAMPLE TYPES

A.S.	AUGER SAMPLE
C.S.	CHUNK SAMPLE
* D.O.	DRIVE OPEN (SPT)
D.S.	DENISON SAMPLE
F.S.	FOIL SAMPLE
P.S.	PITCHER SAMPLE
S.C.	SOIL CORE
* T.O.	THIN-WALLED, OPEN
* T.P.	THIN-WALLED, PISTON
W.S.	WASH SAMPLE
*	
*	
*	
* NOTE SIZE	

ABBREVIATIONS

ANG	ANGULAR	GR	GRAY	R	RED
BL	BLACK	HE	HETEROGENEOUS	RES	RESIDUAL
BR	BROWN	HO	HOMOGENEOUS	RX	ROCK
C	COARSE	LYD	LAYERED	RND	ROUNDED
CIN	CAVE-IN	M	MEDIUM	SAT	SATURATED
CO	COHESIVE	MIC	MICACEOUS	SD	SAND
CL	CLAY	MOT	MOTTLED	SI	SILT
CLY	CLAYEY	MST	MOIST	SIY	SILTY
D	DRY	NC	NON-COHESIVE	SM	SOME
EL	ELONGATED	NP	NON-PLASTIC	TR	TRACE
F	FINE	OG	ORANGE	WL	WATER LEVEL
FL	FLAT	ORG	ORGANIC	WH	WEIGHT OF HAMMER
FRAG	FRAGMENTS	PP	POCKET PEN.	WR	WEIGHT OF RODS
GL	GRAVEL	PL	PLASTIC LIMIT	Y	YELLOW

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6) COLOR
7) WEATHERING
8) STRUCTURE
9) SENSITIVITY
10) CONTAMINATION
11) MINERALOGY
12) ORIGIN ;

BEHAVIOR
13) BEHAVIOR (DGAIG)
14) MOISTURE/WATER CONTENT
15) DENSITY/CONSISTENCY

PROPORTIONS

"TRACE"	0 – 5%
"SOME"	5 – 12%
PREFIX "-Y"	12 – 35%
"AND"	35 – 50%

NON-COHESIVE SOILS

RELATIVE DENSITY		BLOWS
VERY LOOSE	VLS	0 – 4
LOOSE	LS	4 – 10
COMPACT	CP	10 – 30
DENSE	DN	30 – 50
VERY DENSE	VDN	>50

MOISTURE CONDITION

DRY	SOIL FLOWS
MOIST	FEELS COOL
WET	WITH FREE WATER

COHESIVE SOILS

CONSISTENCY		PP(TSF)	FINGER PRESSURE
VERY SOFT	VS	<0.25	EXTRUDES
SOFT	S	0.25 - 0.5	MOLDS EASILY
FIRM	FM	0.5 – 1	MOLDS
STIFF	ST	1 – 2	THUMB INDENTS
VERY STIFF	VST	2 – 4	THUMBNAIL INDENTS
HARD	H	>4	RESISTS THUMBNAIL

WATER CONTENT - W

W < PL	CANNOT ROLL 4 mm THREAD
W ~ PL	CAN ROLL THREAD 2 – 4 mm
W > PL	CAN ROLL THREAD <2 mm

ELEV. DEPTH	LITHOLOGY	SAMPLES NO.	TYPE	DEPTH	SPT N / PP(TSF)	BLOWS PER 6 IN	REC / ATT	CONSTITUENTS GL (PROPORTION, SIZE, SHAPE, GRADING, CLARITY)	SD	CL/SI	BEHAVIOR CO or NC	MOIST. or W	DENS. CONS.	USCS	SAMPLE DESCRIPTION AND DRILLING NOTES PID (ppm)
		1			13	2 5 8 8	19/24								0.0 (SP) F-C SAND TR SI CL GL, BR, D
2		2			R	50/5	5.5/5.5								0.0 (SP) F-C SAND SM GL, TR SI CL, BR, D (concrete gravel)
4		3			R	20 50/5	4/11								0.0 SAA, w/ concrete rubble/GL MST
6		4			23	6 11 12 25	24/24								0.0 SAND AND GL, BR MST
8		5			17	12 11 6 4	16/24								0.1 (SP) F-C SAND TR SI CL GL, BR, MST
10		6			7	2 3 4 6	24/24								1.6 (CL) SILTY CLAY, R BR + GR MST, plastic, W > PL
12		7			19	8 10 9 9	24/24								2.0 SAA
14		8			16	4 6 10 19	24/24								3.3 SAA, MST / W<PL
16		9			39	19 19 20 20	21/24								5.2 SAA
18		10			36	20 18 18 25	19/24								7.0 SAA, D Lab Sample collected 1545
20		11			R	8 18 50/5	17/17								~~3.0~~ 5.2 SAA, consolidation
22		12			R	50/6	6/6								0.2 SAA
24		13			R	50/4	3/4								~~0.0~~ 2.9 SAA
26		14			42	28 13 27 28	24/24								2.2 SAA
28		15			X	41 30 50/4	16/16								1.6 (CL) SILTY CLAY, R BR, D Weathered Saprolite
30		16			R	37 50/1	7/7								1.1 SAA
32		17			R	50/3	3/3								0.7 SAA, wet
34		18			R	50/5	5/5								1.0 ~~SAA~~ SAA, MST
36															
38															
40															
44															
46															

Dec 2012

Golder Associates

Golder Associates
Field Boring Log

DEPTH HOLE 32	PROJ. NO. 103-82746.B	PROJECT PFIZER CAROLINA	BORING NO. SB-68
DEPTH SOIL DRILL	GA INSP. G. Morelli	DRILLING METHOD HOLLOW STEM AUGER	SHEET 1 OF 1
DEPTH ROCK CORE NA	WEATHER 88°F partly cloudy	DRILLING COMPANY AMF	SURFACE ELEV. 1
ABANDONMENT 1015-1103	not ~~pulled~~ cement grout	DRILL RIG Trailer mounted CME 55 DRILLER Juan Calderon	DATUM
DEPTHS / / / (WATER LEVEL, CAVE-IN, DATE-TIME, NOTE)		SAMPLER HAMMER TYPE WT. 140 lb DROP 30 in	STARTED 0735 / 11/10/16 (TIME, DATE)
DEPTHS (DELAYED) / / / (WATER LEVEL, CAVE-IN, DATE-TIME, NOTE)		HOLE LOCATION	COMPLETED 0945 / 11/10/16 (TIME, DATE)

SAMPLE TYPES

A.S.	AUGER SAMPLE
C.S.	CHUNK SAMPLE
* D.O.	DRIVE OPEN (SPT)
D.S.	DENISON SAMPLE
F.S.	FOIL SAMPLE
P.S.	PITCHER SAMPLE
S.C.	SOIL CORE
* T.O.	THIN-WALLED, OPEN
* T.P.	THIN-WALLED, PISTON
W.S.	WASH SAMPLE
*	
*	
*	
* NOTE SIZE	

ABBREVIATIONS

ANG	ANGULAR	GR	GRAY	R	RED
BL	BLACK	HE	HETEROGENEOUS	RES	RESIDUAL
BR	BROWN	HO	HOMOGENEOUS	RX	ROCK
C	COARSE	LYD	LAYERED	RND	ROUNDED
CIN	CAVE-IN	M	MEDIUM	SAT	SATURATED
CO	COHESIVE	MIC	MICACEOUS	SD	SAND
CL	CLAY	MOT	MOTTLED	SI	SILT
CLY	CLAYEY	MST	MOIST	SIY	SILTY
D	DRY	NC	NON-COHESIVE	SM	SOME
EL	ELONGATED	NP	NON-PLASTIC	TR	TRACE
F	FINE	OG	ORANGE	WL	WATER LEVEL
FL	FLAT	ORG	ORGANIC	WH	WEIGHT OF HAMMER
FRAG	FRAGMENTS	PP	POCKET PEN.	WR	WEIGHT OF RODS
GL	GRAVEL	PL	PLASTIC LIMIT	Y	YELLOW

ORDER OF DESCRIPTION

1) GROUP SYMBOL
2) SOIL GROUP NAME
3) PRIMARY COMPONENTS
4) SECONDARY COMPONENTS
5) MINOR COMPONENTS ;
6) COLOR
7) WEATHERING
8) STRUCTURE
9) SENSITIVITY
10) CONTAMINATION
11) MINERALOGY
12) ORIGIN ;
13) BEHAVIOR (CONC)
14) MOISTURE/WATER CONTENT
15) DENSITY/CONSISTENCY

(CONSTITUENTS: 3–5; ORIGINAL: 6–12; BEHAVIOR: 13–15)

PLUS DESCRIPTION: CLAY: PLASTICITY; SD: SIZE, GRADING; GL: SIZE, GRADING, SHAPE, ROCK TYPE

PROPORTIONS

"TRACE"	0 – 5%
"SOME"	5 – 12%
PREFIX "-Y"	12 – 35%
"AND"	35 – 50%

NON-COHESIVE SOILS

RELATIVE DENSITY		BLOWS
VERY LOOSE	VLS	0 – 4
LOOSE	LS	4 – 10
COMPACT	CP	10 – 30
DENSE	DN	30 – 50
VERY DENSE	VDN	>50

MOISTURE CONDITION

DRY	SOIL FLOWS
MOIST	FEELS COOL
WET	WITH FREE WATER

COHESIVE SOILS

CONSISTENCY		PP(TSF)	FINGER PRESSURE
VERY SOFT	VS	<0.25	EXTRUDES
SOFT	S	0.25 - 0.5	MOLDS EASILY
FIRM	FM	0.5 – 1	MOLDS
STIFF	ST	1 – 2	THUMB INDENTS
VERY STIFF	VST	2 – 4	THUMBNAIL INDENTS
HARD	H	>4	RESISTS THUMBNAIL

WATER CONTENT - W

W < PL	CANNOT ROLL 4 mm THREAD
W ~ PL	CAN ROLL THREAD 2 – 4 mm
W > PL	CAN ROLL THREAD <2 mm

ELEV. DEPTH	LITHOLOGY	SAMPLES NO.	TYPE	DEPTH	SPT N / PP(TSF)	BLOWS PER 6 IN	REC / ATT	CONSTITUENTS GL	SD	CL/SI	BEHAVIOR CO or MC	MOIST. or W	DENS. CONS.	USCS	PID (ppm)	SAMPLE DESCRIPTION AND DRILLING NOTES
			AS													
2			AS													
4			AS													
6			AS													
8			AS													
10			AS													
12			AS													(SP) silty SAND, ~~gray~~ GR petrol like odor, wet slough
14		1	DO		50	13 27 23 30	24/24									29.1 (SP) F SAND, R BR & GR MOT, D lab sample collected @ 1050
16		2	DO		R	50/4.5	4.5/4.5									1.8 (SP) F SAND TR-SM SI and CL MOT, D
18		3	DO		R	50/5	3/5									1.0 (CL) silty CLAY, BR, consolidation
20		4	DO		R	50/5	4/5									1.1 (CL) SAA MOT BR & GR
22		5	DO		R	50/3	5/3									3" (SP) F SAND BR seam, wet 5.1 (CL) silty CLAY BR consolidation, D
24		6	DO		R	50/5	5/5									3.2 (CL) SAA, MOT BR & GR, D
26		7	DO		R	50/2	0/2									NS
28		8	DO		R	50/1	1/1									0.1-3 SAA, weathered Saprolite
30		9	DO		R	50/3	3/3									0.2 SAA, wet
32		10	DO		R	50/1	1/1									0.0 SAA
34																
36																
38																1015 Begin
40																
44																
46																

Dec 2012

Golder Associates

MONITORING WELL INSTALLATION LOG

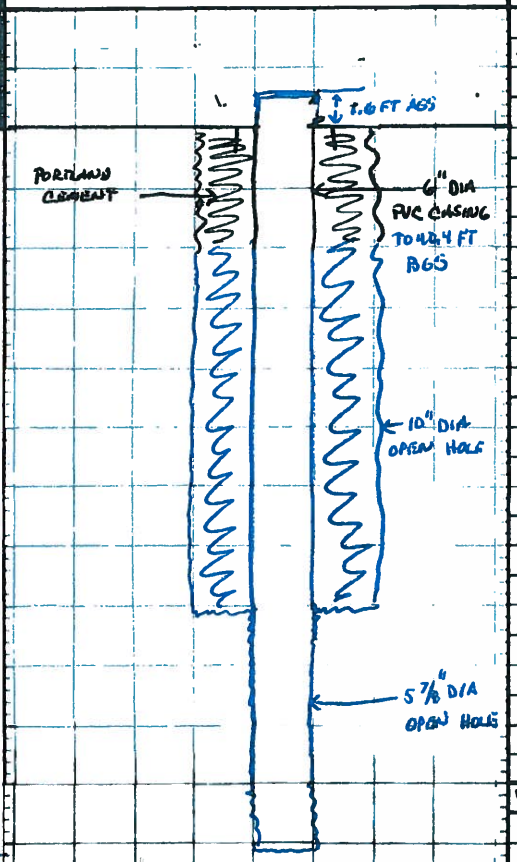
JOB NO. 103-82746B	PROJECT PFIZER CAROLINA		WELL NO. INJ-31	SHEET 1	OF 1
GA INSP. RCM	DRILLING METHOD AIR ROTARY		GROUND ELEV. NA	WATER DEPTH —	
WEATHER PC 70s	DRILLING COMPANY CONCRETE WELL & PUMP (ONSITE)		COLLAR ELEV. NA	DATE/TIME —	
TEMP. 70s	DRILL RIG POSTER T-650 WTF	DRILLER ALEX	STARTED 1100 / 11/1/16 (TIME / DATE)	COMPLETED 1400 / 11/1/16 (TIME / DATE)	

MATERIALS INVENTORY

WELL CASING 6.0 in. dia. 42 l.f.		WELL SCREEN NA in. dia. NA l.f.		BENTONITE SEAL NA	
CASING TYPE SCHEDULE 40 PVC		SCREEN TYPE NA - OPEN HOLE		INSTALLATION METHOD NA	
JOINT TYPE THREADED		SLOT SIZE NA		FILTER PACK QTY. NA	
GROUT QUANTITY		CENTRALIZERS NA		FILTER PACK TYPE NA	
GROUT TYPE PORTLAND CEMENT		DRILLING MUD TYPE NA		INSTALLATION METHOD NA	

[redacted]	[redacted]
0.0	
10	
20	BROWN DRY SAPROLITE
30	
40	TOP OF ROCK @ 39 FT BGS
50	
60	BORING COMPLETED @ 61.0 FT BGS
70	
80	

WELL SKETCH



INSTALLATION NOTES

TOTAL DEPTH 61.0 FT BGS
TOP OF OPEN HOLE 40.4 FT BGS
BOTTOM OF OPEN HOLE 61.0 FT BGS
STICK UP - 1.6 FT AGS

BORING DIAMETER 10-INCHES

OPEN HOLE DIAMETER 5 7/8"

LOCATED 25' SOUTH OF MW-22

WELL DEVELOPMENT NOTES

MONITORING WELL INSTALLATION LOG

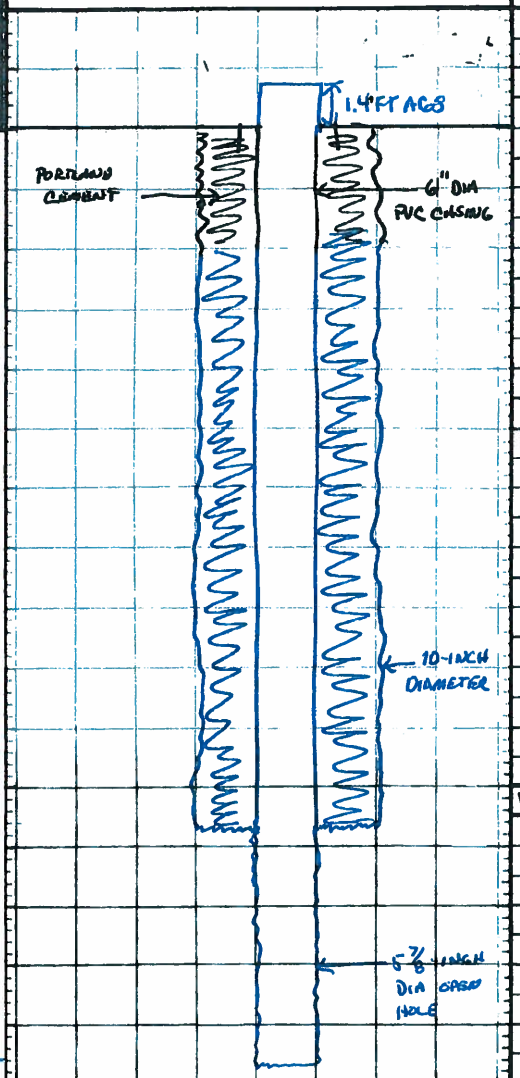
JOB NO. 1038274GB	PROJECT PFIZER CAROLINA			WELL NO. IN-32		SHEET 1	OF 1
GA INSP. RFM	DRILLING METHOD AIR ROTARY			GROUND ELEV. NA		WATER DEPTH —	
WEATHER PC RAIN	DRILLING COMPANY COMPLETE WELL & PUMP (ONSITE)			COLLAR ELEV. NA		DATE/TIME —	
TEMP. 90S	DRILL RIG POSTER T-650 WTF	DRILLER ALEX		STARTED 1023 / 11-10-16 (TIME / DATE)		COMPLETED 1246 / 11-11-16 (TIME / DATE)	

MATERIALS INVENTORY

WELL CASING 6.0 in. dia. 59.5 l.f.		WELL SCREEN NA in. dia. NA l.f.		BENTONITE SEAL NA	
CASING TYPE SCHEDULE 40 PVC		SCREEN TYPE NA - OPEN HOLE		INSTALLATION METHOD NA	
JOINT TYPE THREADED		SLOT SIZE NA		FILTER PACK QTY. NA	
GROUT QUANTITY 14 BAGS 2 BATCHES		CENTRALIZERS NA		FILTER PACK TYPE NA	
GROUT TYPE PORTLAND CEMENT		DRILLING MUD TYPE NA		INSTALLATION METHOD NA	

KEY/DEPTH	SOIL/ROCK DESCRIPTION
	GROUND SURFACE
0.0	
10	
20	
30	BROWN SAPROLITE
40	
50	
60	TOP OF ROCK @ 57 FT BGS
70	
80	BORING COMPLETED @ 78 FT BGS

WELL SKETCH



INSTALLATION NOTES

TOTAL DEPTH 78.0 FT BGS
TOP OF OPEN HOLE 58.1 FT BGS
BOTTOM OF OPEN HOLE 78.0 FT BGS
STICK UP - 1.4 FT AGS

BORING DIAMETER 10 INCHES

OPEN HOLE DIAMETER 5 7/8 INCHES

LOCATED 25 FT SOUTH OF MW-15S

WELL DEVELOPMENT NOTES

MONITORING WELL INSTALLATION LOG

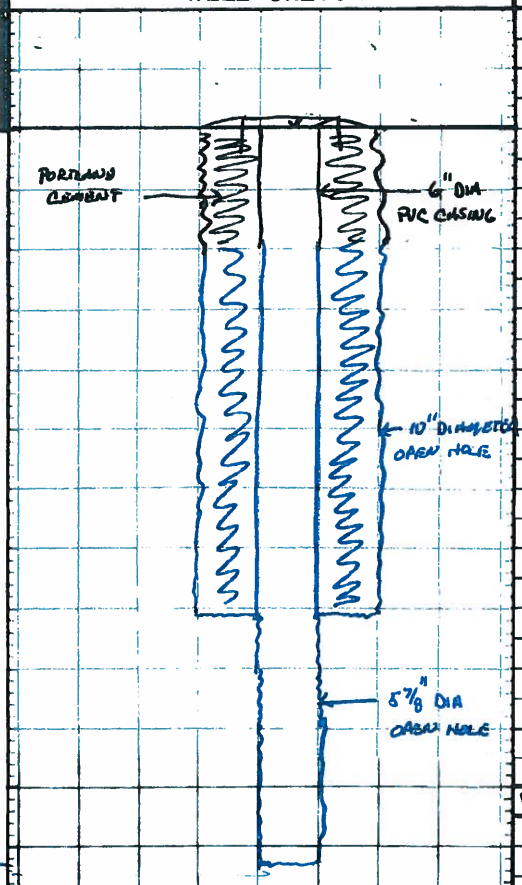
JOB NO. 1038274GB	PROJECT PFIZER CAROLINA		WELL NO. INJ-33	SHEET 1	OF 1
GA INSP. RFM	DRILLING METHOD AIR ROTARY		GROUND ELEV. NA	WATER DEPTH —	
WEATHER PC/SUNNY	DRILLING COMPANY COMPLETE WELL & PUMP (ONSITE)		COLLAR ELEV. NA	DATE/TIME —	
TEMP. 90s	DRILL RIG POSTER T-650 WTE	DRILLER ALEX	STARTED 1350 / 11-14-16 (TIME / DATE)	COMPLETED 1611 / 11-15-16 (TIME / DATE)	

MATERIALS INVENTORY

WELL CASING 6.0 in. dia. 42 l.f.		WELL SCREEN NA in. dia. NA l.f.		BENTONITE SEAL NA	
CASING TYPE SCHEDULE 40 PVC		SCREEN TYPE NA - OPEN HOLE		INSTALLATION METHOD NA	
JOINT TYPE THREADED		SLOT SIZE NA		FILTER PACK QTY NA	
GROUT QUANTITY 6 BATCHES 36 BAGS		CENTRALIZERS NA		FILTER PACK TYPE NA	
GROUT TYPE PORTLAND CEMENT		DRILLING MUD TYPE NA		INSTALLATION METHOD NA	

DEPTH	SOIL/ROCK DESCRIPTION
0.0	
10	
20	BROWN SAPROLITE
30	
40	HIT ROCK AT 39.5 FT BGS SATURATED CUTTINGS
50	50-54 BLACK FLOATING SUBSTANCE IN WATER. NO ODOR / NOT GREASY
60	BORING COMPLETED @ 61.75 FT BGS
70	
80	

WELL SKETCH



INSTALLATION NOTES

TOTAL DEPTH 61.75 FT BGS
TOP OF OPEN HOLE 41.10 FT BGS
BOTTOM OF OPEN HOLE 61.75 FT BGS
STICK UP - 0.9 FT AGS

BORING DIAMETER 10-INCHES

OPEN HOLE DIAMETER 5 7/8"

LOCATED 20 FEET WEST OF INJ-34

WELL DEVELOPMENT NOTES

MONITORING WELL INSTALLATION LOG

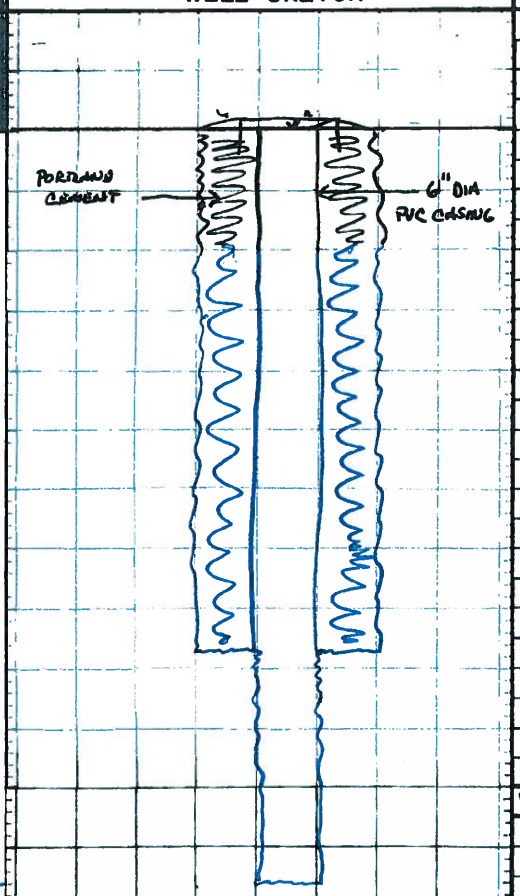
JOB NO. 103827466	PROJECT PFIZER CAROLINA			WELL NO. INJ-34		SHEET 1	OF 1
GA INSP. RPM	DRILLING METHOD AIR ROTARY			GROUND ELEV. NA		WATER DEPTH —	
WEATHER OC. 80S	DRILLING COMPANY COMPLETE WELL & PUMP (ONSITE)			COLLAR ELEV. NA		DATE/TIME —	
TEMP. 80S	DRILL RIG POSTER T-650 WTE	DRILLER ALEX		STARTED 739 (TIME) / 11-16-16 (DATE)		COMPLETED 852 (TIME) / 11-17-16 (DATE)	

MATERIALS INVENTORY

WELL CASING	6.0 in. dia. 44 l.f	WELL SCREEN	NA in. dia. NA l.f	BENTONITE SEAL	NA
CASING TYPE	SCHEDULE 40 PVC	SCREEN TYPE	NA-OPEN HOLE	INSTALLATION METHOD	NA
JOINT TYPE	THREADED	SLOT SIZE	NA	FILTER PACK QTY.	NA
GROUT QUANTITY	36 BAGS	CENTRALIZERS	NA	FILTER PACK TYPE	NA
GROUT TYPE	PORTLAND CEMENT	DRILLING MUD TYPE	NA	INSTALLATION METHOD	NA

DEPTH	WELL/BOR DESCRIPTION
0.0	
10	
20	BROWN SAPROLITE DRY
30	
40	HIT ROCK @ 40.5 FT BGS
50	
60	
	BORING COMPLETED @ 63 FT BGS
70	
80	

WELL SKETCH



INSTALLATION NOTES

TOTAL DEPTH 63.0 FT BGS
TOP OF OPEN HOLE 43.4 FT BGS
BOTTOM OF OPEN HOLE 63.0 FT BGS
STICK UP 0.6 FT AGS

BORING DIAMETER 10" DIA

OPEN HOLE DIA 5 7/8" DIA

LOCATED 25 FT SOUTH OF MW-2D

WELL DEVELOPMENT NOTES

Golder Associates

MONITORING WELL INSTALLATION LOG

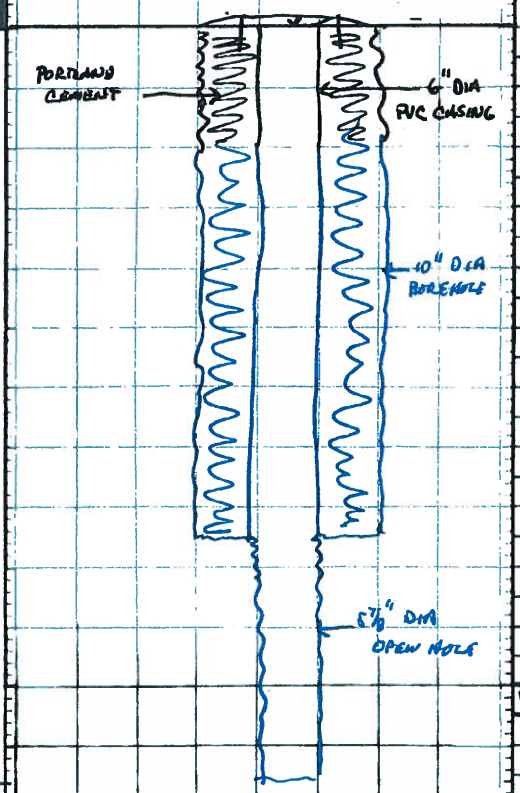
JOB NO. 103827416B	PROJECT PFIZER CAROLINA			WELL NO. RNJ-35		SHEET 1	OF 1
GA INSP. RFM	DRILLING METHOD AIR ROTARY			GROUND ELEV. NA		WATER DEPTH —	
WEATHER PC 80s	DRILLING COMPANY COMPLETE WELL & PUMP (ONSITE)			COLLAR ELEV. NA		DATE/TIME —	
TEMP. 80s	DRILL RIG POSTER T-650 WTF	DRILLER ALEX		STARTED 1430 TIME	11-16-16 DATE	COMPLETED 818 TIME	11-17-16 DATE

MATERIALS INVENTORY

WELL CASING	6.0 in. dia. 43.4 l.f.	WELL SCREEN	NA in. dia. NA l.f.	BENTONITE SEAL	NA
CASING TYPE	SCHEDULE 40 PVC	SCREEN TYPE	NA - OPEN HOLE	INSTALLATION METHOD	NA
JOINT TYPE	THREADED	SLOT SIZE	NA	FILTER PACK QTY	NA
GROUT QUANTITY	35 BAGS	CENTRALIZERS	NA	FILTER PACK TYPE	NA
GROUT TYPE	PORTLAND CEMENT	DRILLING MUD TYPE	NA	INSTALLATION METHOD	NA

DEPTH	SOIL/ROCK DESCRIPTION
0.0	
10	BROWN SAPROLITE DRY
20	
30	
40	HIT ROCK @ 41.5 FT BGS
50	
60	
	BORE COMPLETED @ 63 FT BGS
70	
80	

WELL SKETCH



INSTALLATION NOTES

TOTAL DEPTH 63.0 FT BGS
TOP OF OPEN HOLE 43.0 FT BGS
BOTTOM OF OPEN HOLE 63.0 FT BGS

BORE DIAMETER 10"

OPEN HOLE DIAMETER 5 7/8"

WELL DEVELOPMENT NOTES

10382 746.B

MONITORING WELL INSTALLATION LOG

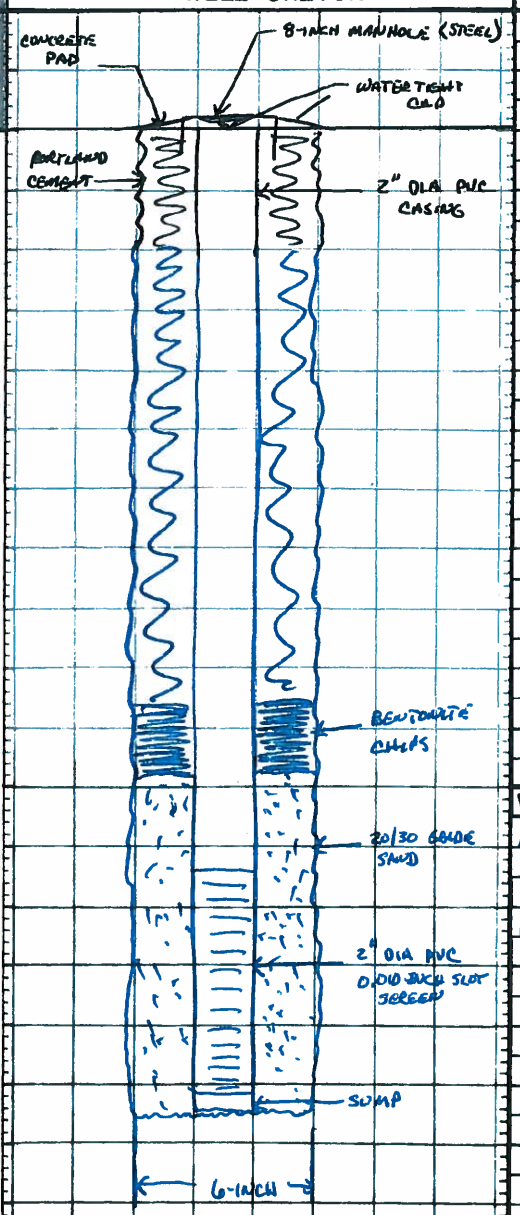
JOB NO. [redacted]	PROJECT PFIZER CAROLINA			WELL NO. MW-25		SHEET 1	OF 1
GA INSP. REM	DRILLING METHOD HOLLOW STEM AUGER			GROUND ELEV. NA		WATER DEPTH ~18 FT BGS	
WEATHER PC RAIN	DRILLING COMPANY COMPLETE WELL & PUMP (ONSITE)			COLLAR ELEV. NA		DATE/TIME —	
TEMP. 90s	DRILL RIG DOSTER T-650 WTF	DRILLER ALEX		STARTED 1031 (TIME) / 11-11-16 (DATE)		COMPLETED 1454 (TIME) / 11-11-16 (DATE)	

MATERIALS INVENTORY

WELL CASING	2.0 in. dia. 35 l.f.	WELL SCREEN	2.0 in. dia. 10 l.f.	BENTONITE SEAL	BENT CHIPS
CASING TYPE	SCHEDULE 40 PVC	SCREEN TYPE	SCHEDULE 40 PVC	INSTALLATION METHOD	TREMIE PIPE
JOINT TYPE	THREADED	SLOT SIZE	0.010 INCH SLOT	FILTER PACK QTY	5-50 lb BAGS
GROUT QUANTITY	3 BAGS	CENTRALIZERS	NA	FILTER PACK TYPE	20/30 SAND
GROUT TYPE	PORTLAND CEMENT	DRILLING MUD TYPE	NA	INSTALLATION METHOD	TREMIE PIPE

ELEV/DEPTH	SOIL/ROCK DESCRIPTION
	GROUND SURFACE
0.0	
5	
10	
15	
20	
25	
30	
35	
40	
45	
50	

WELL SKETCH



INSTALLATION NOTES

TOTAL DEPTH 40.84 FT BGS
TOP OF SCREEN 30.51 FT BGS
BOTTOM OF SCREEN 40.36 FT BGS
STICK UP (CONSTRUCTION) 4.4 FT AGS
TOTAL LENGTH 45.24 FT
TOP OF SAND 27 FT BGS
TOP OF SEAL 24 FT BGS
SUMP - 0.24 FEET

WELL DEVELOPMENT NOTES

11-14-16
REMOVED ~20 GALLONS OF WATER
WATER CLEAR

10382 746.B

MONITORING WELL INSTALLATION LOG

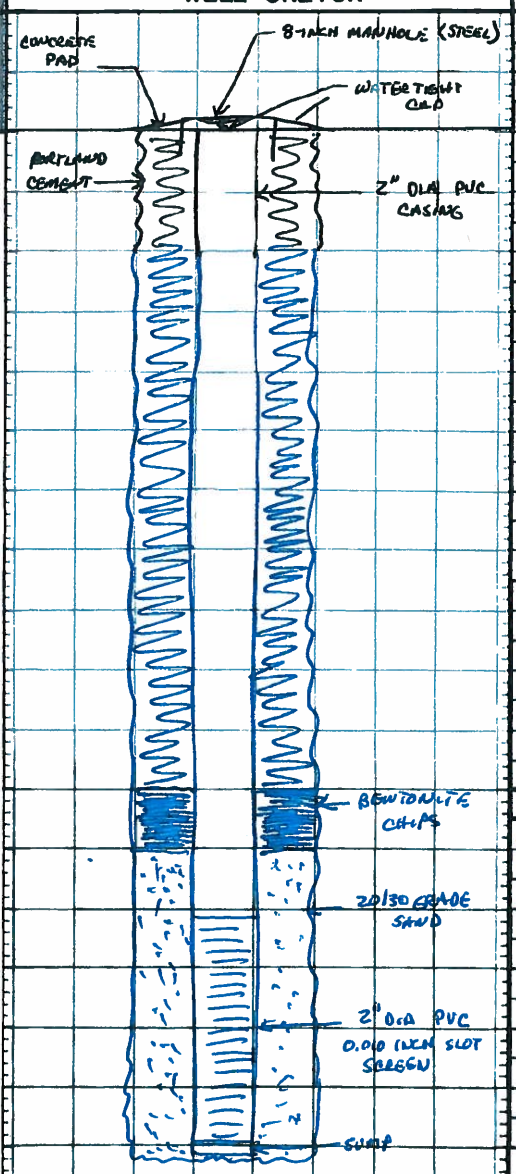
JOB NO.		PROJECT	PFIZER CAROLINA	WELL NO.	MW-27	SHEET	1 OF 1
GA INSP.	REM	DRILLING METHOD	HOLLOW STEM AUGER	GROUND ELEV.	NA	WATER DEPTH	~18
WEATHER	PC RAIN	DRILLING COMPANY	COMPLETE WELL & PUMP (ONSITE)	COLLAR ELEV.	NA	DATE/TIME	—
TEMP.		DRILL RIG	POSTER T-650 WTF	DRILLER	ALEX	STARTED	1606 TIME / 11-11-16 DATE
						COMPLETED	1650 TIME / 11-11-16 DATE

MATERIALS INVENTORY

WELL CASING	2.0 in. dia. 35 l.f.	WELL SCREEN	2.0 in. dia. 10 l.f.	BENTONITE SEAL	BENTONITE CHIPS
CASING TYPE	SCHEDULE 40 PVC	SCREEN TYPE	SCHEDULE 40 PVC	INSTALLATION METHOD	TREMIE PIPE
JOINT TYPE	THREADED	SLOT SIZE	0.010 INCH SLOT	FILTER PACK QTY	4 50 lb BAGS
GROUT QUANTITY	3 BAGS	CENTRALIZERS	NA	FILTER PACK TYPE	20/30 SAND
GROUT TYPE	PORTLAND CEMENT	DRILLING MUD TYPE	NA	INSTALLATION METHOD	TREMIE PIPE

ELEV./DEPTH	SOIL/ROCK DESCRIPTION
	GROUND SURFACE
0.0	
5	
10	
15	
20	
25	
30	
35	
40	
45	
50	

WELL SKETCH



INSTALLATION NOTES

TOTAL DEPTH 42.9 FT BGS
TOP OF SCREEN 32.7 FT BGS
BOTTOM OF SCREEN 42.4 FT BGS
STICK UP (CONSTRUCTION) 2.5 FT AGS
TOTAL LENGTH 45.39 FT
TOP OF SAND 30.0 FT BGS
TOP OF SEAL 27.5 FT BGS
SUMP - 0.24 FEET

WELL DEVELOPMENT NOTES

11-14-16
REMOVED ~25 GALLONS OF WATER
WATER CLEAR

Golder Associates

10382 746.B

MONITORING WELL INSTALLATION LOG

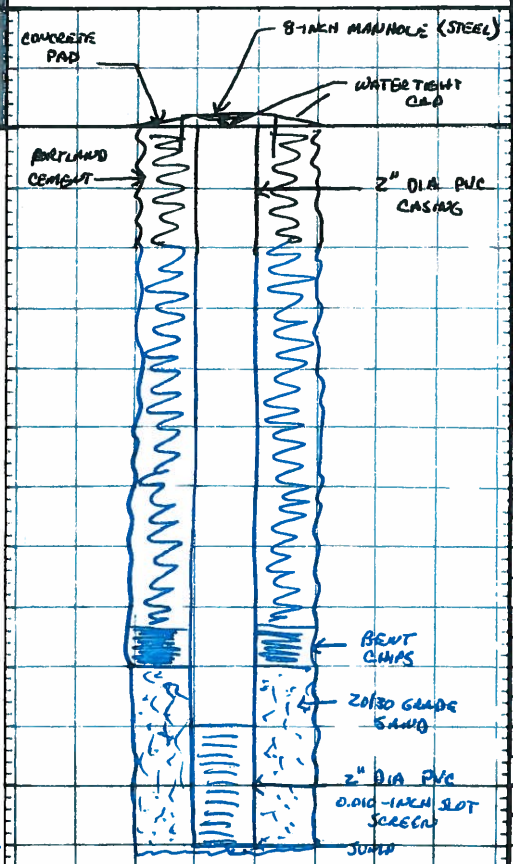
JOB NO. [illegible]	PROJECT PFIZER CAROLINA			WELL NO. MW-2B		SHEET 1	OF 1
GA INSP. RPM	DRILLING METHOD HOLLOW STEM AUGER			GROUND ELEV. NA		WATER DEPTH ~17 FT	
WEATHER	DRILLING COMPANY COMPLETE WELL & PUMP (LOWSITE)			COLLAR ELEV. NA		DATE/TIME —	
TEMP.	DRILL RIG POSTER T-650 W/F	DRILLER ALEX		STARTED 950 TIME / 11-16-16 DATE		COMPLETED 1600 TIME / 11-16-16 DATE	

MATERIALS INVENTORY

WELL CASING	2.0 in. dia. 50 l.f.	WELL SCREEN	2.0 in. dia. 10 l.f.	BENTONITE SEAL	BENTONITE CHIPS
CASING TYPE	SCHEDULE 40 PVC	SCREEN TYPE	SCHEDULE 40 PVC	INSTALLATION METHOD	TREMIE PIPE
JOINT TYPE	THREADED	SLOT SIZE	0.010 INCH SLOT	FILTER PACK QTY	5 50LB BAGS
GROUT QUANTITY	3 BAGS	CENTRALIZERS	NA	FILTER PACK TYPE	20/30 SILICA SAND
GROUT TYPE	PORTLAND CEMENT	DRILLING MUD TYPE	NA	INSTALLATION METHOD	TREMIE PIPE

ELEV./DEPTH	SOIL/ROCK DESCRIPTION
	GROUND SURFACE
0.0	
10	
20	
30	DRY BROWN SAPROLITE
40	
50	DAMP DARK SAPROLITE
60	BORING TERMINATED @ 60 FT
70	
80	
90	

WELL SKETCH



INSTALLATION NOTES

TOTAL DEPTH	60 ft	FT BGS
TOP OF SCREEN	50	FT BGS
BOTTOM OF SCREEN	60	FT BGS
STICK UP (CONSTRUCTION)	—	FT AGS
TOTAL LENGTH	65.25	FT
TOP OF SAND	45.0	FT BGS
TOP OF SEAL	42.0	FT BGS

WELL DEVELOPMENT NOTES

11-17-16

REMOVED ~ 30 GALLONS OF WATER

WATER LT BROWN

Golder Associates

10382746.B

MONITORING WELL INSTALLATION LOG

JOB NO.		PROJECT	PFIZER CAROLINA	WELL NO.	MW-30D	SHEET	1 OF 1
GA INSP.	RCM	DRILLING METHOD	~~HOLLOW STEM AUGER~~ AIR ROTARY	GROUND ELEV.	NA	WATER DEPTH	—
WEATHER	R. 50S	DRILLING COMPANY	COMPLETE WELL & PUMP / ONSITE	COLLAR ELEV.	NA	DATE/TIME	—
TEMP.	90S	DRILL RIG	POSTER T-650 WTC	DRILLER	ALEX	STARTED (TIME / DATE)	11-15-16
						COMPLETED (TIME / DATE)	14:14 11-16-16

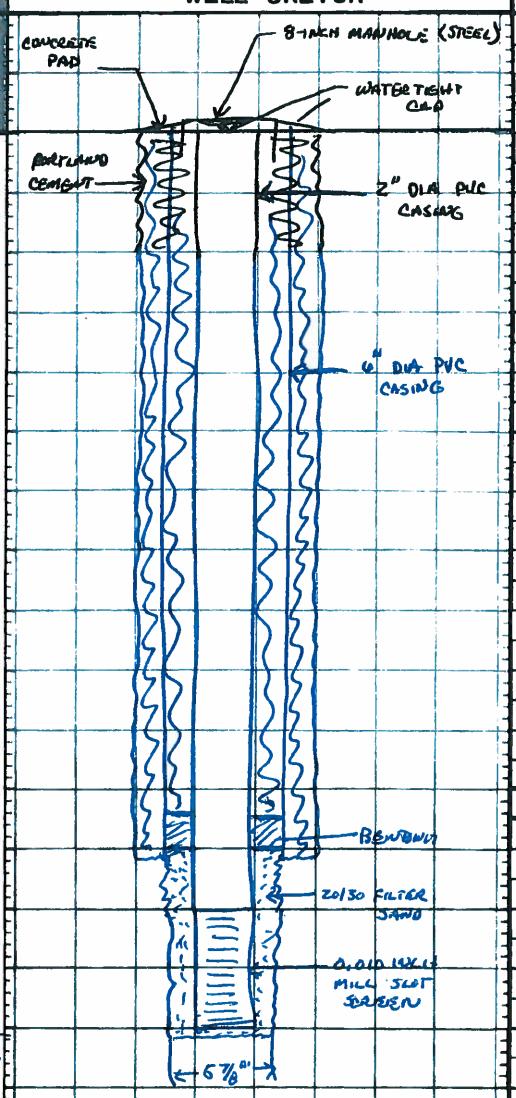
MATERIALS INVENTORY

6.0 - IN DIA 61 FT

WELL CASING	2.0 in. dia. 70 l.f.	WELL SCREEN	2.0 in. dia. 10 l.f.	BENTONITE SEAL	BENTONITE CHIPS
CASING TYPE	SCHEDULE 40 PVC	SCREEN TYPE	SCHEDULE 40 PVC	INSTALLATION METHOD	TREMIE PIPE
JOINT TYPE	THREADED	SLOT SIZE	0.010 INCH SLOT	FILTER PACK QTY	5 BAGS
GROUT QUANTITY	35 BAGS	CENTRALIZERS	NA	FILTER PACK TYPE	20/30 GRADE
GROUT TYPE	PORTLAND CEMENT	DRILLING MUD TYPE	NA	INSTALLATION METHOD	TREMIE PIPE

ELEV/DEPTH	SOIL/ROCK DESCRIPTION
	GROUND SURFACE
0.0	
10	
20	SAPROLITE BROWN DRY
30	
40	ROCK ENCOUNTERED @ 36 FT BGS, WATER ENCOUNTERED
50	
60	
70	
80	BORING TERMINATED @ 76 FT BGS
90	
100	

WELL SKETCH



INSTALLATION NOTES

TOTAL DEPTH	76	FT BGS
TOP OF SCREEN	65	FT BGS
BOTTOM OF SCREEN	75	FT BGS
STICK UP (CONSTRUCTION)	5.25	FT AGS
TOTAL LENGTH	80.25	FT
TOP OF SAND	60	FT BGS
TOP OF SEAL	57	FT BGS

6" DIAMETER PVC CASING INSTALLED TO 61 FT BGS. USED 36 BAGS OF GROUT TO MAKE UP 6 BATCHES TO PUMP INTO ANNULAR SPACE.

WELL DEVELOPMENT NOTES

11-17-16
REMOVED APPROX 90 GALLONS OF WATER

Golder Associates

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: PFIZER CAROLINA	SITE LOCATION: CAROLINA PR	
WELL NO: INJ-31	SAMPLE ID:	DATE: 11/27/14

PURGING DATA

WELL DIAMETER (inches): 6"	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 41 feet to 61 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 51	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 51	PURGING INITIATED AT: 1412	PURGING ENDED AT: 1433	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (Mv)	COLOR/ODOR (describe)
~~1419~~	–	–	–	–	7.03	28.19	1530	1.24 / 16.0	–	161	clear
1422	–	–	–	–	7.03	28.18	1522	1.24 / 16.0	–	166	clear
1427	–	–	–	–	7.03	28.15	1524	1.23 / 15.8	–	167	clear
1430	–	–	–	–	7.03	28.15	1519	1.24 / 16.0	–	165	clear
1433	–	–	–	–	7.04	28.13	1518	1.23 / 15.8	–	165	clear

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R MONGILLO	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT:	SAMPLING ENDED AT: 1439
PUMP OR TUBING DEPTH IN WELL (feet): 51	TUBING MATERIAL CODE: PP	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40 ml	HCL	NA	NA	CHLOR SOLV	RFPP	

REMARKS: PURGED FOR 1 MIN w/ SUB PUMP THEN SAMPLED

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: PFIZER	SITE LOCATION: CAROLINA PR	
WELL NO: INJ-32	SAMPLE ID:	DATE: 11-17-14

PURGING DATA

WELL DIAMETER (inches): 6"	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 58 feet to 78 feet	STATIC DEPTH TO WATER (feet): 19.25	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 68	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 68	PURGING INITIATED AT: 1147 1317	PURGING ENDED AT: 1208 1328	TOTAL VOLUME PURGED (gallons): ~2 gals

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (Mv)	COLOR/ODOR (describe)
1202	–	–	–	–	6.89	28.08	1505	2.08 / 26.8	–	178	CLEAR
1317	–	–	–	–	6.93	27.69	1499	2.52/37.4	–	192	Clear
1325	–	–	–	–	6.93	27.78	1497	2.96/38.0	–	178	Clear
1328	–	–	–	–	6.93	27.83	14.93	2.80/36.0	–	172	Clear

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R MONGILLO JL	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT:	SAMPLING ENDED AT: 1330
PUMP OR TUBING DEPTH IN WELL (feet): 68	TUBING MATERIAL CODE: PP	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40mL	HCL	NA	NA	CHLOR SOLV	PFPP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: PFIZER	SITE LOCATION: CAROLINA P.R.	
WELL NO: INJ-34	SAMPLE ID:	DATE: 11-17-16

PURGING DATA

WELL DIAMETER (inches): 6"	TUBING DIAMETER (inches): 1/4	~~WELL SCREEN~~ OPEN HOLE INTERVAL DEPTH: 43 feet to 63 feet	STATIC DEPTH TO WATER (feet): 17.90 FT BGS	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 53	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 53	PURGING INITIATED AT: 1532	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (Mv)	COLOR/ODOR (describe)
1547	–	–	–	–	7.49	30.95	1308	42/57	–	154	clear
1552	–	–	–	–	7.43	30.97	1312	40.1/55.2	–	163	clear
1556	–	–		–	7.39	30.98	1320	39.2/53.9	–	165	clear
1559	–	–	–	–	7.37	30.93	1318	39.1/54.1	–	164	clear

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: RALPH F. MONGILLO	SAMPLER(S) SIGNATURE(S): Ralph F. Mongillo Jr.	SAMPLING INITIATED AT:	SAMPLING ENDED AT: 1405
PUMP OR TUBING DEPTH IN WELL (feet): 53	TUBING MATERIAL CODE: PP	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ML	HCL	NA	NA	CHLOR SOLV	RFPP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: PFIZER	SITE LOCATION: CAROLINA P.R.
WELL NO: IWS-35	SAMPLE ID:
DATE: 11-17-16	

PURGING DATA

WELL DIAMETER (inches): 6'	TUBING DIAMETER (inches): 1/4	~~WELL SCREEN~~ OPEN HOLE INTERVAL DEPTH: 43 feet to 63 feet	STATIC DEPTH TO WATER (feet): 18.00 FT	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 53	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 53	PURGING INITIATED AT: 1455	PURGING ENDED AT: 1520	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (Mv)	COLOR/ODOR (describe)
1510	–	–	–	–	7.20	30.68	1368	5.44 / 73.4	–	168	clear
1515	–	–	–	–	7.20	30.69	1364	5.37 / 72.5	–	167	clear
1520	–	–	–	–	7.15	30.69	1361	5.3 / 71.4	–	166	clear

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: ROLAN MONGILLO	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: —	SAMPLING ENDED AT: 1525
PUMP OR TUBING DEPTH IN WELL (feet): 53	TUBING MATERIAL CODE: PP	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	40 ML	CG	40 mL	1+CL	NA	NA	CHLOR SOLV	RFPP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: PFIZER	SITE LOCATION: CAROLINA P.R.
WELL NO: INJ-33	SAMPLE ID:
DATE: 11-18-16	

PURGING DATA

WELL DIAMETER (inches): 6"	TUBING DIAMETER (inches): 1/4	~~WELL SCREEN~~ OPEN HOLE INTERVAL DEPTH: 41 feet to 61 feet	STATIC DEPTH TO WATER (feet): ~18.00	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 51	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 51	PURGING INITIATED AT: 815	PURGING ENDED AT: 845	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (Mv)	COLOR/ODOR (describe)
830	–	–	–	–	6.83	28.62	1543	0.2/2.6	–	152	Clear
834	–	–	–	–	6.83	28.62	1541	0.2/2.6	–	150	Clear
839	–	–	–	–	6.83	28.62	1546	0.14/2.2	–	150	Clear
845	–	–	–	–	6.83	28.31	1523	0.17/2.2	–	150	Clear
										1	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: RALPH MONGILLO	SAMPLER(S) SIGNATURE(S): Ralph F Mongillo Jr.	SAMPLING INITIATED AT: –	SAMPLING ENDED AT: 850
PUMP OR TUBING DEPTH IN WELL (feet): 51	TUBING MATERIAL CODE: PP	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40mL	HCL	~~NA~~	NA	EDB SOLN	RFAP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: PFIZER CAROLINA	SITE LOCATION: CAROLINA PR
WELL NO: MW-25	SAMPLE ID:
DATE: 11-18-16	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 30 feet to 40 feet	STATIC DEPTH TO WATER (feet): 18.17	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (40 feet – 18 feet) X 0.16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0026 gallons/foot X 40 feet) + 0.25 gallons = 0.25 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 35	PURGING INITIATED AT: 913	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (Mv)	COLOR/ODOR (describe)
919	0.25	0.25	0.04	18.76	6.15	28.36	1885	0.31/4.6	–	55	clear
924	0.25	0.5	0.04	18.76	6.16	28.44	1872	0.30/3.9	–	54	clear
930	0.25	0.75	0.04	18.74	6.16	28.47	1862	0.23/3.0	–	54	clear
935	0.25	1.0	0.04	18.75	6.15	28.55	1866	0.22/2.8	–	54	clear
938	0.15	1.15	0.04	18.76	6.16	28.52	1863	0.22/2.9	–	54	clear
940	0.10	1.25	0.04	18.74	6.16	28.51	1860	0.22/3.0	–	54	clear

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ralph Mongillo	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT:	SAMPLING ENDED AT: 947
PUMP OR TUBING DEPTH IN WELL (feet): 35	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING (Y) N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40mL	HCL	NA	NA	CHLOR SOLV	RFPP	RFPP

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: PFIZER CAROLINA	SITE LOCATION: CAROLINA PR	
WELL NO: MW-27	SAMPLE ID:	DATE: 11-18-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 32 feet to 42 feet	STATIC DEPTH TO WATER (feet): 17.90 ~~18~~	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0026 gallons/foot X 42 feet) + 0.15 gallons = 0.25 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 37	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 37	PURGING INITIATED AT: 1001	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (Mv)	COLOR/ODOR (describe)
10:10	0.25	0.25	0.05	–		28.59	1560.1	1.84	–	126.0	Light Brown
10:15	0.25	0.50	0.05	18.26		28.61	1546.6	1.73	–	129.8	"
10:20	0.25	0.75	0.05	18.26		28.71	1552.8	1.73	–	153.3	"
10:25	0.25	1.00	0.05	18.26		28.69	1554.2	1.73	–	146.9	"
10:30	0.25	1.25	0.05	18.26		28.71	1550.1	1.79	–	149.2	"
10:35	0.25	1.50	0.05	18.26		28.71	1542.2	1.79	–	152.7	"
10:40	0.25	1.75	0.05	18.26		28.69	1523.3	1.82	–	154.8	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: RALPH	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT:	SAMPLING ENDED AT: 1040
PUMP OR TUBING DEPTH IN WELL (feet): 37	TUBING MATERIAL CODE: PP	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING (Y) N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40mL	HCL	NA	NA	CHLOR SOLVENTS	RFPP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: PFIZER		SITE LOCATION: CAROLINA PR	
WELL NO: MW-28	SAMPLE ID:		DATE: 11-18-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 48 feet to 58 feet	STATIC DEPTH TO WATER (feet): 21.57	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (0.0021 gallons/foot X 58 feet) + 0.15 gallons = 0.3 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 53	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 53	PURGING INITIATED AT: 1116	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (Mv)	COLOR/ODOR (describe)
1124	0.3	0.3	0.06	22.01	6.87	30.20	1555	2.14/28.3	–	163	LT BR
1129	0.3	0.6	0.06	22.01	6.87	30.17	1550	2.96/26.2	–	171	LT BR
1133	0.3	0.9	0.06	22.01	6.87	30.21	1543	2.01/26.7	–	176	LT BR
1136	0.15	1.05	0.05	22.01	6.85	30.16	1536	2.02/26.9	–	178	LT BR
1139	0.15	1.20	0.05	22.01	6.85	30.18	1530	2.02/27.0	–	181	LT BR

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. MONGELLI	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT: 1145
PUMP OR TUBING DEPTH IN WELL (feet): 53	TUBING MATERIAL CODE: PP	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40mL	HCL	NA	NA	CLOR SOLV	RFPP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: PFIZER	SITE LOCATION: CAROLINA PR.	
WELL NO: MW-30D	SAMPLE ID:	DATE: 11-18-16

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 65 feet to 75 feet	STATIC DEPTH TO WATER (feet): 16.35	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (0.0026 gallons/foot X 75 feet) + 0.15 gallons = 0.35 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 70	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT: 1220	TOTAL VOLUME PURGED (gallons): 2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (Mv)	COLOR/ODOR (describe)
1229	0.5	0.5	0.7	16.45	6.93	31.08	1369.2	4.07/53.6	–	169	LT BR
1234	0.5	1.0	0.6	16.45	6.93	31.01	1371.8	4.13/55.3	–	178.0	LT BR
1239	0.25	1.25	0.6	16.45	6.92	30.93	1367	3.95/54.9	–	180	LT BR
1243	0.25	1.50	0.6	16.45	6.91	30.89	1374	3.96/53.5	–	183	LT BR
1248	0.25	1.65	0.6	16.45	6.92	30.84	1374	3.94/53.7		184	LT B

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R MONGALO JR	SAMPLER(S) SIGNATURE(S): Ralph R. Mongalo Jr.	SAMPLING INITIATED AT:	SAMPLING ENDED AT: 1250
PUMP OR TUBING DEPTH IN WELL (feet): 70	TUBING MATERIAL CODE: PP	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40mL	HCL	NA	NA	CHLOR SOLV	RFPP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

Golder Associates

Field Boring Log

DEPTH HOLE 10382746B PROJ. NO. _____ PROJECT PFIZER CAROLINA BORING NO. SB-69

DEPTH SOIL DRILL 36.5 GA INSP. Donald Breton DRILLING METHOD Hollow Stem Auger SHEET 1 OF 4

DEPTH ROCK CORE — WEATHER 81° Partly/Cloudy DRILLING COMPANY AMF SURFACE ELEV. —

ABANDONMENT — DRILL RIG CMESS DRILLER Juan Calderon DATUM —

DEPTHS — / — / — / — (WATER LEVEL / CAVE-IN / DATE-TIME / NOTE) SAMPLER HAMMER TYPE manual WT. 140 lb DROP 3' STARTED 1015 (TIME) 10/25/17 (DATE)

DEPTHS — / — / — / — (DELAYED) (WATER LEVEL / CAVE-IN / DATE-TIME / NOTE) HOLE LOCATION 15' South of MW-25S COMPLETED 1515 (TIME) 10/25/17 (DATE)

SAMPLE TYPES

A.B.	AUGER SAMPLE
C.B.	CHUNK SAMPLE
* D.O.	DRIVE OPEN (SPT)
D.B.	DENISON SAMPLE
F.B.	FOIL SAMPLE
P.B.	PITCHER SAMPLE
S.C.	SOIL CORE
* T.O.	THIN-WALLED, OPEN
* T.P.	THIN-WALLED, PISTON
W.S.	WASH SAMPLE
*	
*	
*	
* NOTE SIZE	

ABBREVIATIONS

ANG	ANGULAR	GR	GRAY	R	RED
BL	BLACK	HE	HETEROGENEOUS	RES	RESIDUAL
BR	BROWN	HO	HOMOGENEOUS	RX	ROCK
C	COARSE	LYD	LAYERED	RND	ROUNDED
CIN	CAVE-IN	M	MEDIUM	SAT	SATURATED
CO	COHESIVE	MIC	MICACEOUS	SD	SAND
CL	CLAY	MOT	MOTTLED	SI	SILT
CLY	CLAYEY	MST	MOIST	SIY	SILTY
D	DRY	NC	NON-COHESIVE	SM	SOME
EL	ELONGATED	NP	NON-PLASTIC	TR	TRACE
F	FINE	OG	ORANGE	WL	WATER LEVEL
FL	FLAT	ORG	ORGANIC	WH	WEIGHT OF HAMMER
FRAG	FRAGMENTS	PP	POCKET PEN	WR	WEIGHT OF RODS
GL	GRAVEL	PL	PLASTIC LIMIT	Y	YELLOW

ORDER OF DESCRIPTION

CONSTITUENTS
1) GROUP SYMBOL
2) SOIL GROUP NAME
3) PRIMARY COMPONENTS (PLUS DESCRIPTION: CLAY, PLASTICITY; SD, SIZE, GRADING; GL, SIZE, GRADING, SHAPE, ROCK TYPE)
4) SECONDARY COMPONENTS
5) MINOR COMPONENTS;

GENERAL
6) COLOR
7) WEATHERING
8) STRUCTURE
9) SENSITIVITY
10) CONTAMINATION
11) MINERALOGY
12) ORIGIN;

BEHAVIOR
13) BEHAVIOR (CO NC)
14) MOISTURE/WATER CONTENT
15) DENSITY/CONSISTENCY

PROPORTIONS

"TRACE"	0 – 5%
"SOME"	5 – 12%
PREFIX "-Y"	12 – 35%
"AND"	35 – 50%

NON-COHESIVE SOILS

RELATIVE DENSITY		BLOWS
VERY LOOSE	VLS	0 – 4
LOOSE	LS	4 – 10
COMPACT	CP	10 – 30
DENSE	DN	30 – 50
VERY DENSE	VDN	>50

MOISTURE CONDITION

DRY	SOIL FLOWS
MOIST	FEELS COOL
WET	WITH FREE WATER

COHESIVE SOILS

CONSISTENCY		PP(TSF)	FINGER PRESSURE
VERY SOFT	VS	<0.25	EXTRUDES
SOFT	S	0.25 - 0.5	MOLDS EASILY
FIRM	FM	0.5 – 1	MOLDS
STIFF	ST	1 – 2	THUMB INDENTS
VERY STIFF	VST	2 – 4	THUMBNAIL INDENTS
HARD	H	>4	RESISTS THUMBNAIL

WATER CONTENT - W

W < PL	CANNOT ROLL 4 mm THREAD
W ~ PL	CAN ROLL THREAD 2 – 4 mm
W > PL	CAN ROLL THREAD <2 mm

ELEV. DEPTH	LITHOLOGY	SAMPLES NO.	TYPE	DEPTH	SPT N / PP(TSF)	BLOWS PER 6 IN	REC / ATT	CONSTITUENTS GL (PROPORTION, SIZE, SHAPE, GRADING, PLASICITY)	SD	CL/SI	BEHAVIOR CO or NC	MOIST. or W	DENS./CONS.	OVA/VOCS	SAMPLE DESCRIPTION AND DRILLING NOTES
2		1	D.O.		86	22 46 40 35	2'/2'							0.4	Rocks, fragments, debris, sand.
4		2	D.O.		76	30 32 44 38	2'/2'							0.1	Sand/gravel mix
6		3	D.O.		18	15 9 9 9	0.9'/1 2							0	Rock, debris, brown sandy clay
8		4	D.O.		5	3 3 2 3	0.9'/2'							0	Rock, debris. Brown sandy clay, moist at bottom
10		5	D.O.		12	4 8 5 10	1.4'/2'							0	Stiff orange/gray sandy clay, moist from 8'-9' 9'-10' sandy brown/orange clay, dry
12		6	D.O.		21	7 9 12 19	1.1'/2'							0	Brown sandy clay, dry
14		7	D.O.		48	14 17 31 20	1.8/2'							0.1	Orange/brown, clay sand, dry
16		8	D.O.		19	6 10 9 12	2'/2'							0.3	Orange/brown, fine sands, dry
18		9	D.O.		38	17 19 19 30	2'/2'							0.3	Orange/brown, fine sands, dry
20		10	D.O.		58	11 19 39 45	2'/2'							0.5	Orange/brown, fine clay sands, dry
22		11	D.O.		96/11"	40 46 50/5"	1.5'/17"							22	20'-21' orange/brown fine clay sands dry 21'-21.5' Brown fine sands, dry *sampled
24		12	D.O.		50/5"	50 50/5"	0.4'/5"							0.7	Brown fine sands, dry
26		13	D.O.		86/12"	26 36 50/6"	1.5'/18"							10.8	Brown fine sands, dry
28		14	D.O.		50/1.5"	17 50/1.5"	0.75'/1'							4.7	Orange/brown clay sands dry
30		15	D.O.		50/2"	50/2"	2"/2"							0.2	Brown sands and rock
32		16	D.O.		50/2	28 50/2"	8"/8"							1.8	Brown/orange with gray fine sands, dry
34		17	D.O.		50/4"	34 50/4"	1.2'/10"							2.5	Brown/orange/gray fine silty sands dry
36		18	D.O.		50/3.5"	30 50/5.5"	9"/9.5"							2.9	Brown/orange/gray, fine, sands, dry
38	36.5'	19	D.O.		50/5.5"	50/5.5"	5.5"/5.5"							1.8	Brown fine sands, encountered water at bottom of cutting shoe. Stopped soil boring
40	END of Boring														

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Field Boring Log

DEPTH HOLE 10382.746B	PROJ. NO.	PROJECT PFIZER CAROLINA	BORING NO. SB-70
DEPTH SOIL DRILL 36.15	GA INSP. Donald Barlow	DRILLING METHOD Hollow Stem Auger	SHEET 2 OF 4
DEPTH ROCK CORE —	WEATHER 80° sunny	DRILLING COMPANY AMF	SURFACE ELEV. —
ABANDONMENT —		DRILL RIG CME55	DRILLER Juan Calderón	DATUM —
DEPTHS — / — / — / — (WATER LEVEL / CAVE-IN / DATE-TIME / NOTE)		SAMPLER HAMMER TYPE MANUAL	WT. 140 DROP 3'	STARTED 0730 (TIME) 10/26/17 (DATE)
DEPTHS — / — / — / — (DELAYED) (WATER LEVEL / CAVE-IN / DATE-TIME / NOTE)		HOLE LOCATION 57' south of MW-25S		COMPLETED 1800 (TIME) 10/26/17 (DATE)

SAMPLE TYPES

A.S.	AUGER SAMPLE
C.S.	CHUNK SAMPLE
* D.O.	DRIVE OPEN (SPT)
D.S.	DENISON SAMPLE
F.S.	FOIL SAMPLE
P.S.	PITCHER SAMPLE
S.C.	SOIL CORE
* T.O.	THIN-WALLED, OPEN
* T.P	THIN-WALLED, PISTON
W.S.	WASH SAMPLE
*	
*	
*	
* NOTE SIZE	

ABBREVIATIONS

ANG	ANGULAR	GR	GRAY	R	RED
BL	BLACK	HE	HETEROGENEOUS	RES	RESIDUAL
BR	BROWN	HO	HOMOGENEOUS	RX	ROCK
C	COARSE	LYD	LAYERED	RND	ROUNDED
CIN	CAVE-IN	M	MEDIUM	SAT	SATURATED
CO	COHESIVE	MIC	MICACEOUS	SD	SAND
CL	CLAY	MOT	MOTTLED	SI	SILT
CLY	CLAYEY	MST	MOIST	SIY	SILTY
D	DRY	NC	NON-COHESIVE	SM	SOME
EL	ELONGATED	NP	NON-PLASTIC	TR	TRACE
F	FINE	OG	ORANGE	WL	WATER LEVEL
FL	FLAT	ORG	ORGANIC	WH	WEIGHT OF HAMMER
FRAG	FRAGMENTS	PP	POCKET PEN.	WR	WEIGHT OF RODS
GL	GRAVEL	PL	PLASTIC LIMIT	Y	YELLOW

ORDER OF DESCRIPTION

1) GROUP SYMBOL
2) SOIL GROUP NAME
3) PRIMARY COMPONENTS
4) SECONDARY COMPONENTS
5) MINOR COMPONENTS:
6) COLOR
7) WEATHERING
8) STRUCTURE
9) SENSITIVITY
10) CONTAMINATION
11) MINERALOGY
12) ORIGIN:
13) BEHAVIOR (COHC)
14) MOISTURE/WATER CONTENT
15) DENSITY/CONSISTENCY

(PLUS DESCRIPTION: CLAY: PLASTICITY; SILT: SIZE, GRADING; SAND, GRAVEL: SIZE, GRADING, SHAPE, ROCK TYPE)

PROPORTIONS

"TRACE"	0 – 5%
"SOME"	5 – 12%
PREFIX "-Y"	12 – 35%
"AND"	35 – 50%

NON-COHESIVE SOILS

RELATIVE DENSITY		BLOWS
VERY LOOSE	VLS	0 – 4
LOOSE	LS	4 – 10
COMPACT	CP	10 – 30
DENSE	DN	30 – 50
VERY DENSE	VDN	>50

MOISTURE CONDITION

DRY	SOIL FLOWS
MOIST	FEELS COOL
WET	WITH FREE WATER

COHESIVE SOILS

CONSISTENCY		PP(TSF)	FINGER PRESSURE
VERY SOFT	VS	<0.25	EXTRUDES
SOFT	S	0.25 – 0.5	MOLDS EASILY
FIRM	FM	0.5 – 1	MOLDS
STIFF	ST	1 – 2	THUMB INDENTS
VERY STIFF	VST	2 – 4	THUMBNAIL INDENTS
HARD	H	>4	RESISTS THUMBNAIL

WATER CONTENT - W

W < PL	CANNOT ROLL 4 mm THREAD
W ~ PL	CAN ROLL THREAD 2 – 4 mm
W > PL	CAN ROLL THREAD <2 mm

ELEV. DEPTH	LITHOLOGY	SAMPLES NO.	TYPE	DEPTH	SPT N / PP(TSF)	BLOWS PER 6 IN	REC / ATT	CONSTITUENTS GL	SD	CL/SI	BEHAVIOR CO or NC	MOIST or W	DENS. CONS.	OVA (ppm)	SAMPLE DESCRIPTION AND DRILLING NOTES
2	AUGER Down														
4															
6															
8															
10		1	D.O.		22	5 9 13 12	2/2							9.4	Orange/brown with gray sands, fine, dry
12		2	D.O.		40	19 19 21 21	2/2							20.6	Orange/gray clay sand, fine, dry took soil sample
14		3	D.O.		30	8 12 18 27	2/2							7.5	Orange/brown w/gray clay sand, fine dry
16		4	D.O.		50/4.5	39 50/4.5	0.9/9.5							0.9	Orange brown clay sands, fine, dry
18		5	D.O.		24/5	40 34 50/5"	1.6/17"							46.1	Orange/brown medium/firm sands, dry
20		6	D.O.		50/6"	50/6"	0.8/0.5"							46.6	Orange/brown medium/firm sands, dry,
22		7	D.O.		50/4.5"	39 50/4.5"	1.2/9.5"							63.0	Orange/brown fine coarse sand, dry slight gravel, staining, took soil sample
24		8	D.O.		35/6"	26 55/6"	10/1'							26.3	Brown fine/coarse sands, dry slight petroleum odor, staining
26		9	D.O.		50/5"	50/5"	9.4/5"							0.1	Brown/orange fine sands, dry
28		10	D.O.		50/2.5"	50/2.5"	8.8/2.5"							13.5	Brown fine sands, rock, debris, dark brown staining, slight odor, dry
30		11	D.O.		50/2.5"	50/2.5"	0.5/2.5"							2.7	Brown/orange fine/coarse sands, dry rock
32		12	D.O.		50/3"	50/3"	0/3"							0	No Recovery
34		13	D.O.		50/2"	50/2"	0.5/2"							0.1	Brown/orange fine sands, dry
36	36.15'	14	D.O.		50/1.5"	50/1.5"	2.4/1.5"							0.4	Brown fine/coarse sands, rock, water encountered at bottom 36.1' 1.5" end soil boring
38															
40	END OF BORING														

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Field Boring Log

DEPTH HOLE 10382746B PROJ. NO. ____ PROJECT PFIZER CAROLINA BORING NO. SB-71

DEPTH SOIL DRILL 36' GA INSP. Dennis Burton DRILLING METHOD Hollow Stem Auger SHEET 3 OF 4

DEPTH ROCK CORE — WEATHER 84° cloudy DRILLING COMPANY AMF SURFACE ELEV. —

ABANDONMENT — DRILL RIG CME55 DRILLER Juan Calderón DATUM —

DEPTHS (WATER LEVEL / CAVE-IN / DATE TIME / NOTE) — SAMPLER HAMMER TYPE manual WT. 140 DROP 3' STARTED 1240 (TIME) 10/26/17 (DATE)

DEPTHS (DELAYED) (WATER LEVEL / CAVE-IN / DATE-TIME / NOTE) — HOLE LOCATION 15' west of the side walk COMPLETED 0815 (TIME) 10/27/17 (DATE)

SAMPLE TYPES

A.S.	AUGER SAMPLE
C.S.	CHUNK SAMPLE
* D.O.	DRIVE OPEN (SPT)
D.S.	DENISON SAMPLE
F.S.	FOIL SAMPLE
P.S.	PITCHER SAMPLE
S.C.	SOIL CORE
* T.O.	THIN-WALLED, OPEN
* T.P.	THIN-WALLED, PISTON
W.S.	WASH SAMPLE
*	
*	
*	
* NOTE SIZE	

ABBREVIATIONS

ANG	ANGULAR	GR	GRAY	R	RED
BL	BLACK	HE	HETEROGENEOUS	RES	RESIDUAL
BR	BROWN	HO	HOMOGENEOUS	RX	ROCK
C	COARSE	LYD	LAYERED	RND	ROUNDED
CIN	CAVE-IN	M	MEDIUM	SAT	SATURATED
CO	COHESIVE	MIC	MICACEOUS	SD	SAND
CL	CLAY	MOT	MOTTLED	SI	SILT
CLY	CLAYEY	MST	MOIST	SIY	SILTY
D	DRY	NC	NON-COHESIVE	SM	SOME
EL	ELONGATED	NP	NON-PLASTIC	TR	TRACE
F	FINE	OG	ORANGE	WL	WATER LEVEL
FL	FLAT	ORG	ORGANIC	WH	WEIGHT OF HAMMER
FRAG	FRAGMENTS	PP	POCKET PEN	WR	WEIGHT OF RODS
GL	GRAVEL	PL	PLASTIC LIMIT	Y	YELLOW

ORDER OF DESCRIPTION

CONSTITUENTS: 1) GROUP SYMBOL; 2) SOIL GROUP NAME; 3) PRIMARY COMPONENTS; 4) SECONDARY COMPONENTS; 5) MINOR COMPONENTS; 6) COLOR

GENERAL: 7) WEATHERING; 8) STRUCTURE; 9) SENSITIVITY; 10) CONTAMINATION; 11) MINEROLOGY; 12) ORIGIN; 13) BEHAVIOR (COHS); 14) MOISTURE/WATER CONTENT; 15) DENSITY/CONSISTENCY

PLUS DESCRIPTION: GL GL PLASTICITY; SD SIZE, GRADING; UL DRY, TOUGHNESS; SHAPE, ROCK TYPE

PROPORTIONS

"TRACE"	0 – 5%
"SOME"	5 – 12%
PREFIX "-Y"	12 – 35%
"AND"	35 – 50%

NON-COHESIVE SOILS

RELATIVE DENSITY		BLOWS
VERY LOOSE	VLS	0 – 4
LOOSE	LS	4 – 10
COMPACT	CP	10 – 30
DENSE	DN	30 – 50
VERY DENSE	VDN	>50

MOISTURE CONDITION: DRY — SOIL FLOWS; MOIST — FEELS COOL; WET — WITH FREE WATER

COHESIVE SOILS

CONSISTENCY		PP(TSF)	FINGER PRESSURE
VERY SOFT	VS	<0.25	EXTRUDES
SOFT	S	0.25 – 0.5	MOLDS EASILY
FIRM	FM	0.5 – 1	MOLDS
STIFF	ST	1 – 2	THUMB INDENTS
VERY STIFF	VST	2 – 4	THUMBNAIL INDENTS
HARD	H	>4	RESISTS THUMBNAIL

WATER CONTENT - W: W < PL — CANNOT ROLL 4 mm THREAD; W ~ PL — CAN ROLL THREAD 2 – 4 mm; W > PL — CAN ROLL THREAD <2 mm

ELEV. / DEPTH	LITHOLOGY	SAMPLE NO.	TYPE	DEPTH	SPT N / PP(TSF)	BLOWS PER 6 IN	REC / ATT	CONSTITUENTS GL	SD	CL/SI	BEHAVIOR CO or NC	MOIST or W	DENS/CONS.	OVA PPM	SAMPLE DESCRIPTION AND DRILLING NOTES
		1	D.O.		34	16 18 16 17	1.2/2							0.1	Brown sand and rock debris, dry
2		2	D.O.		35	35 16 19 14	1.4/2							0.3	Brown clay sand firm, dry rock debris
4		3	D.O.		10	4 3 7 11	1.8/2							8	Brown sandy clay with rock debris dry
6		4	D.O.		10	3 5 5 8	1.5/2							0	Brown sand clay with rock debris, dry
8		5	D.O.		5	3 3 2 4	1.0/2							0	Top 10" Brown sandy clay with rock debris Bottom 2" Gray clay with coarse sands
10		6	D.O.		10	3 5 5 6	2/2							0.6	Gray/orange clay, silty sands, wet through out sample
12		7	D.O.		9	3 4 5 8	2/2							0	orange with gray clay, top 2" are moist 10" bottom is dry dry
14		8	D.O.		11	3 5 6 14	2/2							0	gray clay with orange on top top 10" silty sands bottom 2" orange sandy clay
16		9	D.O.		30	20 19 50/2"	2/2"							0.1	Top 18" orange ~~sand~~ clay sand, dry Bottom 6" gray clay with silty sands dry
18		10	D.O.		50/2.5	20 50/2.5	10"/9.5							0	orange/brown fine/coarse sands dry
20		11	D.O.		50/6"	50/6"	0/20"							0	no recovery
22		12	D.O.		50/3.5"	50/3.5"	4"/3.5"							0	orange/brown coarse sands dry
24		13	D.O.		50/3"	50/3"	2"/3"							0	orange/brown sands, dry
26		14	D.O.		50/4 1/4"	50/4 1/4"	4.5"/4.5"							0	orange/brown sands dry
28		15	D.O.		50/1.5"	50/1.5"	0/1.5"							0	no recovery and boring fracture dry due to rain storm 15:15
30		16	D.O.		50/1.0"	50/1.0"	10"/1.0"							0	brown/orange coarse sands dry
32		17	D.O.		50/1.5"	50/1.5"	0/1.5"							0	no recovery
34		18	D.O.		50/2.5	50/2.5	10"/2.0							0	orange/brown coarse fine sand, dry
36															36' 9" hit a layer impenetrable with HSA augers. ended soil boring
38	36' 9"														
40	END OF BORING														

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Field Boring Log

DEPTH HOLE 103827468	PROJ. NO.	PROJECT PFIZER CAROLINA	BORING NO. SB-72
DEPTH SOIL DRILL 37.5	GA INSP. Donald Burkhart	DRILLING METHOD Hollow Stem Augers	SHEET 4 OF 4
DEPTH ROCK CORE —	WEATHER 81° Sunny	DRILLING COMPANY AMF	SURFACE ELEV. —
ABANDONMENT —		DRILL RIG CME 55 / DRILLER Juan Calderon	DATUM —
DEPTHS — / — / — / — (WATER LEVEL / CAVE-IN / DATE-TIME / NOTE)		SAMPLER HAMMER TYPE manual / WT. 140 lb / DROP 3'	STARTED 0900 (TIME) 04/27/17 (DATE)
DEPTHS — / — / — / — (DELAYED WATER LEVEL / CAVE-IN / DATE-TIME / NOTE)		HOLE LOCATION 24' EASE of MW-25S	COMPLETED 1300 (TIME) 04/27/17 (DATE)

SAMPLE TYPES

A.S.	AUGER SAMPLE
C.S.	CHUNK SAMPLE
* D.O.	DRIVE OPEN (SPT)
D.S.	DENISON SAMPLE
F.S.	FOIL SAMPLE
P.S.	PITCHER SAMPLE
S.C.	SOIL CORE
* T.O.	THIN-WALLED, OPEN
* T.P.	THIN-WALLED, PISTON
W.S.	WASH SAMPLE
*	
*	
*	
* NOTE SIZE	

ABBREVIATIONS

ANG	ANGULAR	GR	GRAY	R	RED
BL	BLACK	HE	HETEROGENEOUS	RES	RESIDUAL
BR	BROWN	HO	HOMOGENEOUS	RX	ROCK
C	COARSE	LYD	LAYERED	RND	ROUNDED
CIN	CAVE-IN	M	MEDIUM	SAT	SATURATED
CO	COHESIVE	MIC	MICACEOUS	SD	SAND
CL	CLAY	MOT	MOTTLED	SI	SILT
CLY	CLAYEY	MST	MOIST	SIY	SILTY
D	DRY	NC	NON-COHESIVE	SM	SOME
EL	ELONGATED	NP	NON-PLASTIC	TR	TRACE
F	FINE	OG	ORANGE	WL	WATER LEVEL
FL	FLAT	ORG	ORGANIC	WH	WEIGHT OF HAMMER
FRAG	FRAGMENTS	PP	POCKET PEN	WR	WEIGHT OF RODS
GL	GRAVEL	PL	PLASTIC LIMIT	Y	YELLOW

ORDER OF DESCRIPTION

CONSTITUENTS
1) GROUP SYMBOL
2) SOIL GROUP NAME
3) PRIMARY COMPONENTS
4) SECONDARY COMPONENTS
5) MINOR COMPONENTS ;

GENERAL
6) COLOR
7) WEATHERING
8) STRUCTURE
9) SENSITIVITY
10) CONTAMINATION
11) MINEROLOGY
12) ORIGIN ;

BEHAVIOR
13) BEHAVIOR (COHC)
14) MOISTURE/WATER CONTENT
15) DENSITY/CONSISTENCY

PLUS DESCRIPTION
CL/SI PLASTICITY
SD SIZE, GRADING
GL SIZE, GRADING, SHAPE, ROCK TYPE

PROPORTIONS

"TRACE"	0 – 5%
"SOME"	5 – 12%
PREFIX "-Y"	12 – 35%
"AND"	35 – 50%

NON-COHESIVE SOILS

RELATIVE DENSITY		BLOWS
VERY LOOSE	VLS	0 – 4
LOOSE	LS	4 – 10
COMPACT	CP	10 – 30
DENSE	DN	30 – 50
VERY DENSE	VDN	>50

MOISTURE CONDITION

DRY	SOIL FLOWS
MOIST	FEELS COOL
WET	WITH FREE WATER

COHESIVE SOILS

CONSISTENCY		PP(TSF)	FINGER PRESSURE
VERY SOFT	VS	<0.25	EXTRUDES
SOFT	S	0.25 - 0.5	MOLDS EASILY
FIRM	FM	0.5 – 1	MOLDS
STIFF	ST	1 – 2	THUMB INDENTS
VERY STIFF	VST	2 – 4	THUMBNAIL INDENTS
HARD	H	>4	RESISTS THUMBNAIL

WATER CONTENT - W

W < PL	CANNOT ROLL 4 mm THREAD
W ~ PL	CAN ROLL THREAD 2 – 4 mm
W > PL	CAN ROLL THREAD <2 mm

ELEV. DEPTH	LITHOLOGY	SAMPLES NO.	TYPE	DEPTH	SPT N / PP(TSF)	BLOWS PER 6 IN	REC / ATT	CONSTITUENTS GL	SD	CL/SI	BEHAVIOR CO or NC	MOIST or W	DENS. CONS.	OVA (ppm)	SAMPLE DESCRIPTION AND DRILLING NOTES
		1	D.O.		67	7 30 37 16	1.8/2							0	Brown sands and rock debris dry
2		2	D.O.		47	14 24 23 14	2/2							0	Brown sand and rock debris dry
4		3	D.O.		22	6 11 11 11	1.2/2							1.5	Brown ~~sandy~~ clay sand with rock debris, dry, coarse sands, slight odor in rocks
6		4	D.O.		13	5 5 8 12	10"/2							0.5	Brown sandy clay with rock debris wet through out
8		5	D.O.		20	8 8 12 18	1.2/2							0	Dark gray clay sands with rock debris top 7" first is wet gray rock
10		6	D.O.		16	14 7 9 5	1.1/2							0	Top 7" is gray wet rock Bottom 6" is orange sandy clay fines dry
12		7	D.O.		16	4 7 9 15	1.8/2							9.5	orange sandy clay ~~mix~~ brown/gray clay into the bottom 3" brown coarse sand dry
14		8	D.O.		18	6 7 11 14	1/2							8.3	orange with gray ~~sandy~~ silty fine/coarse sand clay sand dry
16		9	D.O.		58	15 24 34 50	1.2/2							3.6	dry orange with gray ~~sandy~~ silty fine/coarse clay sand
18		10	D.O.		48	12 18 30 54	1.4/2							0.3	orange/brown clay sand silty fines dry
20		11	D.O.		50/7	25 36 50/4	13"/15"							0.3	Brown/orange fine/coarse sands dry
22		12	D.O.		50/4"	50/4"	7"/4"							7.5	Brown/orange fine/coarse sands dry
24		13	D.O.		50/2.5"	50/2.5"	2.5"/2.5"							0.1	Brown/orange coarse sands dry
26		14	D.O.		50/4"	50/4"	8"/4"							0.9	Brown/gray fine/coarse sands dry
28		15	D.O.		50/2.5"	50/2.5"	3"/2.5"							0.9	Brown/gray fine/coarse sands, dry
30		16	D.O.		50/3"	50/3"	4"/3"							1.0	Brown/orange/gray fine/coarse sands, dry
32		17	D.O.		50/2.5"	50/2.5"	0.5"/2.5"							0	Brown/orange fine coarse sands, dry,
34		18	D.O.		50/2.5"	50/2.5"	2"/2.5"							0.4	Brown/orange coarse sands, dry
36		19	D.O.		50/1"	50/1"	6/1"							0	No recovery
38	37.5'	20					/								37.5 drill rig could not proceed due to impenetrable layer end of soil boring
40	End of Boring														

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Page ___ of ___

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Field Instrument VOC Calibration Records

INSTRUMENT (MAKE/MODEL NO.) *PID MiniRAE* **INSTRUMENT NO.** _____

STANDARD INFORMATION

Project Number: 103-82746B **Project Name:** Pfizer Carolina

Standard Vendor: _____

Prepared Date: _____ **Where Prepared:** *GOLDER ASSOCIATES*

Purchase Date: _____ **Expiration Date:** _____ **Grade:** *N/A* **Units:** *ppm*

Standard *0 Air* **Lot #** _____ **Exp Date** _____ **Purch Date** _____

Standard *10 ppm* **Lot #** _____ **Exp Date** _____ **Purch Date** _____

Standard *100 ppm* **Lot #** _____ **Exp Date** _____ **Purch Date** _____

DATE (mm/dd/yy)	TIME (hr:min)	TEMP DEG C	STD VALUE	INSTRUMENT RESPONSE	% DEV	PASS/ FAIL	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
04/25/17	0900	28.88	100 ppm	100.2 ppm	< ± 5%	P	NO	INIT	DWB
04/25/17	1705	30.55	DWB ~~98 ppm~~ 100 ppm	98 ppm	< ± 5%	P	No	Cont	DWB
04/26/17	0705	26.11	100 ppm	100.1 ppm	< ± 5%	P	No	Cont	DWB
04/26/17	1600	31.33	100 ppm	98.4 ppm	< ± 5%	P	No	Cont	DWB
04/27/17	0715	23.33	100 ppm	96.6 ppm	< ± 5%	P	No	Cont	DWB
04/27/17	1313	29.44	100 ppm	100.4 ppm	< ± 5%	P	No	Final	DWB

Acceptable calibration check is if the meter reads within +/- 5% of the value of appropriate calibration standard.

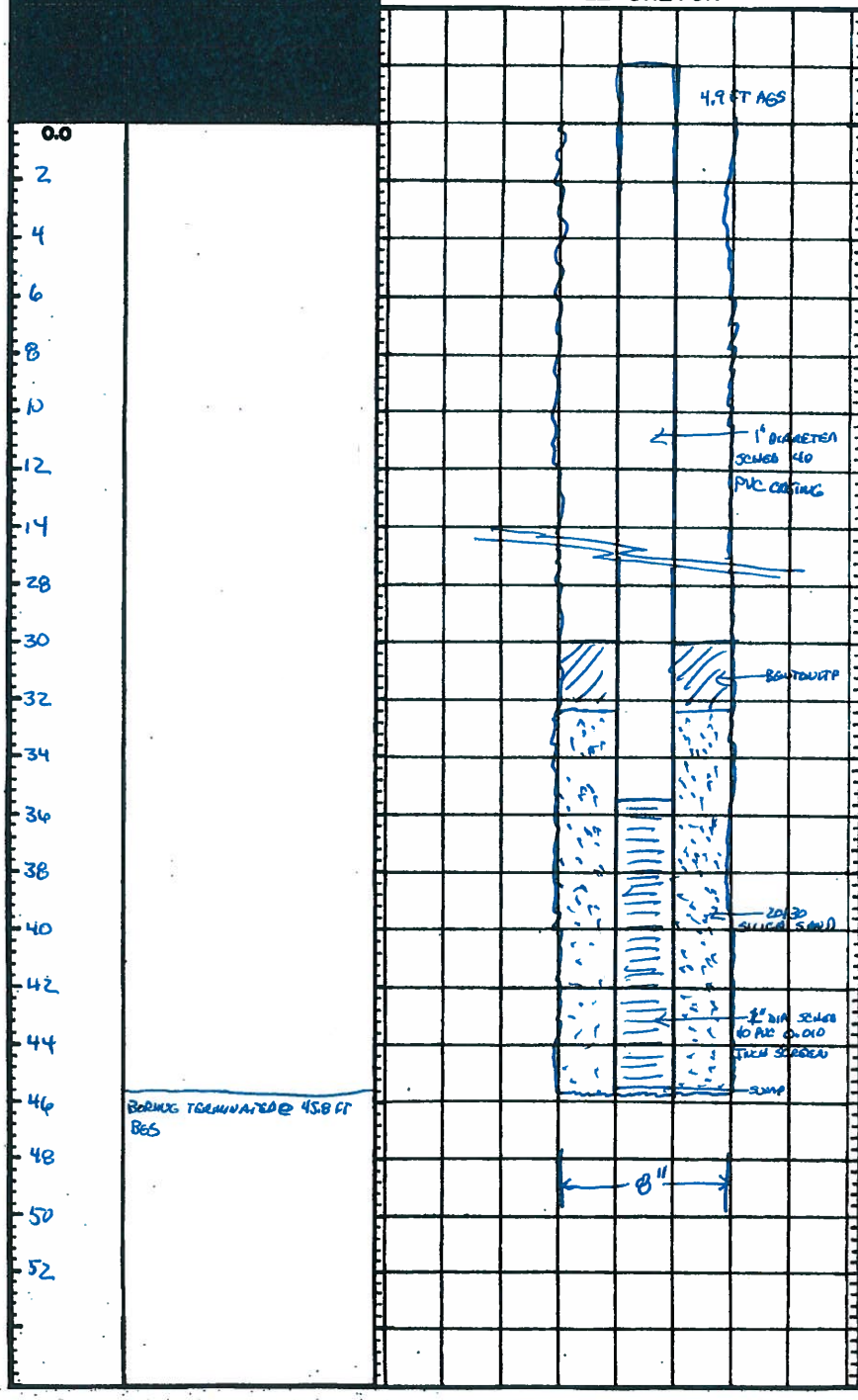
MONITORING WELL INSTALLATION LOG

JOB NO. 1038Z746B	PROJECT PFIZER CAROLINA			WELL NO. ~~GW-6B~~ GW-6B		SHEET 1	OF 1
GA INSP. RFM	DRILLING METHOD AIR ROTARY			GROUND ELEV. NA		WATER DEPTH —	
WEATHER OC	DRILLING COMPANY P.C			COLLAR ELEV. NA		DATE/TIME —	
TEMP. 80S	DRILL RIG AIR ROTARY	DRILLER KEVIN		STARTED 1350 (TIME)	4-25-17 (DATE)	COMPLETED 1000 (TIME)	4-26-17 (DATE)

MATERIALS INVENTORY

WELL CASING	1.D in. dia. 40.1 ~~[illegible]~~ l.f.	WELL SCREEN	1.D in. dia. 10 l.f.	BENTONITE SEAL	BENCH SHELL BENT 1/4"
CASING TYPE	SCHED 40 PVC	SCREEN TYPE	SCHED 40 PVC	INSTALLATION METHOD	POUR IN BOREHOLE
JOINT TYPE	THREADED	SLOT SIZE	0.010 INCH DIA	FILTER PACK QTY.	10 BAGS
GROUT QUANTITY	NA	CENTRALIZERS	NA	FILTER PACK TYPE	20/30 SILICA SAND
GROUT TYPE	NA	DRILLING MUD TYPE	NA	INSTALLATION METHOD	POUR IN BOREHOLE & TAG

WELL SKETCH



INSTALLATION NOTES

TOTAL LENGTH OF WELL - 50.1 FT
INITIAL STICK UP - 4.9 FT AGS
TOTAL DEPTH 45.8 FT
TOP OF SCREEN - 35.43 FT
BOTTOM OF SCREEN 45.50 FT BGS
TOP OF SAND - 32.2 FT
TOP OF BENTONITE 30.0 FT

WELL WAS REMOVED AND BOREHOLE ABANDONED WITH GROUT ON 5-1-17

WELL DEVELOPMENT NOTES

4/26/17
PURGED 8 GALLONS OF WATER PRIOR TO GRABBING GROUNDWATER SAMPLE FOR LABORATORY ANALYSIS

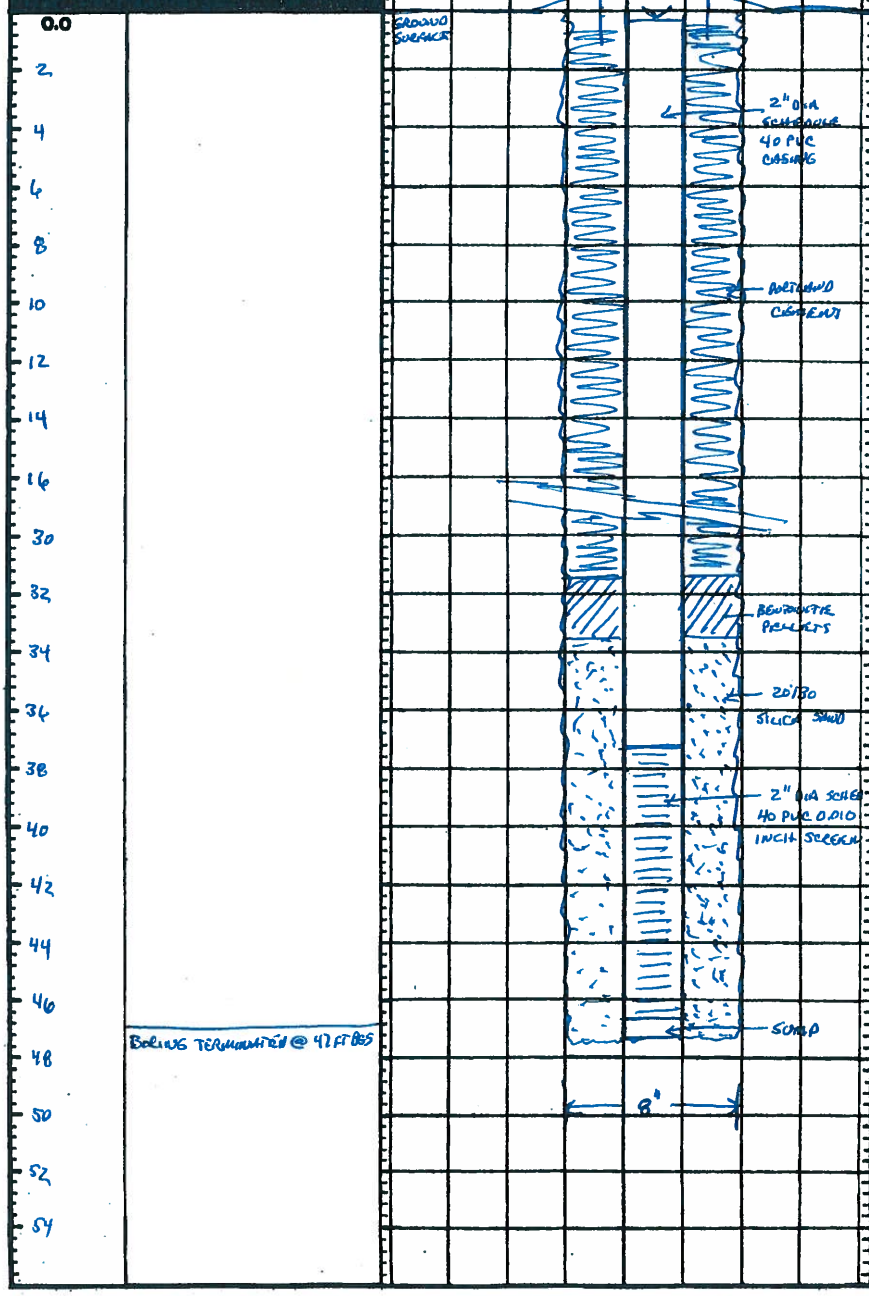
MONITORING WELL INSTALLATION LOG

JOB NO. 1038274GB	PROJECT PFIZER CAROLINA	WELL NO. MW-26S	SHEET 1 OF 1
GA INSP. RFM	DRILLING METHOD AIR ROTARY	GROUND ELEV. NA	WATER DEPTH >
WEATHER OC	DRILLING COMPANY P.C	COLLAR ELEV. NA	DATE/TIME —
TEMP. 80s	DRILL RIG AIR ROTARY	DRILLER KEVIN	STARTED 1224 / 4/26/17 (TIME / DATE) COMPLETED — / 4/27/17 (TIME / DATE)

MATERIALS INVENTORY

WELL CASING 2.0 in. dia. 37 l.f.	WELL SCREEN 2.0 in. dia. 10 l.f.	BENTONITE SEAL DELAYED SWELL BENT 3/4"
CASING TYPE SCHED 40 PVC	SCREEN TYPE SCHED 40 PVC	INSTALLATION METHOD DROP IN BOREHOLE
JOINT TYPE THREADED	SLOT SIZE 0.010 INCH	FILTER PACK QTY. 9 Bags of sand
GROUT QUANTITY —	CENTRALIZERS N/A	FILTER PACK TYPE 20/30 SILICA SAND
GROUT TYPE PORTLAND CEMENT	DRILLING MUD TYPE NA	INSTALLATION METHOD POUR IN BOREHOLE & TAG DEPTH

WELL SKETCH



INSTALLATION NOTES

TOTAL LENGTH OF WELL - 50.25 FT
INITIAL STICKUP - 2.9 FT AGS
TOTAL DEPTH - 47.37 FT BGS
TOP OF SCREEN 37.24 FT BGS
BOTTOM OF SCREEN - 46.75 FT BGS
TOP OF SAND - 33.5 FT BGS
TOP OF BENTONITE - 31.5 FT BGS

WELL DEVELOPMENT NOTES

5-1-17
702 STARTED WELL DEVELOPMENT
WATER ORANGE BROWN/TURBID
732 STOP DEVELOPMENT
WATER CLEAN NOT TURBID
REMOVED 60 GALLONS

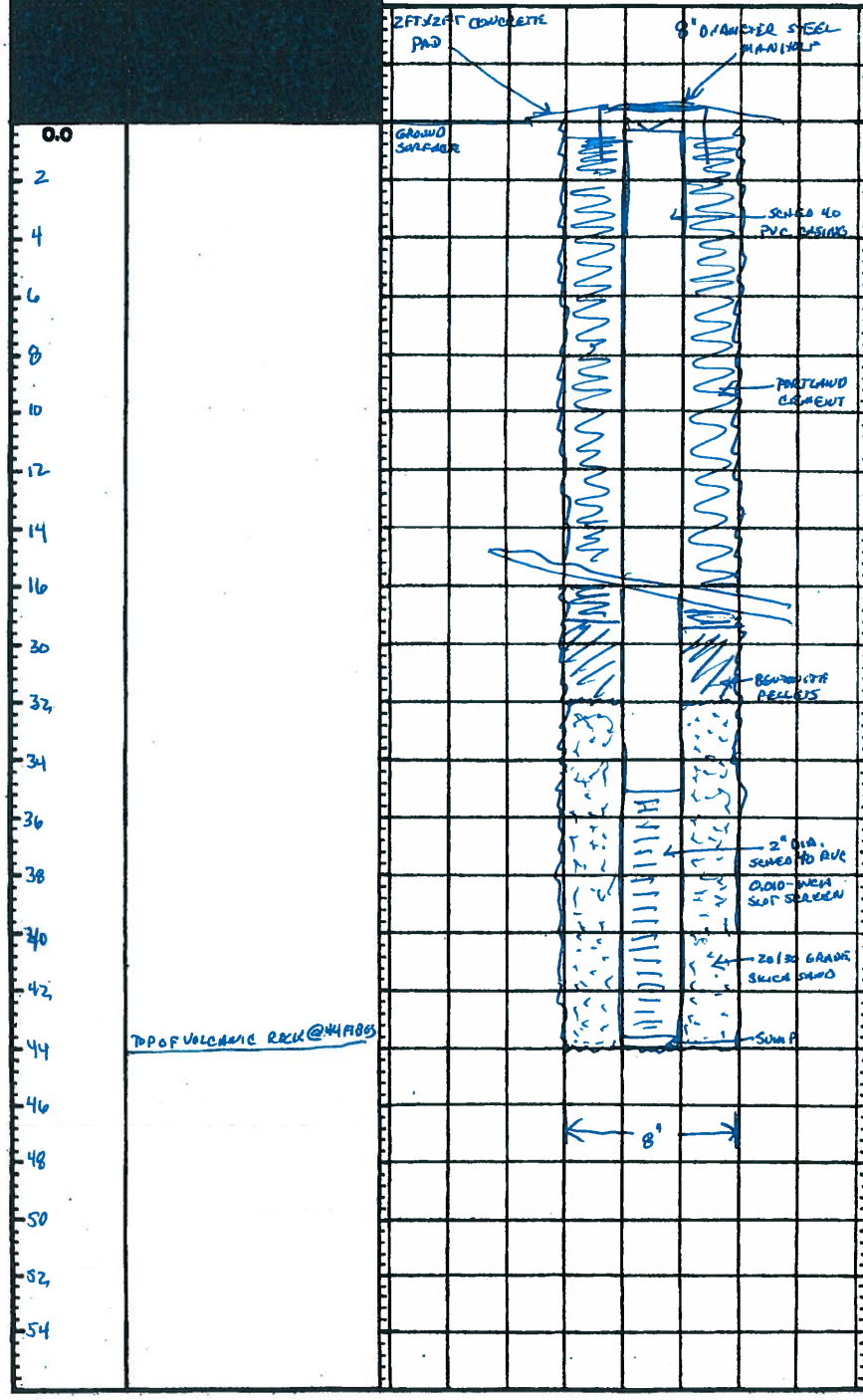
MONITORING WELL INSTALLATION LOG

JOB NO. 103B2746B	PROJECT PFIZER CAROLINA			WELL NO. MW-29S		SHEET 1 OF 1	
GA INSP. RFM	DRILLING METHOD AIR ROTARY			GROUND ELEV. NA ft		WATER DEPTH —	
WEATHER PC	DRILLING COMPANY P.C.			COLLAR ELEV. NA		DATE/TIME —	
TEMP. 80s	DRILL RIG AIR ROTARY	DRILLER KEVIN		STARTED 1117 / 4/27/17 (TIME / DATE)		COMPLETED — / 4-27-17 (TIME / DATE)	

MATERIALS INVENTORY

WELL CASING	2.0 in. dia. 34 l.f.	WELL SCREEN	2.0 in. dia. 10 l.f.	BENTONITE SEAL	DRY SWELL BENT PELLS 1/4"
CASING TYPE	SCHED 40 PVC	SCREEN TYPE	SCHED 40 PVC	INSTALLATION METHOD	POUR IN BOREHOLE
JOINT TYPE	THREADED	SLOT SIZE	0.010-INCH SLOT	FILTER PACK QTY	8 BAGS
GROUT QUANTITY	—	CENTRALIZERS	NA	FILTER PACK TYPE	20/30 SILICA SAND
GROUT TYPE	PORTLAND CEMENT	DRILLING MUD TYPE	NA	INSTALLATION METHOD	POUR IN BOREHOLE + TRIE

WELL SKETCH



INSTALLATION NOTES

TOTAL LENGTH OF WELL - 45.35 FT
INITIAL STICKUP - 1.40 FT
TOTAL DEPTH - 43.95 FT BGS
TOP OF SCREEN - 35.08 FT BGS
BOTTOM OF SCREEN - 43.49 FT BGS
TOP OF SAND - 32.0 FT BGS
TOP OF BENTONITE - 29.0 FT BGS

WELL DEVELOPMENT NOTES

5-1-17
917 STARTED DEVELOPMENT
BROWN / ORANGE BROWN TURBID WATER
959 STOPPED DEVELOPMENT
WATER CLEAR W/ TURBIDITY
REMOVED 75 GALLONS

MONITORING WELL INSTALLATION LOG

JOB NO. 10382746B	PROJECT PFIZER CAROLINA	WELL NO. MW-31S	SHEET 1 OF 1
GA INSP. RCM	DRILLING METHOD AIR ROTARY	GROUND ELEV. NA	WATER DEPTH —
WEATHER OC	DRILLING COMPANY	COLLAR ELEV. NA	DATE/TIME —
TEMP. 80s	DRILL RIG AIR ROTARY DRILLER KEVIN	STARTED [illegible] 4/28/17 (TIME / DATE)	COMPLETED 4/28/17 (TIME / DATE)

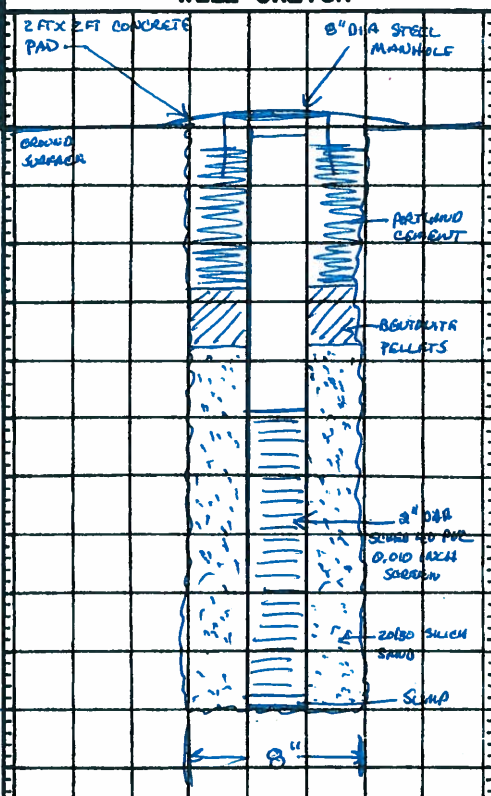
MATERIALS INVENTORY

WELL CASING 2.0 in. dia. 10 l.f.	WELL SCREEN 2.0 in. dia. 10 l.f.	BENTONITE SEAL DELAYED SWELL BENT 1/4
CASING TYPE SCHED 40 PVC	SCREEN TYPE SCHED 40 PVC	INSTALLATION METHOD POUR IN BOREHOLE
JOINT TYPE THREADED	SLOT SIZE 0.010 - INCH	FILTER PACK QTY. 8 BAGS
GROUT QUANTITY —	CENTRALIZERS NA	FILTER PACK TYPE 20/30 SILICA SAND
GROUT TYPE PORTLAND CEMENT	DRILLING MUD TYPE NA NA	INSTALLATION METHOD POUR IN BORE HOLE & TAG DEPTH

0.0
2
4
6
8
10
12
14
16
18
20
22
24

TOP OF VOLCANIC ROCK @ 20 FT BGS

WELL SKETCH



INSTALLATION NOTES

TOTAL LENGTH OF WELL - 20.35 FT
INITIAL STICKUP - 0.38 FT AGS
TOTAL DEPTH - 19.97 FT BGS
TOP OF SCREEN - 9.88 FT BGS
BOTTOM OF SCREEN - 15.50 FT BGS
TOP OF SAND - 7.4 FT BGS
TOP OF BENTONITE - 5.6 FT BGS

WELL DEVELOPMENT NOTES

5-1-17
1016 STARTED DEVELOPMENT
ORANGE BROWN TURBID
1048 STOPPED WELL DEVELOPMENT
CLEAR NOT TURBID
45 GALLONS REMOVED

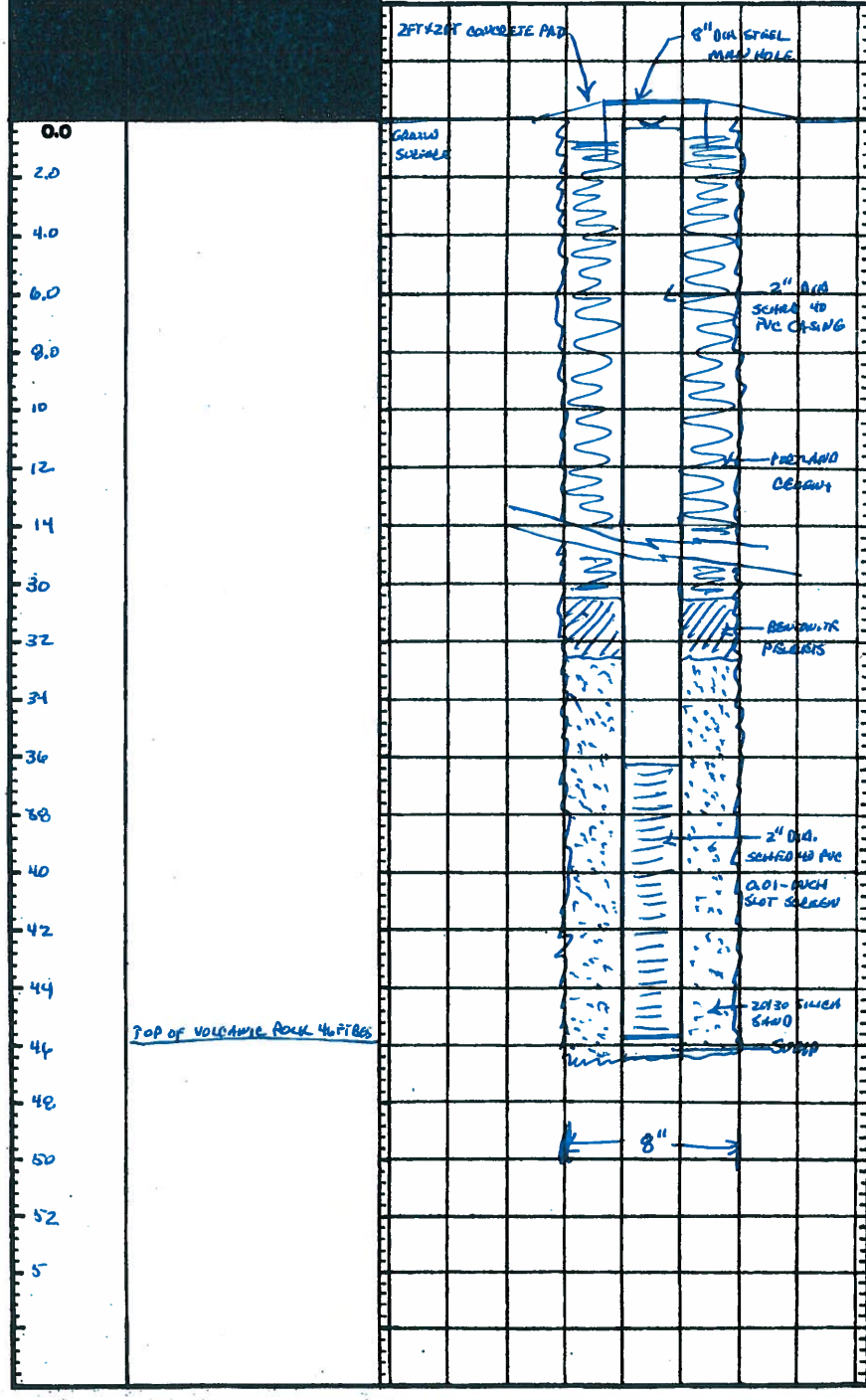
MONITORING WELL INSTALLATION LOG

JOB NO. 103B2746B	PROJECT PFIZER CAROLINA			WELL NO. IWS-37		SHEET 1	OF 1
GA INSP. REM	DRILLING METHOD AIR ROTARY			GROUND ELEV. NA		WATER DEPTH —	
WEATHER OC	DRILLING COMPANY P.C.			COLLAR ELEV. NA		DATE/TIME	
TEMP. 80s	DRILL RIG AIR ROTARY	DRILLER KEVIN		STARTED 1017 / 4/26/17 (TIME / DATE)		COMPLETED — / 4/27/17 (TIME / DATE)	

MATERIALS INVENTORY

WELL CASING	2.0 in. dia. 36 l.f.	WELL SCREEN	2.0 in. dia. 10 l.f.	BENTONITE SEAL	DELUXE SWELL BENT PELLS 1/4"
CASING TYPE	SCHED 40 PVC	SCREEN TYPE	SCHED 40 PVC	INSTALLATION METHOD	POUR IN BOREHOLE
JOINT TYPE	THREADED	SLOT SIZE	0.010-INCH SLOT	FILTER PACK QTY	10 BAGS
GROUT QUANTITY	—	CENTRALIZERS	NA	FILTER PACK TYPE	20/30 SILICA SAND
GROUT TYPE	PORTLAND TYPE CEMENT	DRILLING MUD TYPE	NA	INSTALLATION METHOD	POUR IN BOREHOLE & TAG

WELL SKETCH



INSTALLATION NOTES

TOTAL LENGTH OF WELL - 50.25 FT
INITIAL STICK UP - 3.82 FT AGS
TOTAL DEPTH - 46.43 FT BGS
TOP OF SCREEN - 36.30 FT BGS
BOTTOM OF SCREEN 45.85 FT BGS
TOP OF SAND - 32.5 FT BGS
TOP OF BENTONITE - 30.5 FT BGS

WELL DEVELOPMENT NOTES

5-1-17
STARTED DEVELOPMENTS OF WELL 744
BROWN ORANGE BROWN VERY TURBID
814 STOPPED DEVELOPMENT
60 GALLONS REMOVED

Golder Associates

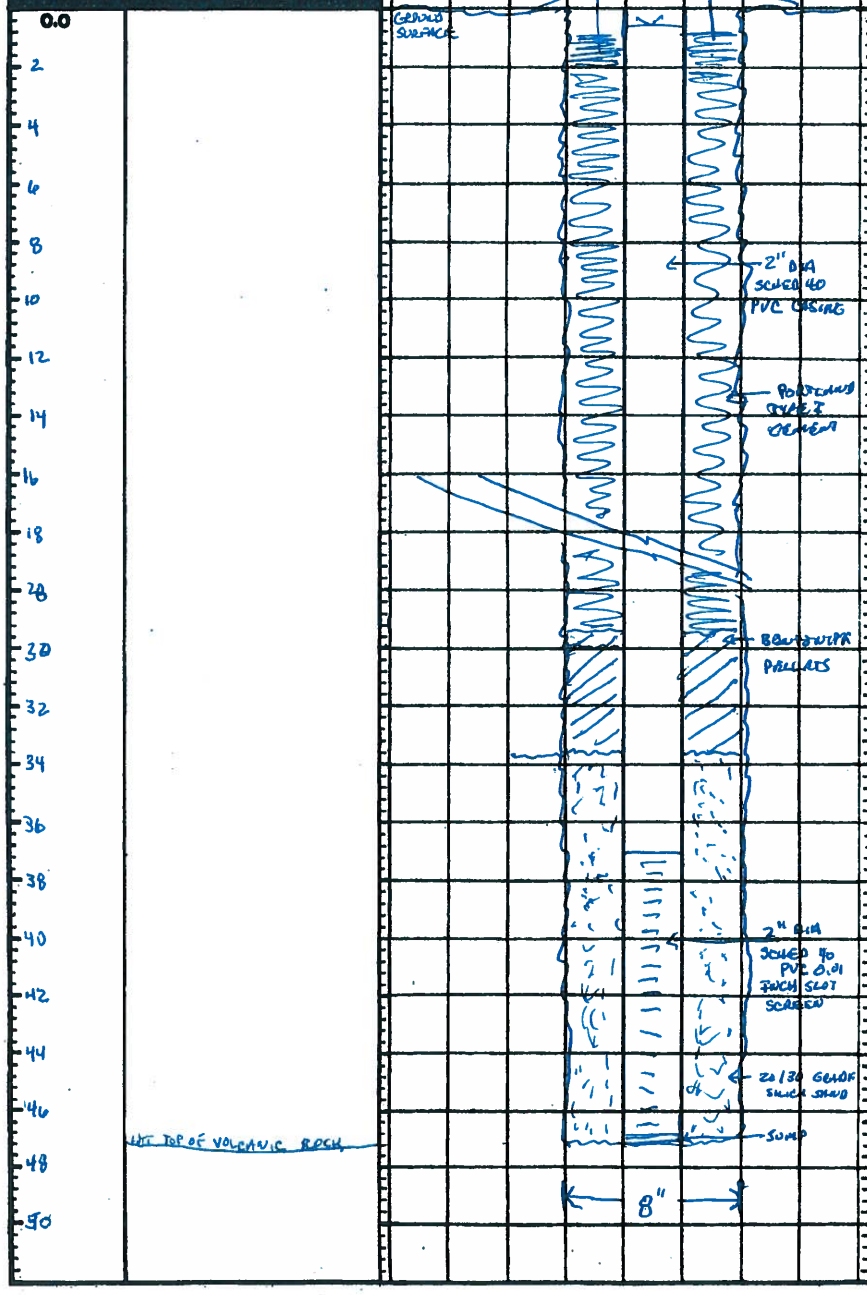
MONITORING WELL INSTALLATION LOG

JOB NO. 103B2746B	PROJECT PFIZER CAROLINA			WELL NO. INJ-36		SHEET 1	OF 1
GA INSP. REN	DRILLING METHOD AIR ROTARY			GROUND ELEV. NA		WATER DEPTH —	
WEATHER PC	DRILLING COMPANY EI P.C.			COLLAR ELEV. NA		DATE/TIME —	
TEMP. 80s	DRILL RIG AIR ROTARY	DRILLER KEVIN		STARTED 804 / 4/22/17 (TIME / DATE)		COMPLETED — / 4/27/17 (TIME / DATE)	

MATERIALS INVENTORY

WELL CASING	2" in. dia. 37 l.f.	WELL SCREEN	2" in. dia. 10 l.f.	BENTONITE SEAL	DELAY SWELL BENT PELLS 5/8
CASING TYPE	SCHED 40 PVC	SCREEN TYPE	SCHED 40 PVC	INSTALLATION METHOD	POUR IN BORENOLE
JOINT TYPE	THREADED	SLOT SIZE	0.010-INCH	FILTER PACK QTY	~~20/30 SILE~~ 10 BAGS
GROUT QUANTITY	—	CENTRALIZERS	NA	FILTER PACK TYPE	20/30 SILICA SAND
GROUT TYPE	PORTLAND CEMENT	DRILLING MUD TYPE	NA	INSTALLATION METHOD	POUR IN BORENOLE & TAG DEPTH

WELL SKETCH



INSTALLATION NOTES

TOTAL LENGTH OF WELL 50.33 FT
INITIAL STICK UP - 3.19'
TOTAL DEPTH - 47.14 FT BGS
TOP OF SCREEN 37.04 FT BGS
BOTTOM OF SCREEN 46.74 FT BGS
TOP OF SAND - 33.60 FT BGS
TOP OF BENTONITE - 29.25 FT BGS

WELL DEVELOPMENT NOTES

5-1-17
825 BEGAN DEVELOPMENT
BROWN/ORAN ABUNDANT FINES
855 STOPPED DEVELOPMENT
CLEAR NO TURBIDITY
60 GALLONS REMOVED

Golder Associates

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Pfizer Carolina		SITE LOCATION: Puerto Rico	
WELL NO: MW-025	SAMPLE ID: MW-025		DATE: 6/19/17

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 29.9 feet to 39.9 feet	STATIC DEPTH TO WATER (feet): 20.23	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 35	PURGING INITIATED AT: 10:45	PURGING ENDED AT: 11:15	TOTAL VOLUME PURGED (gallons): 2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP	COLOR/ODOR (describe)
10:45			0.066	20.23	13.4	29.0	1186	2.55	13.7	13.3	Clear
10:50			(250ml/min)	"	17.0	28.8	1134	3.03	5.13	12.6	"
10:55			"	"	7.35	28.8	1192	3.41	3.04	48.0	"
11:00			"	"	7.37	28.9	1180	3.31	2.33	-64.3	"
11:05			"	"	7.38	28.9	1179	3.47	2.22	-76.3	"
11:10			"	"	7.40	28.9	1177	3.46	1.85	-77.7	"
11:15	2		"	20.3	7.39	28.9	1179	3.47	1.86	-77.6	Clear

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: A Chacon / OSE	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 8:40	SAMPLING ENDED AT: 8:40
PUMP OR TUBING DEPTH IN WELL (feet): 35	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-025	3	AG	40	HCL	20	7.39	VOC 8260	APP	110

REMARKS: Samples preserved on ICE, No bubbles observed in VOA'S

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

Revision Date: February 20, 2013

VOC = 6.8 ppm

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Pfizer Carolina		SITE LOCATION: Puerto Rico	
WELL NO: MW-02D	SAMPLE ID: MW-02D		DATE: 6/19/17

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 77 feet to 87 feet	STATIC DEPTH TO WATER (feet): 18.95	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 82	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 82	PURGING INITIATED AT: 11:15	PURGING ENDED AT: 11:45	TOTAL VOLUME PURGED (gallons): 2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP	COLOR/ODOR (describe)
11:15			0.066	18.90	7.48	27.8	1215	3.03	1.19	-141.3	Clear
11:20			(237 ml/min)	18.90	7.48	27.7	1224	3.01	1.11	-157.6	"
11:25			"	"	7.53	28.0	1239	3.55	0.87	-194.0	"
11:30			"	"	7.55	27.9	1243	3.06	0.76	-214.8	"
11:35			"	"	7.57	27.8	1254	2.90	0.74	-216.6	"
11:40			"	"	7.60	27.7	1259	2.87	0.75	-218.1	"
11:45	2		"	18.90	7.59	27.8	1258	2.88	0.75	-218.0	Clear

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: [illegible] / JOSE	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 9:00	SAMPLING ENDED AT: 9:00
PUMP OR TUBING DEPTH IN WELL (feet): 82	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-02D	3	AG/CG	[illegible]	HCl	120	1.59	VOC 8260	APP	110

REMARKS: Samples preserved on ice, No bubbles observed in VOA's

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

Revision Date: February 20, 2013

VOC = 2.4 mm

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Pfizer Caroline		SITE LOCATION: Caroline Puerto Rico	
WELL NO: MW-075	SAMPLE ID: MW-075		DATE: 6/19/17

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 28 feet to 38 feet	STATIC DEPTH TO WATER (feet): 16.45	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 33	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 33	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP	COLOR/ODOR (describe)
13:50			0.066	16.45	7.30	28.3	1174	2.47	16.8	-138.5	
13:55			(250 ml/min)	"	7.23	28.3	1177	2.50	2.14	-143.6	
14:00			"	"	7.25	28.3	1177	2.54	1.34	-146.9	
14:05			"	"	7.21	27.8	1176	2.48	0.66	-144.9	
14:10			"	"	7.21	27.8	1176	2.46	0.70	-143.1	
14:15			"	"	7.21	27.8	1177	2.45	0.71	-143.6	
14:20	2		"	"	7.21	27.8	1177	2.45	0.71	-143.6	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: A. Chacon / OSE	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 9:50	SAMPLING ENDED AT: 9:50
PUMP OR TUBING DEPTH IN WELL (feet): 33	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-075	6	AG/CG	40	HCl/None	240	7.21	VOC 8260/MEE	APP	110

REMARKS: Samples preserved on ICE / No bubbles observed in VOAs

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

Revision Date: February 20, 2013

VOC = 0.0 ppm

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Pfizer Cardinal		SITE LOCATION: Cidra Puerto Rico	
WELL NO: MW-13S	SAMPLE ID: MW-13S		DATE: 6/19/17

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 30 feet to 40 feet	STATIC DEPTH TO WATER (feet): 23	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 35	PURGING INITIATED AT: 7:05	PURGING ENDED AT: 7:35	TOTAL VOLUME PURGED (gallons): 2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP	COLOR/ODOR (describe)
7:05			0.06	23.0	14.13	28.7	12.65	4.48	3.86	-437.2	Clear
7:10			(250 ml/min)	"	13.50	28.6	13.03	4.35	1.60	-430	"
7:15			"	"	13.53	28.6	13.21	4.31	1.75	-433.1	"
7:20			"	"	13.34	28.6	13.24	4.20	1.33	-426.6	"
7:25			"	"	13.31	28.6	13.21	3.91	1.23	-422.4	"
7:30			"	"	13.35	28.6	13.27	3.90	1.13	-419.4	"
7:35	2		"	"	13.36	28.6	13.24	3.91	1.18	-422.0	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: [illegible] / DSE	SAMPLER(S) SIGNATURE(S): [illegible]	SAMPLING INITIATED AT: 13:20	SAMPLING ENDED AT: 13:20
PUMP OR TUBING DEPTH IN WELL (feet): 35	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-13S	3	AG	40	HCL	120	13.36	VOC 8260	APP	110

REMARKS: Samples preserved on ICE, No bubbles observed in VOA's

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

Revision Date: February 20, 2013

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Pfizer Carolina		SITE LOCATION: Puerto Rico	
WELL NO: MW-165	SAMPLE ID: MW-165		DATE: 6/15/17

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 38 feet to 48 feet	STATIC DEPTH TO WATER (feet): 22	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 9:15	PURGING ENDED AT: 9:45	TOTAL VOLUME PURGED (gallons): 2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP	COLOR/ODOR (describe)
9:15			0.066	22	15.84	27.7	1344	1.11	9.45	1.11	Clear
9:20			(250ml/m)	22	15.29	27.7	1346	1.16	9.28	1.16	"
9:25			"	22	15.20	27.7	1352	1.18	8.25	1.18	"
9:30			"	22	14.37	27.6	1357	1.21	8.65	1.21	"
9:35			"	22	14.90	27.6	1359	1.19	8.47	1.19	"
9:40			"	22	14.96	27.6	1360	1.18	6.55	1.18	
9:45	2		"	22	14.95	27.6	1360	1.19	6.94	1.19	Clear

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: A Chacon / JSE	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:50	SAMPLING ENDED AT: 12:50
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	(TUBING) Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-165	6	AG/CG	40	HCL/None	240	14.55	VOC 8260/MTBE	APP	110

REMARKS: Samples preserved on ICE, No bubbles observed in VOA's

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

Revision Date: February 20, 2013

VOC – 7.2 ppm

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Pfizer Caolina		SITE LOCATION: Caolina Puerto Rico	
WELL NO: MW-175	SAMPLE ID: MW-175		DATE: 6/20/17

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 28 feet to 38 feet	STATIC DEPTH TO WATER (feet): 22	PURGE PUMP TYPE OR BAILER: PD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 33	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 33	PURGING INITIATED AT: 17:00	PURGING ENDED AT: 17:30	TOTAL VOLUME PURGED (gallons): 2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP	COLOR/ODOR (describe)
17:00			0.66	22	12.31	27.7	2464	4.54	4.0	324.5	Clear
17:05			(250ml/min)	"	12.09	27.8	2459	4.56	6.1	323.4	"
17:10	"		"	"	11.87	27.9	2438	4.45	6.0	320.8	"
17:15			"	"	11.73	27.9	2433	4.46	6.3	317.8	"
17:20			"	"	11.69	27.9	2417	4.40	6.1	321.1	"
17:25			"	"	11.70	27.9	2410	4.41	6.2	320.2	"
17:30	2		"	"	11.70	27.9	2417	4.40	6.1	321.0	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: A Chacon / TOSC	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 8:00	SAMPLING ENDED AT: 8:00
PUMP OR TUBING DEPTH IN WELL (feet): 33	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-175	3	AG	40	HCL	120	11.70	VOC 8260	APP	100

REMARKS: Samples preserved on ICE, No bubbles observed in VOAs

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

Revision Date: February 20, 2013

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Pfizer Caolina		SITE LOCATION: Caolina Puerto Rico	
WELL NO: MW-18S	SAMPLE ID: MW-18S		DATE: 6/29/17

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 50 feet to 60 feet	STATIC DEPTH TO WATER (feet): 22.20	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 55	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 55	PURGING INITIATED AT: 6:30	PURGING ENDED AT: 7:00	TOTAL VOLUME PURGED (gallons): 2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP	COLOR/ODOR (describe)
6:30			0.066	22.20	13.50	28.6	1799	6.35	5.60	-397.9	Clear
6:35			(250 ml/min)	"	14.12	27.9	18[illegible]	5.55	35.9	-418.1	"
6:40			"	"	13.39	28.2	1814	5.50	20.2	-410.7	"
6:45			"	"	13.40	28.4	1926	5.93	12.2	-414.6	"
6:50			"	"	13.42	28.4	1928	5.54	10.4	-409.6	"
6:55			"	"	13.48	28.4	1928	5.53	9.3	-408	"
7:00	2		"	"	13.40	28.4	1930	5.62	9.4	-407	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. Chacon / OSE	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 13:15	SAMPLING ENDED AT: 13:15
PUMP OR TUBING DEPTH IN WELL (feet): 55	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-18S	3	AG	40	HCL	120	13.70	VOC 8260	APP	110

REMARKS: Samples Preserved on Ice, No bubbles observed in VOAs

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

Revision Date: February 20, 2013

[signature]

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Pfizer Cardina	SITE LOCATION: Cardina Puerto Rico	
WELL NO: MW-215	SAMPLE ID: MW-215	DATE: 6/28/17

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 37 feet to 47 feet	STATIC DEPTH TO WATER (feet): 10.45	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP	COLOR/ODOR (describe)
14:20			0.066	10.45	7.24	27.8	1075	2.07	149	-122.7	Clear
14:25			(250 ml/min)	"	7.26	27.8	1077	2.00	149	-122.5	"
14:30			"	"	7.26	27.8	1076	1.59	0.15	-125.9	"
14:35			"	"	7.28	27.8	1073	2.00	0.06	-126.4	"
14:40			"	"	7.29	27.8	1079	2.01	0.08	-126.9	"
14:45			"	"	7.28	27.8	1073	2.00	0.08	-129.7	"
14:50	2		"	"	7.28	27.8	1079	2.01	0.07	-129.6	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J Chace / DSE	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:45	SAMPLING ENDED AT: 10:45
PUMP OR TUBING DEPTH IN WELL (feet): 42	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-215	6	AG/CG	40	HCl/None	240	7.28	VOC 8260/MTBE	APP	110

REMARKS: Samples preserved on Ice, No bubbles observed in VOA's

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Pfizer Carolina		SITE LOCATION: Carolina Puerto Rico	
WELL NO: MW-26	SAMPLE ID: MW-26		DATE: 6/28/17

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 37 feet to 47 feet	STATIC DEPTH TO WATER (feet): 20.20	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42	PURGING INITIATED AT: 16:20	PURGING ENDED AT: 16:50	TOTAL VOLUME PURGED (gallons): 2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP	COLOR/ODOR (describe)
16:20			0.066	20.20	10.41	28.9	1153	4.46	4.25	320.1	Clear
16:25			(250 ml/min)	"	10.43	28.9	1160	4.31	4.10	318.7	"
16:30			"	"	10.45	28.6	1158	4.26	4.08	320.9	"
16:35			"	"	10.43	28.4	1160	4.24	3.96	320.9	"
16:40			"	"	10.40	28.5	1158	4.20	3.90	320.0	"
16:45			"	"	10.39	28.4	1159	4.22	3.92	321.0	"
16:50	2		"	"	10.40	28.4	1158	4.22	3.90	320.1	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. Charri / OSE	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 12:20	SAMPLING ENDED AT: 12:20
PUMP OR TUBING DEPTH IN WELL (feet): 42	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-26	3	AG	40	HCL	120	10.40	VOC 8260	APP	110

REMARKS: Samples preserved on Ice, No bubbles observed in VOAs

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

Revision Date: February 20, 2013

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Pfizer Caguas		SITE LOCATION: Caguas Puerto Rico	
WELL NO: MW-295	SAMPLE ID: MW-295		DATE: 6/20/17

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 34 feet to 44 feet	STATIC DEPTH TO WATER (feet): 19.55	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 40	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 40	PURGING INITIATED AT: 15:00	PURGING ENDED AT: 15:30	TOTAL VOLUME PURGED (gallons): 2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP	COLOR/ODOR (describe)
15:00			0.066	19.55	10.55	29.7	1328	3.36	39.6	217.8	Clear
15:05			(250 ml/min)	"	10.47	29.7	1319	3.31	12.8	217.6	"
15:10			"	"	10.30	29.7	1304	3.07	7.69	260.6	"
15:15			"	"	10.28	29.6	1273	2.74	4.08	271.4	"
15:20			"	"	10.26	29.6	1268	2.71	2.38	272.0	"
15:25			"	"	10.25	29.6	1268	2.70	2.26	271.8	"
15:30	2		"	"	10.25	29.6	1269	2.71	1.92	271.9	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J. Chacon / OSE	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 13:40	SAMPLING ENDED AT: 13:40
PUMP OR TUBING DEPTH IN WELL (feet): 40	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-295	6	AG/CG	40	HCL	240	10.25	VOC 8260/MTBE	APP	110
				HCL/None					

REMARKS: Samples preserved to ICE / No bubbles observed in VOAs

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

Revision Date: February 20, 2013

VC = 7.8 ppm

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Pfizer Carolina		SITE LOCATION: Puerto Rico	
WELL NO: MW-31S	SAMPLE ID: MW-31S		DATE: 6/19/17

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 15.03	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15	PURGING INITIATED AT: 13:20	PURGING ENDED AT: 13:50	TOTAL VOLUME PURGED (gallons): 2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP	COLOR/ODOR (describe)
13:20			0.066	15.03	7.39	27.5	1024	3.45	25.5	-12.2	Clear
13:25			(250 ml/min)	"	7.34	27.2	1026	3.32	4.85	-17.2	Clear
13:30			"	"	7.33	27.2	1031	3.30	2.07	16.9	Clear
13:35			"	"	7.32	27.3	1033	2.97	1.85	17.6	Clear
13:40			"	"	7.32	27.4	1036	2.85	1.63	18.1	Clear
13:45			"	"	7.32	27.4	1036	2.80	1.62	18.4	Clear
13:50	2		"	"	7.32	27.4	1036	2.81	1.63	18.3	Clear

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. Chacon / OSE	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 9:55	SAMPLING ENDED AT: 9:55
PUMP OR TUBING DEPTH IN WELL (feet): 15	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-31S	3	AG	40	HCL	120	7.32	VOC 8260	APP	110

REMARKS: Samples preserved on Ice No bubbles observed in VOA's

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

Revision Date: February 20, 2013

VOC - 20 ppm

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Pfizer Cardina		SITE LOCATION: Puerto Rico	
WELL NO: Inj-24	SAMPLE ID: Inj-24		DATE: 6/19/12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 41 feet to 51 feet	STATIC DEPTH TO WATER (feet): 22.20	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 46	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 46	PURGING INITIATED AT: 7:55	PURGING ENDED AT: 8:30	TOTAL VOLUME PURGED (gallons): 2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP	COLOR/ODOR (describe)
7:55			0.066	22.20	13.17	27.3	11.22	2.35	1.63	-328.4	Clear
8:00			(250ml/min)	"	13.09	27.4	11.26	2.32	1.56	-332.1	Clear
8:05			"	"	13.10	27.4	11.34	2.31	1.55	-339.0	Clear
8:10			"	"	13.14	27.4	11.40	2.26	1.49	-328.5	Clear
8:15			"	"	13.15	27.4	11.45	2.16	1.31	-326.3	Clear
8:20			"	"	13.18	27.4	11.50	2.15	1.26	-321.1	Clear
8:25			"	"	13.18	27.5	11.61	2.15	1.16	-325.2	Clear
8:30	2		"	"	13.16	27.4	11.57	2.13	1.20	-323.9	Clear

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H Chacon / OSE	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 12:45	SAMPLING ENDED AT: 12:45
PUMP OR TUBING DEPTH IN WELL (feet): 46	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING: Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
Inj-24	3	AG	40	HCL	120	1.16	VOC 8260	APP	110

REMARKS: Samples preserved on Ice, No bubbles observed in VOAs

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

Revision Date: February 20, 2013

VOC = 7.2 ppm

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Pfizer Carolina		SITE LOCATION: Caguas Puerto Rico	
WELL NO: Inj-36	SAMPLE ID: Inj-36		DATE: 6/15/17

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 31 feet to 41 feet	STATIC DEPTH TO WATER (feet): 20.10	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 36	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 36	PURGING INITIATED AT: 15:40	PURGING ENDED AT: 16:10	TOTAL VOLUME PURGED (gallons): 2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP	COLOR/ODOR (describe)
15:40			0.066	20.10	12.26	28.4	1672	5.18	28.9	-372.1	Clear
15:45			(250ml/min)	"	11.90	24.8	1717	5.82	14.1	-363.1	"
15:50			"	"	11.90	24.9	1720	5.81	14.3	-361.1	"
15:55			"	"	11.42	28.8	1739	5.71	14.2	-365.9	"
16:00			"	"	11.42	28.8	1708	5.72	14.4	-366.1	"
16:05			"	"	11.42	28.8	1700	5.70	14.2	-365.9	"
16:10	2		"	"	11.41	28.8	1701	5.71	14.3	-366.1	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: [illegible] / OSE	SAMPLER(S) SIGNATURE(S): [illegible]	SAMPLING INITIATED AT: 13:30	SAMPLING ENDED AT: 13:36
PUMP OR TUBING DEPTH IN WELL (feet): 36	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
Inj-36	3	AG	40	HCL	120	1.41	VOC 8260	APP	110

REMARKS: Samples preserved on ICE. No bubbles observed in VOA's

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

Revision Date: February 20, 2013

DOC = 22.4 ppm

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Pfizer Caolina		SITE LOCATION: Puerto Rico	
WELL NO: Inj-38	SAMPLE ID: Inj-38		DATE: 6/29/17

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 37 feet to 47 feet	STATIC DEPTH TO WATER (feet): 22.10	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42	PURGING INITIATED AT: 8:40	PURGING ENDED AT: 9:10	TOTAL VOLUME PURGED (gallons): 2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or ~~µS/cm~~	DISSOLVED OXYGEN (circle units) ~~mg/L~~ or % saturation	TURBIDITY (NTUs)	ORP	COLOR/ODOR (describe)
8:40			0.066	22.10	12.51	27.8	1110	2.21	6.51	287.6	Clear
8:45			(250 ml/min)	"	12.73	27.8	1110	2.16	4.27	292.4	"
8:50			"	"	12.89	27.9	1113	1.91	3.34	307.1	"
8:55			"	"	12.87	27.8	1114	1.89	3.27	309.7	"
9:00			"	"	12.88	27.9	1115	1.83	3.26	304.3	"
9:05			"	"	12.81	27.8	1114	1.79	3.20	305.0	"
9:10	2		"	"	12.87	27.7	1115	1.80	3.20	305.1	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. Chacon / OSE	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 13:05	SAMPLING ENDED AT: 13:05
PUMP OR TUBING DEPTH IN WELL (feet): 42	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	(TUBING) Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
Inj-38	3	AG	40	HCL	120	1287	VOC 8260	APP	110

REMARKS: Samples preserved on ICE, No bubbles observed in VOA's

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

Revision Date: February 20, 2013

VOC – 212.8 ppm

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Pfizer Cardiac		SITE LOCATION: Puerto Rico	
WELL NO: Inj - 39	SAMPLE ID: Inj - 39		DATE: 6/21/17

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 36 feet to 46 feet	STATIC DEPTH TO WATER (feet): 20.14	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 41	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 41	PURGING INITIATED AT: 6:35	PURGING ENDED AT: 7:05	TOTAL VOLUME PURGED (gallons): 2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP	COLOR/ODOR (describe)
6:35			0.066 (250 ml/min)	20.14	11.60	27.10	1110	2.16	3.40	273.5	Clear
6:40			"	"	12.34	27.11	1112	2.23	3.10	281.3	"
6:45			"	"	12.43	27.0	1111	1.82	3.00	289.1	"
6:50			"	"	12.57	27.6	1113	1.80	2.90	304.1	"
6:55			"	"	12.65	27.8	1113	1.79	3.00	306.3	"
7:00			"	"	12.70	27.8	1114	1.78	2.91	3080	"
7:05	2		"	"	12.71	27.8	1113	1.79	2.90	307.9	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: HCruz / OSE	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 8:10	SAMPLING ENDED AT: 8:10
PUMP OR TUBING DEPTH IN WELL (feet): 41	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
Inj-39	6	AG/PE	40	HCL/None	240	12.71	VOC 8260/MRB	APP	110

REMARKS: Samples preserved on ICE, No bubbles observed in VOA'S

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
"J" = indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

Revision Date: February 20, 2013

VOC = 2.41 ppm

ATTACHMENT 2
LABORATORY ANALYTICAL REPORTS

Pace Analytical Services, Inc.
8 East Tower Circle
Ormond Beach, FL 32174
Phone: 386.672.5668
Fax: 386.673.4001

Date: June 29, 2017

Re: Client: Golder Associates, Inc.
Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

PR Licensed Chemist Certification:
Certificación de Químico Licenciado de PR:

After completing my review of this report and the accompanying data files, and based upon its content, it is my professional opinion that the analyses summarized therein were performed following the required technical and quality control criteria, and that the results obtained appear reasonable in that context. I have stamped and sealed this report to certify that professional opinion, in accordance to Article V, Section 2 of the Code of the CQPR.

Después de revisar este reporte y los archivos de datos incluidos, y basado en su contenido, es mi opinión profesional que los análisis incluidos en él fueron realizados siguiendo los requerimientos técnicos y de control de calidad, y que los resultados obtenidos son razonables en este contexto. Yo he estampado y sellado este reporte para certificar dicha opinión profesional, como indicado en el Artículo V, Sección 2 del Reglamento del CQPR.

Please contact me at your convenience if you have any questions.
Si tiene alguna pregunta por favor contácteme a su mejor conveniencia.

Sincerely,
Sinceramente,

Lic. Juan A. Sepúlveda
P.R. Licensed Chemist.

JUAN A. SEPULVEDA
Químico Licenciado
Estado Libre Asociado de Puerto Rico
1500592
LICENCIA NUM. 3846

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

June 29, 2017

Kirk Blevins
Golder Associates, Inc.
9428 Baymeadows Pkwy, Ste. 400
Jacksonville, FL 32256

RE: Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Dear Kirk Blevins:
Enclosed are the analytical results for sample(s) received by the laboratory on June 22, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Todd Rea
todd.rea@pacelabs.com
(386) 676-4805
Project Manager

Enclosures

cc: Jax_Labdata, Golder Associates, Inc.

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: UST-078
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: MN00064
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia WW Certification #: 382
Wisconsin Certification #: 999407970
Wyoming via EPA Region 8 Certification #: 8TMS-L

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35320066001	MW-02S	Water	06/20/17 08:40	06/22/17 10:45
35320066002	MW-02D	Water	06/20/17 09:00	06/22/17 10:45
35320066003	MW-07S	Water	06/20/17 09:50	06/22/17 10:45
35320066004	MW-31S	Water	06/20/17 09:55	06/22/17 10:45
35320066005	MW-21S	Water	06/20/17 10:45	06/22/17 10:45
35320066006	Inj-24	Water	06/20/17 12:45	06/22/17 10:45
35320066007	MW-16S	Water	06/20/17 12:50	06/22/17 10:45
35320066008	Inj-38	Water	06/20/17 13:05	06/22/17 10:45
35320066009	MW-18S	Water	06/20/17 13:15	06/22/17 10:45
35320066010	MW-13S	Water	06/20/17 13:20	06/22/17 10:45
35320066011	Inj-36	Water	06/20/17 13:30	06/22/17 10:45
35320066012	MW-17S	Water	06/21/17 08:00	06/22/17 10:45
35320066013	Inj-39	Water	06/21/17 08:10	06/22/17 10:45
35320066014	MW-26	Water	06/21/17 12:20	06/22/17 10:45
35320066015	MW-29S	Water	06/21/17 13:40	06/22/17 10:45

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(386)672-5668

SAMPLE ANALYTE COUNT

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35320066001	MW-02S	EPA 8260	BTN, SK1	34	PASI-O
35320066002	MW-02D	EPA 8260	BTN, SK1	34	PASI-O
35320066003	MW-07S	RSK 175	MJL	3	PASI-M
		EPA 8260	SK1	34	PASI-O
35320066004	MW-31S	EPA 8260	BTN	34	PASI-O
35320066005	MW-21S	RSK 175	MJL	3	PASI-M
		EPA 8260	BTN	34	PASI-O
35320066006	Inj-24	EPA 8260	BTN, SK1	34	PASI-O
35320066007	MW-16S	RSK 175	MJL	3	PASI-M
		EPA 8260	BTN, SK1	34	PASI-O
35320066008	Inj-38	EPA 8260	BTN, SK1	34	PASI-O
35320066009	MW-18S	EPA 8260	BTN, SK1	34	PASI-O
35320066010	MW-13S	EPA 8260	BTN, SK1	34	PASI-O
35320066011	Inj-36	EPA 8260	BTN, SK1	34	PASI-O
35320066012	MW-17S	EPA 8260	BTN, SK1	34	PASI-O
35320066013	Inj-39	RSK 175	MJL	3	PASI-M
		EPA 8260	BTN, SK1	34	PASI-O
35320066014	MW-26	EPA 8260	BTN, SK1	34	PASI-O
35320066015	MW-29S	RSK 175	MJL	3	PASI-M
		EPA 8260	SK1	34	PASI-O

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35320066001	MW-02S					
EPA 8260	Chloroethane	1.6 I	ug/L	10.0	06/24/17 15:06	
EPA 8260	1,2-Dichloroethene (Total)	692	ug/L	25.0	06/26/17 21:15	N2
EPA 8260	1,1-Dichloroethene	1.9	ug/L	1.0	06/24/17 15:06	
EPA 8260	cis-1,2-Dichloroethene	494	ug/L	25.0	06/26/17 21:15	
EPA 8260	trans-1,2-Dichloroethene	198	ug/L	1.0	06/24/17 15:06	
EPA 8260	Trichloroethene	106	ug/L	1.0	06/24/17 15:06	
EPA 8260	Vinyl chloride	185	ug/L	1.0	06/24/17 15:06	
35320066002	MW-02D					
EPA 8260	1,2-Dichloroethene (Total)	592	ug/L	25.0	06/26/17 22:06	N2
EPA 8260	1,1-Dichloroethene	3.9	ug/L	1.0	06/24/17 15:58	
EPA 8260	cis-1,2-Dichloroethene	571	ug/L	25.0	06/26/17 22:06	
EPA 8260	trans-1,2-Dichloroethene	21.2	ug/L	1.0	06/24/17 15:58	
EPA 8260	Trichloroethene	320	ug/L	25.0	06/26/17 22:06	
EPA 8260	Vinyl chloride	61.5	ug/L	1.0	06/24/17 15:58	
35320066003	MW-07S					
RSK 175	Ethene	6.9 I	ug/L	10.0	06/27/17 14:09	
RSK 175	Methane	1330	ug/L	10.0	06/27/17 14:09	
EPA 8260	Chloroethane	0.98 I	ug/L	10.0	06/29/17 11:32	
EPA 8260	1,2-Dichloroethene (Total)	34.1	ug/L	1.0	06/29/17 11:32	N2
EPA 8260	cis-1,2-Dichloroethene	23.2	ug/L	1.0	06/29/17 11:32	
EPA 8260	trans-1,2-Dichloroethene	10.9	ug/L	1.0	06/29/17 11:32	
EPA 8260	Trichloroethene	0.66 I	ug/L	1.0	06/29/17 11:32	
EPA 8260	Vinyl chloride	23.1	ug/L	1.0	06/29/17 11:32	
35320066004	MW-31S					
EPA 8260	1,2-Dichloroethene (Total)	39.2	ug/L	1.0	06/24/17 16:49	N2
EPA 8260	cis-1,2-Dichloroethene	23.2	ug/L	1.0	06/24/17 16:49	
EPA 8260	trans-1,2-Dichloroethene	16.0	ug/L	1.0	06/24/17 16:49	
EPA 8260	Tetrachloroethene	0.61 I	ug/L	1.0	06/24/17 16:49	
EPA 8260	Trichloroethene	119	ug/L	1.0	06/24/17 16:49	
EPA 8260	Vinyl chloride	19.4	ug/L	1.0	06/24/17 16:49	
35320066005	MW-21S					
RSK 175	Ethane	12.5	ug/L	10.0	06/27/17 14:24	
RSK 175	Ethene	4.0 I	ug/L	10.0	06/27/17 14:24	
RSK 175	Methane	884	ug/L	10.0	06/27/17 14:24	
EPA 8260	Chloroethane	4.1 I	ug/L	10.0	06/24/17 17:15	
EPA 8260	1,2-Dichloroethene (Total)	205	ug/L	1.0	06/24/17 17:15	N2
EPA 8260	1,1-Dichloroethene	0.63 I	ug/L	1.0	06/24/17 17:15	
EPA 8260	cis-1,2-Dichloroethene	159	ug/L	1.0	06/24/17 17:15	
EPA 8260	trans-1,2-Dichloroethene	46.1	ug/L	1.0	06/24/17 17:15	
EPA 8260	Trichloroethene	10.6	ug/L	1.0	06/24/17 17:15	
EPA 8260	Vinyl chloride	117	ug/L	1.0	06/24/17 17:15	
35320066006	Inj-24					
EPA 8260	Chloroethane	13.2	ug/L	10.0	06/24/17 17:41	
EPA 8260	1,2-Dichloroethene (Total)	1970	ug/L	50.0	06/26/17 22:32	N2

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35320066006	Inj-24					
EPA 8260	1,1-Dichloroethene	5.4	ug/L	1.0	06/24/17 17:41	
EPA 8260	cis-1,2-Dichloroethene	1240	ug/L	50.0	06/26/17 22:32	
EPA 8260	trans-1,2-Dichloroethene	726	ug/L	50.0	06/26/17 22:32	
EPA 8260	Tetrachloroethene	0.70 I	ug/L	1.0	06/24/17 17:41	
EPA 8260	Trichloroethene	1120	ug/L	50.0	06/26/17 22:32	
EPA 8260	Vinyl chloride	328	ug/L	50.0	06/26/17 22:32	
35320066007	MW-16S					
RSK 175	Ethane	85.6	ug/L	10.0	06/27/17 14:31	
RSK 175	Ethene	63.3	ug/L	10.0	06/27/17 14:31	
RSK 175	Methane	2260	ug/L	10.0	06/27/17 14:31	
EPA 8260	Chloroethane	53.2	ug/L	10.0	06/24/17 18:06	
EPA 8260	1,2-Dichloroethene (Total)	645	ug/L	10.0	06/26/17 22:57	N2
EPA 8260	1,1-Dichloroethene	1.2	ug/L	1.0	06/24/17 18:06	
EPA 8260	cis-1,2-Dichloroethene	360	ug/L	10.0	06/26/17 22:57	
EPA 8260	trans-1,2-Dichloroethene	285	ug/L	10.0	06/26/17 22:57	
EPA 8260	Trichloroethene	33.8	ug/L	1.0	06/24/17 18:06	
EPA 8260	Vinyl chloride	237	ug/L	10.0	06/26/17 22:57	
35320066008	Inj-38					
EPA 8260	Chloroform	9.8	ug/L	1.0	06/24/17 18:32	
EPA 8260	1,2-Dichloroethene (Total)	406	ug/L	100	06/26/17 23:23	N2
EPA 8260	1,1-Dichloroethene	2.8	ug/L	1.0	06/24/17 18:32	
EPA 8260	cis-1,2-Dichloroethene	390	ug/L	100	06/26/17 23:23	
EPA 8260	trans-1,2-Dichloroethene	15.1	ug/L	1.0	06/24/17 18:32	
EPA 8260	Tetrachloroethene	3.2	ug/L	1.0	06/24/17 18:32	
EPA 8260	Trichloroethene	3440	ug/L	100	06/26/17 23:23	
EPA 8260	Vinyl chloride	22.5	ug/L	1.0	06/24/17 18:32	
35320066009	MW-18S					
EPA 8260	Chloroethane	22.2	ug/L	10.0	06/24/17 18:57	
EPA 8260	1,2-Dichloroethene (Total)	571	ug/L	25.0	06/26/17 23:49	N2
EPA 8260	1,1-Dichloroethene	1.8	ug/L	1.0	06/24/17 18:57	
EPA 8260	cis-1,2-Dichloroethene	341	ug/L	25.0	06/26/17 23:49	
EPA 8260	trans-1,2-Dichloroethene	230	ug/L	25.0	06/26/17 23:49	
EPA 8260	Trichloroethene	108	ug/L	1.0	06/24/17 18:57	
EPA 8260	Vinyl chloride	773	ug/L	25.0	06/26/17 23:49	
35320066010	MW-13S					
EPA 8260	Chloroethane	14.7	ug/L	10.0	06/24/17 19:23	
EPA 8260	1,2-Dichloroethene (Total)	606	ug/L	25.0	06/27/17 00:14	N2
EPA 8260	1,1-Dichloroethene	2.5	ug/L	1.0	06/24/17 19:23	
EPA 8260	cis-1,2-Dichloroethene	256	ug/L	25.0	06/27/17 00:14	
EPA 8260	trans-1,2-Dichloroethene	350	ug/L	25.0	06/27/17 00:14	
EPA 8260	Trichloroethene	161	ug/L	1.0	06/24/17 19:23	
EPA 8260	Vinyl chloride	85.1	ug/L	25.0	06/27/17 00:14	
35320066011	Inj-36					
EPA 8260	1,1-Dichloroethane	0.79 I	ug/L	1.0	06/24/17 19:48	

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SUMMARY OF DETECTION

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35320066011	Inj-36					
EPA 8260	1,2-Dichloroethene (Total)	1020	ug/L	100	06/27/17 00:40	N2
EPA 8260	1,1-Dichloroethene	2.8	ug/L	1.0	06/24/17 19:48	
EPA 8260	cis-1,2-Dichloroethene	1010	ug/L	100	06/27/17 00:40	
EPA 8260	trans-1,2-Dichloroethene	11.8	ug/L	1.0	06/24/17 19:48	
EPA 8260	Trichloroethene	147	ug/L	1.0	06/24/17 19:48	
EPA 8260	Vinyl chloride	198	ug/L	1.0	06/24/17 19:48	
35320066012	MW-17S					
EPA 8260	Chloroethane	5.9 I	ug/L	10.0	06/24/17 20:13	
EPA 8260	1,2-Dichloroethene (Total)	482	ug/L	10.0	06/27/17 01:05	N2
EPA 8260	1,1-Dichloroethene	1.3	ug/L	1.0	06/24/17 20:13	
EPA 8260	cis-1,2-Dichloroethene	300	ug/L	10.0	06/27/17 01:05	
EPA 8260	trans-1,2-Dichloroethene	182	ug/L	1.0	06/24/17 20:13	
EPA 8260	Trichloroethene	11.0	ug/L	1.0	06/24/17 20:13	
EPA 8260	Vinyl chloride	260	ug/L	10.0	06/27/17 01:05	
35320066013	Inj-39					
RSK 175	Ethane	7.2 I	ug/L	10.0	06/28/17 09:17	
RSK 175	Ethene	2.1 I	ug/L	10.0	06/28/17 09:17	
RSK 175	Methane	505	ug/L	10.0	06/28/17 09:17	
EPA 8260	Chloroform	0.91 I	ug/L	1.0	06/24/17 20:39	
EPA 8260	1,2-Dichloroethene (Total)	1160	ug/L	100	06/27/17 01:31	N2
EPA 8260	1,1-Dichloroethene	18.3	ug/L	1.0	06/24/17 20:39	
EPA 8260	cis-1,2-Dichloroethene	1140	ug/L	100	06/27/17 01:31	
EPA 8260	trans-1,2-Dichloroethene	27.1	ug/L	1.0	06/24/17 20:39	
EPA 8260	Tetrachloroethene	1.2	ug/L	1.0	06/24/17 20:39	
EPA 8260	Trichloroethene	1180	ug/L	100	06/27/17 01:31	
EPA 8260	Vinyl chloride	191	ug/L	1.0	06/24/17 20:39	
35320066014	MW-26					
EPA 8260	1,2-Dichloroethene (Total)	74.5	ug/L	1.0	06/24/17 21:04	N2
EPA 8260	1,1-Dichloroethene	1.3	ug/L	1.0	06/24/17 21:04	
EPA 8260	cis-1,2-Dichloroethene	69.1	ug/L	1.0	06/24/17 21:04	
EPA 8260	trans-1,2-Dichloroethene	5.4	ug/L	1.0	06/24/17 21:04	
EPA 8260	Tetrachloroethene	17.7	ug/L	1.0	06/24/17 21:04	
EPA 8260	Trichloroethene	684	ug/L	50.0	06/27/17 01:57	
EPA 8260	Vinyl chloride	37.9	ug/L	1.0	06/24/17 21:04	
35320066015	MW-29S					
RSK 175	Methane	41.2	ug/L	10.0	06/28/17 09:31	
EPA 8260	Chloromethane	0.68 I	ug/L	1.0	06/25/17 00:26	
EPA 8260	1,2-Dichloroethene (Total)	9.2	ug/L	1.0	06/25/17 00:26	N2
EPA 8260	cis-1,2-Dichloroethene	8.7	ug/L	1.0	06/25/17 00:26	
EPA 8260	Trichloroethene	26.0	ug/L	1.0	06/25/17 00:26	
EPA 8260	Vinyl chloride	2.0	ug/L	1.0	06/25/17 00:26	

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ANALYTICAL RESULTS

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Sample: MW-02S Lab ID: 35320066001 Collected: 06/20/17 08:40 Received: 06/22/17 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/24/17 15:06	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:06	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/24/17 15:06	74-83-9	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:06	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:06	108-90-7	
Chloroethane	1.6 I	ug/L	10.0	0.50	1		06/24/17 15:06	75-00-3	
2-Chloroethylvinyl ether	0.50 U	ug/L	40.0	0.50	1		06/24/17 15:06	110-75-8	c2
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:06	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/24/17 15:06	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		06/24/17 15:06	124-48-1	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:06	95-50-1	
1,3-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:06	541-73-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:06	106-46-7	
Dichlorodifluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:06	75-71-8	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:06	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:06	107-06-2	
1,2-Dichloroethene (Total)	692	ug/L	25.0	12.5	25		06/26/17 21:15	540-59-0	N2
1,1-Dichloroethene	1.9	ug/L	1.0	0.50	1		06/24/17 15:06	75-35-4	
cis-1,2-Dichloroethene	494	ug/L	25.0	12.5	25		06/26/17 21:15	156-59-2	
trans-1,2-Dichloroethene	198	ug/L	1.0	0.50	1		06/24/17 15:06	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:06	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 15:06	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 15:06	10061-02-6	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/24/17 15:06	75-09-2	J(L1)
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/24/17 15:06	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:06	127-18-4	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:06	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:06	79-00-5	
Trichloroethene	106	ug/L	1.0	0.50	1		06/24/17 15:06	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:06	75-69-4	
Vinyl chloride	185	ug/L	1.0	0.50	1		06/24/17 15:06	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97	%	89-111		1		06/24/17 15:06	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	75-135		1		06/24/17 15:06	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		06/24/17 15:06	2037-26-5	

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ANALYTICAL RESULTS

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Sample: MW-02D Lab ID: 35320066002 Collected: 06/20/17 09:00 Received: 06/22/17 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/24/17 15:58	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:58	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/24/17 15:58	74-83-9	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:58	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:58	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/24/17 15:58	75-00-3	
2-Chloroethylvinyl ether	0.50 U	ug/L	40.0	0.50	1		06/24/17 15:58	110-75-8	c2
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:58	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/24/17 15:58	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		06/24/17 15:58	124-48-1	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:58	95-50-1	
1,3-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:58	541-73-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:58	106-46-7	
Dichlorodifluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:58	75-71-8	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:58	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:58	107-06-2	
1,2-Dichloroethene (Total)	592	ug/L	25.0	12.5	25		06/26/17 22:06	540-59-0	N2
1,1-Dichloroethene	3.9	ug/L	1.0	0.50	1		06/24/17 15:58	75-35-4	
cis-1,2-Dichloroethene	571	ug/L	25.0	12.5	25		06/26/17 22:06	156-59-2	
trans-1,2-Dichloroethene	21.2	ug/L	1.0	0.50	1		06/24/17 15:58	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:58	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 15:58	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 15:58	10061-02-6	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/24/17 15:58	75-09-2	J(L1)
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/24/17 15:58	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:58	127-18-4	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:58	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:58	79-00-5	
Trichloroethene	320	ug/L	25.0	12.5	25		06/26/17 22:06	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 15:58	75-69-4	
Vinyl chloride	61.5	ug/L	1.0	0.50	1		06/24/17 15:58	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	100	%	89-111		1		06/24/17 15:58	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	75-135		1		06/24/17 15:58	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		06/24/17 15:58	2037-26-5	

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ANALYTICAL RESULTS

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Sample: MW-07S Lab ID: 35320066003 Collected: 06/20/17 09:50 Received: 06/22/17 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	4.9 U	ug/L	10.0	4.9	1		06/27/17 14:09	74-84-0	
Ethene	6.9 I	ug/L	10.0	0.68	1		06/27/17 14:09	74-85-1	
Methane	1330	ug/L	10.0	1.1	1		06/27/17 14:09	74-82-8	
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/29/17 11:32	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/29/17 11:32	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/29/17 11:32	74-83-9	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		06/29/17 11:32	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/29/17 11:32	108-90-7	
Chloroethane	0.98 I	ug/L	10.0	0.50	1		06/29/17 11:32	75-00-3	
2-Chloroethylvinyl ether	0.50 U	ug/L	40.0	0.50	1		06/29/17 11:32	110-75-8	c2
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/29/17 11:32	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/29/17 11:32	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		06/29/17 11:32	124-48-1	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/29/17 11:32	95-50-1	
1,3-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/29/17 11:32	541-73-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/29/17 11:32	106-46-7	
Dichlorodifluoromethane	0.50 U	ug/L	1.0	0.50	1		06/29/17 11:32	75-71-8	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/29/17 11:32	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/29/17 11:32	107-06-2	
1,2-Dichloroethene (Total)	34.1	ug/L	1.0	0.50	1		06/29/17 11:32	540-59-0	N2
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/29/17 11:32	75-35-4	
cis-1,2-Dichloroethene	23.2	ug/L	1.0	0.50	1		06/29/17 11:32	156-59-2	
trans-1,2-Dichloroethene	10.9	ug/L	1.0	0.50	1		06/29/17 11:32	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/29/17 11:32	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/29/17 11:32	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/29/17 11:32	10061-02-6	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/29/17 11:32	75-09-2	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/29/17 11:32	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/29/17 11:32	127-18-4	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/29/17 11:32	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/29/17 11:32	79-00-5	
Trichloroethene	0.66 I	ug/L	1.0	0.50	1		06/29/17 11:32	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/29/17 11:32	75-69-4	
Vinyl chloride	23.1	ug/L	1.0	0.50	1		06/29/17 11:32	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	96	%	89-111		1		06/29/17 11:32	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	75-135		1		06/29/17 11:32	17060-07-0	
Toluene-d8 (S)	101	%	89-112		1		06/29/17 11:32	2037-26-5	

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ANALYTICAL RESULTS

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Sample: MW-31S Lab ID: 35320066004 Collected: 06/20/17 09:55 Received: 06/22/17 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/24/17 16:49	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/24/17 16:49	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/24/17 16:49	74-83-9	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		06/24/17 16:49	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 16:49	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/24/17 16:49	75-00-3	
2-Chloroethylvinyl ether	0.50 U	ug/L	40.0	0.50	1		06/24/17 16:49	110-75-8	c2
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/24/17 16:49	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/24/17 16:49	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		06/24/17 16:49	124-48-1	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 16:49	95-50-1	
1,3-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 16:49	541-73-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 16:49	106-46-7	
Dichlorodifluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 16:49	75-71-8	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 16:49	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 16:49	107-06-2	
1,2-Dichloroethene (Total)	39.2	ug/L	1.0	0.50	1		06/24/17 16:49	540-59-0	N2
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/24/17 16:49	75-35-4	
cis-1,2-Dichloroethene	23.2	ug/L	1.0	0.50	1		06/24/17 16:49	156-59-2	
trans-1,2-Dichloroethene	16.0	ug/L	1.0	0.50	1		06/24/17 16:49	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/24/17 16:49	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 16:49	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 16:49	10061-02-6	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/24/17 16:49	75-09-2	J(L1)
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/24/17 16:49	79-34-5	
Tetrachloroethene	0.61 I	ug/L	1.0	0.50	1		06/24/17 16:49	127-18-4	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 16:49	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 16:49	79-00-5	
Trichloroethene	119	ug/L	1.0	0.50	1		06/24/17 16:49	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 16:49	75-69-4	
Vinyl chloride	19.4	ug/L	1.0	0.50	1		06/24/17 16:49	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	98	%	89-111		1		06/24/17 16:49	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	75-135		1		06/24/17 16:49	17060-07-0	
Toluene-d8 (S)	103	%	89-112		1		06/24/17 16:49	2037-26-5	

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ANALYTICAL RESULTS

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Sample: MW-21S Lab ID: 35320066005 Collected: 06/20/17 10:45 Received: 06/22/17 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	12.5	ug/L	10.0	4.9	1		06/27/17 14:24	74-84-0	
Ethene	4.0 I	ug/L	10.0	0.68	1		06/27/17 14:24	74-85-1	
Methane	884	ug/L	10.0	1.1	1		06/27/17 14:24	74-82-8	
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/24/17 17:15	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:15	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/24/17 17:15	74-83-9	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:15	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:15	108-90-7	
Chloroethane	4.1 I	ug/L	10.0	0.50	1		06/24/17 17:15	75-00-3	
2-Chloroethylvinyl ether	0.50 U	ug/L	40.0	0.50	1		06/24/17 17:15	110-75-8	c2
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:15	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/24/17 17:15	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		06/24/17 17:15	124-48-1	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:15	95-50-1	
1,3-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:15	541-73-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:15	106-46-7	
Dichlorodifluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:15	75-71-8	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:15	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:15	107-06-2	
1,2-Dichloroethene (Total)	205	ug/L	1.0	0.50	1		06/24/17 17:15	540-59-0	N2
1,1-Dichloroethene	0.63 I	ug/L	1.0	0.50	1		06/24/17 17:15	75-35-4	
cis-1,2-Dichloroethene	159	ug/L	1.0	0.50	1		06/24/17 17:15	156-59-2	
trans-1,2-Dichloroethene	46.1	ug/L	1.0	0.50	1		06/24/17 17:15	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:15	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 17:15	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 17:15	10061-02-6	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/24/17 17:15	75-09-2	J(L1)
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/24/17 17:15	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:15	127-18-4	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:15	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:15	79-00-5	
Trichloroethene	10.6	ug/L	1.0	0.50	1		06/24/17 17:15	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:15	75-69-4	
Vinyl chloride	117	ug/L	1.0	0.50	1		06/24/17 17:15	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	89-111		1		06/24/17 17:15	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	75-135		1		06/24/17 17:15	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		06/24/17 17:15	2037-26-5	

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ANALYTICAL RESULTS

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Sample: Inj-24 Lab ID: 35320066006 Collected: 06/20/17 12:45 Received: 06/22/17 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/24/17 17:41	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:41	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/24/17 17:41	74-83-9	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:41	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:41	108-90-7	
Chloroethane	13.2	ug/L	10.0	0.50	1		06/24/17 17:41	75-00-3	
2-Chloroethylvinyl ether	0.50 U	ug/L	40.0	0.50	1		06/24/17 17:41	110-75-8	c2
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:41	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/24/17 17:41	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		06/24/17 17:41	124-48-1	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:41	95-50-1	
1,3-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:41	541-73-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:41	106-46-7	
Dichlorodifluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:41	75-71-8	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:41	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:41	107-06-2	
1,2-Dichloroethene (Total)	1970	ug/L	50.0	25.0	50		06/26/17 22:32	540-59-0	N2
1,1-Dichloroethene	5.4	ug/L	1.0	0.50	1		06/24/17 17:41	75-35-4	
cis-1,2-Dichloroethene	1240	ug/L	50.0	25.0	50		06/26/17 22:32	156-59-2	
trans-1,2-Dichloroethene	726	ug/L	50.0	25.0	50		06/26/17 22:32	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:41	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 17:41	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 17:41	10061-02-6	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/24/17 17:41	75-09-2	J(L1)
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/24/17 17:41	79-34-5	
Tetrachloroethene	0.70 I	ug/L	1.0	0.50	1		06/24/17 17:41	127-18-4	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:41	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:41	79-00-5	
Trichloroethene	1120	ug/L	50.0	25.0	50		06/26/17 22:32	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 17:41	75-69-4	
Vinyl chloride	328	ug/L	50.0	25.0	50		06/26/17 22:32	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	89-111		1		06/24/17 17:41	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	75-135		1		06/24/17 17:41	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		06/24/17 17:41	2037-26-5	

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ANALYTICAL RESULTS

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Sample: MW-16S Lab ID: 35320066007 Collected: 06/20/17 12:50 Received: 06/22/17 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	85.6	ug/L	10.0	4.9	1		06/27/17 14:31	74-84-0	
Ethene	63.3	ug/L	10.0	0.68	1		06/27/17 14:31	74-85-1	
Methane	2260	ug/L	10.0	1.1	1		06/27/17 14:31	74-82-8	
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/24/17 18:06	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:06	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/24/17 18:06	74-83-9	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:06	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:06	108-90-7	
Chloroethane	53.2	ug/L	10.0	0.50	1		06/24/17 18:06	75-00-3	
2-Chloroethylvinyl ether	0.50 U	ug/L	40.0	0.50	1		06/24/17 18:06	110-75-8	c2
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:06	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/24/17 18:06	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		06/24/17 18:06	124-48-1	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:06	95-50-1	
1,3-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:06	541-73-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:06	106-46-7	
Dichlorodifluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:06	75-71-8	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:06	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:06	107-06-2	
1,2-Dichloroethene (Total)	645	ug/L	10.0	5.0	10		06/26/17 22:57	540-59-0	N2
1,1-Dichloroethene	1.2	ug/L	1.0	0.50	1		06/24/17 18:06	75-35-4	
cis-1,2-Dichloroethene	360	ug/L	10.0	5.0	10		06/26/17 22:57	156-59-2	
trans-1,2-Dichloroethene	285	ug/L	10.0	5.0	10		06/26/17 22:57	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:06	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 18:06	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 18:06	10061-02-6	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/24/17 18:06	75-09-2	J(L1)
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/24/17 18:06	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:06	127-18-4	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:06	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:06	79-00-5	
Trichloroethene	33.8	ug/L	1.0	0.50	1		06/24/17 18:06	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:06	75-69-4	
Vinyl chloride	237	ug/L	10.0	5.0	10		06/26/17 22:57	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97	%	89-111		1		06/24/17 18:06	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	75-135		1		06/24/17 18:06	17060-07-0	
Toluene-d8 (S)	101	%	89-112		1		06/24/17 18:06	2037-26-5	

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ANALYTICAL RESULTS

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Sample: Inj-38 Lab ID: 35320066008 Collected: 06/20/17 13:05 Received: 06/22/17 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/24/17 18:32	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:32	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/24/17 18:32	74-83-9	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:32	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:32	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/24/17 18:32	75-00-3	
2-Chloroethylvinyl ether	0.50 U	ug/L	40.0	0.50	1		06/24/17 18:32	110-75-8	c2
Chloroform	9.8	ug/L	1.0	0.50	1		06/24/17 18:32	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/24/17 18:32	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		06/24/17 18:32	124-48-1	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:32	95-50-1	
1,3-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:32	541-73-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:32	106-46-7	
Dichlorodifluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:32	75-71-8	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:32	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:32	107-06-2	
1,2-Dichloroethene (Total)	406	ug/L	100	50.0	100		06/26/17 23:23	540-59-0	N2
1,1-Dichloroethene	2.8	ug/L	1.0	0.50	1		06/24/17 18:32	75-35-4	
cis-1,2-Dichloroethene	390	ug/L	100	50.0	100		06/26/17 23:23	156-59-2	
trans-1,2-Dichloroethene	15.1	ug/L	1.0	0.50	1		06/24/17 18:32	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:32	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 18:32	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 18:32	10061-02-6	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/24/17 18:32	75-09-2	J(L1)
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/24/17 18:32	79-34-5	
Tetrachloroethene	3.2	ug/L	1.0	0.50	1		06/24/17 18:32	127-18-4	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:32	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:32	79-00-5	
Trichloroethene	3440	ug/L	100	50.0	100		06/26/17 23:23	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:32	75-69-4	
Vinyl chloride	22.5	ug/L	1.0	0.50	1		06/24/17 18:32	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	98	%	89-111		1		06/24/17 18:32	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	75-135		1		06/24/17 18:32	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		06/24/17 18:32	2037-26-5	

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ANALYTICAL RESULTS

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Sample: MW-18S Lab ID: 35320066009 Collected: 06/20/17 13:15 Received: 06/22/17 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/24/17 18:57	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:57	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/24/17 18:57	74-83-9	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:57	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:57	108-90-7	
Chloroethane	22.2	ug/L	10.0	0.50	1		06/24/17 18:57	75-00-3	
2-Chloroethylvinyl ether	0.50 U	ug/L	40.0	0.50	1		06/24/17 18:57	110-75-8	c2
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:57	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/24/17 18:57	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		06/24/17 18:57	124-48-1	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:57	95-50-1	
1,3-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:57	541-73-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:57	106-46-7	
Dichlorodifluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:57	75-71-8	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:57	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:57	107-06-2	
1,2-Dichloroethene (Total)	571	ug/L	25.0	12.5	25		06/26/17 23:49	540-59-0	N2
1,1-Dichloroethene	1.8	ug/L	1.0	0.50	1		06/24/17 18:57	75-35-4	
cis-1,2-Dichloroethene	341	ug/L	25.0	12.5	25		06/26/17 23:49	156-59-2	
trans-1,2-Dichloroethene	230	ug/L	25.0	12.5	25		06/26/17 23:49	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:57	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 18:57	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 18:57	10061-02-6	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/24/17 18:57	75-09-2	J(L1)
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/24/17 18:57	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:57	127-18-4	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:57	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:57	79-00-5	
Trichloroethene	108	ug/L	1.0	0.50	1		06/24/17 18:57	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 18:57	75-69-4	
Vinyl chloride	773	ug/L	25.0	12.5	25		06/26/17 23:49	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	98	%	89-111		1		06/24/17 18:57	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	75-135		1		06/24/17 18:57	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		06/24/17 18:57	2037-26-5	

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ANALYTICAL RESULTS

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Sample: MW-13S Lab ID: 35320066010 Collected: 06/20/17 13:20 Received: 06/22/17 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/24/17 19:23	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:23	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/24/17 19:23	74-83-9	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:23	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:23	108-90-7	
Chloroethane	14.7	ug/L	10.0	0.50	1		06/24/17 19:23	75-00-3	
2-Chloroethylvinyl ether	0.50 U	ug/L	40.0	0.50	1		06/24/17 19:23	110-75-8	c2
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:23	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/24/17 19:23	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		06/24/17 19:23	124-48-1	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:23	95-50-1	
1,3-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:23	541-73-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:23	106-46-7	
Dichlorodifluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:23	75-71-8	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:23	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:23	107-06-2	
1,2-Dichloroethene (Total)	606	ug/L	25.0	12.5	25		06/27/17 00:14	540-59-0	N2
1,1-Dichloroethene	2.5	ug/L	1.0	0.50	1		06/24/17 19:23	75-35-4	
cis-1,2-Dichloroethene	256	ug/L	25.0	12.5	25		06/27/17 00:14	156-59-2	
trans-1,2-Dichloroethene	350	ug/L	25.0	12.5	25		06/27/17 00:14	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:23	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 19:23	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 19:23	10061-02-6	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/24/17 19:23	75-09-2	J(L1)
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/24/17 19:23	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:23	127-18-4	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:23	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:23	79-00-5	
Trichloroethene	161	ug/L	1.0	0.50	1		06/24/17 19:23	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:23	75-69-4	
Vinyl chloride	85.1	ug/L	25.0	12.5	25		06/27/17 00:14	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	98	%	89-111		1		06/24/17 19:23	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	75-135		1		06/24/17 19:23	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		06/24/17 19:23	2037-26-5	

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ANALYTICAL RESULTS

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Sample: Inj-36 Lab ID: 35320066011 Collected: 06/20/17 13:30 Received: 06/22/17 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/24/17 19:48	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:48	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/24/17 19:48	74-83-9	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:48	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:48	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/24/17 19:48	75-00-3	
2-Chloroethylvinyl ether	0.50 U	ug/L	40.0	0.50	1		06/24/17 19:48	110-75-8	c2
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:48	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/24/17 19:48	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		06/24/17 19:48	124-48-1	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:48	95-50-1	
1,3-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:48	541-73-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:48	106-46-7	
Dichlorodifluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:48	75-71-8	
1,1-Dichloroethane	0.79 I	ug/L	1.0	0.50	1		06/24/17 19:48	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:48	107-06-2	
1,2-Dichloroethene (Total)	1020	ug/L	100	50.0	100		06/27/17 00:40	540-59-0	N2
1,1-Dichloroethene	2.8	ug/L	1.0	0.50	1		06/24/17 19:48	75-35-4	
cis-1,2-Dichloroethene	1010	ug/L	100	50.0	100		06/27/17 00:40	156-59-2	
trans-1,2-Dichloroethene	11.8	ug/L	1.0	0.50	1		06/24/17 19:48	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:48	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 19:48	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 19:48	10061-02-6	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/24/17 19:48	75-09-2	J(L1)
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/24/17 19:48	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:48	127-18-4	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:48	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:48	79-00-5	
Trichloroethene	147	ug/L	1.0	0.50	1		06/24/17 19:48	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 19:48	75-69-4	
Vinyl chloride	198	ug/L	1.0	0.50	1		06/24/17 19:48	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	96	%	89-111		1		06/24/17 19:48	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	75-135		1		06/24/17 19:48	17060-07-0	
Toluene-d8 (S)	101	%	89-112		1		06/24/17 19:48	2037-26-5	

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ANALYTICAL RESULTS

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Sample: MW-17S Lab ID: 35320066012 Collected: 06/21/17 08:00 Received: 06/22/17 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/24/17 20:13	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:13	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/24/17 20:13	74-83-9	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:13	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:13	108-90-7	
Chloroethane	5.9 I	ug/L	10.0	0.50	1		06/24/17 20:13	75-00-3	
2-Chloroethylvinyl ether	0.50 U	ug/L	40.0	0.50	1		06/24/17 20:13	110-75-8	c2
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:13	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/24/17 20:13	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		06/24/17 20:13	124-48-1	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:13	95-50-1	
1,3-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:13	541-73-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:13	106-46-7	
Dichlorodifluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:13	75-71-8	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:13	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:13	107-06-2	
1,2-Dichloroethene (Total)	482	ug/L	10.0	5.0	10		06/27/17 01:05	540-59-0	N2
1,1-Dichloroethene	1.3	ug/L	1.0	0.50	1		06/24/17 20:13	75-35-4	
cis-1,2-Dichloroethene	300	ug/L	10.0	5.0	10		06/27/17 01:05	156-59-2	
trans-1,2-Dichloroethene	182	ug/L	1.0	0.50	1		06/24/17 20:13	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:13	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 20:13	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 20:13	10061-02-6	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/24/17 20:13	75-09-2	J(L1)
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/24/17 20:13	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:13	127-18-4	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:13	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:13	79-00-5	
Trichloroethene	11.0	ug/L	1.0	0.50	1		06/24/17 20:13	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:13	75-69-4	
Vinyl chloride	260	ug/L	10.0	5.0	10		06/27/17 01:05	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	96	%	89-111		1		06/24/17 20:13	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	75-135		1		06/24/17 20:13	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		06/24/17 20:13	2037-26-5	

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ANALYTICAL RESULTS

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Sample: Inj-39 Lab ID: 35320066013 Collected: 06/21/17 08:10 Received: 06/22/17 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	7.2 I	ug/L	10.0	4.9	1		06/28/17 09:17	74-84-0	
Ethene	2.1 I	ug/L	10.0	0.68	1		06/28/17 09:17	74-85-1	
Methane	505	ug/L	10.0	1.1	1		06/28/17 09:17	74-82-8	
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/24/17 20:39	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:39	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/24/17 20:39	74-83-9	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:39	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:39	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/24/17 20:39	75-00-3	
2-Chloroethylvinyl ether	0.50 U	ug/L	40.0	0.50	1		06/24/17 20:39	110-75-8	c2
Chloroform	0.91 I	ug/L	1.0	0.50	1		06/24/17 20:39	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/24/17 20:39	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		06/24/17 20:39	124-48-1	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:39	95-50-1	
1,3-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:39	541-73-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:39	106-46-7	
Dichlorodifluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:39	75-71-8	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:39	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:39	107-06-2	
1,2-Dichloroethene (Total)	1160	ug/L	100	50.0	100		06/27/17 01:31	540-59-0	N2
1,1-Dichloroethene	18.3	ug/L	1.0	0.50	1		06/24/17 20:39	75-35-4	
cis-1,2-Dichloroethene	1140	ug/L	100	50.0	100		06/27/17 01:31	156-59-2	
trans-1,2-Dichloroethene	27.1	ug/L	1.0	0.50	1		06/24/17 20:39	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:39	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 20:39	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 20:39	10061-02-6	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/24/17 20:39	75-09-2	J(L1)
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/24/17 20:39	79-34-5	
Tetrachloroethene	1.2	ug/L	1.0	0.50	1		06/24/17 20:39	127-18-4	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:39	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:39	79-00-5	
Trichloroethene	1180	ug/L	100	50.0	100		06/27/17 01:31	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 20:39	75-69-4	
Vinyl chloride	191	ug/L	1.0	0.50	1		06/24/17 20:39	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	98	%	89-111		1		06/24/17 20:39	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	75-135		1		06/24/17 20:39	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		06/24/17 20:39	2037-26-5	

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ANALYTICAL RESULTS

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Sample: MW-26 Lab ID: 35320066014 Collected: 06/21/17 12:20 Received: 06/22/17 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/24/17 21:04	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/24/17 21:04	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/24/17 21:04	74-83-9	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		06/24/17 21:04	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 21:04	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/24/17 21:04	75-00-3	
2-Chloroethylvinyl ether	0.50 U	ug/L	40.0	0.50	1		06/24/17 21:04	110-75-8	c2
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/24/17 21:04	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/24/17 21:04	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		06/24/17 21:04	124-48-1	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 21:04	95-50-1	
1,3-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 21:04	541-73-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/24/17 21:04	106-46-7	
Dichlorodifluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 21:04	75-71-8	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 21:04	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 21:04	107-06-2	
1,2-Dichloroethene (Total)	74.5	ug/L	1.0	0.50	1		06/24/17 21:04	540-59-0	N2
1,1-Dichloroethene	1.3	ug/L	1.0	0.50	1		06/24/17 21:04	75-35-4	
cis-1,2-Dichloroethene	69.1	ug/L	1.0	0.50	1		06/24/17 21:04	156-59-2	
trans-1,2-Dichloroethene	5.4	ug/L	1.0	0.50	1		06/24/17 21:04	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/24/17 21:04	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 21:04	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/24/17 21:04	10061-02-6	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/24/17 21:04	75-09-2	J(L1)
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/24/17 21:04	79-34-5	
Tetrachloroethene	17.7	ug/L	1.0	0.50	1		06/24/17 21:04	127-18-4	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 21:04	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 21:04	79-00-5	
Trichloroethene	684	ug/L	50.0	25.0	50		06/27/17 01:57	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/24/17 21:04	75-69-4	
Vinyl chloride	37.9	ug/L	1.0	0.50	1		06/24/17 21:04	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	100	%	89-111		1		06/24/17 21:04	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	75-135		1		06/24/17 21:04	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		06/24/17 21:04	2037-26-5	

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ANALYTICAL RESULTS

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Sample: MW-29S Lab ID: 35320066015 Collected: 06/21/17 13:40 Received: 06/22/17 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	4.9 U	ug/L	10.0	4.9	1		06/28/17 09:31	74-84-0	
Ethene	0.68 U	ug/L	10.0	0.68	1		06/28/17 09:31	74-85-1	
Methane	41.2	ug/L	10.0	1.1	1		06/28/17 09:31	74-82-8	
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/25/17 00:26	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/25/17 00:26	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/25/17 00:26	74-83-9	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		06/25/17 00:26	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/25/17 00:26	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/25/17 00:26	75-00-3	
2-Chloroethylvinyl ether	0.50 U	ug/L	40.0	0.50	1		06/25/17 00:26	110-75-8	J(M1), c2
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/25/17 00:26	67-66-3	
Chloromethane	0.68 I	ug/L	1.0	0.62	1		06/25/17 00:26	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		06/25/17 00:26	124-48-1	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/25/17 00:26	95-50-1	
1,3-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/25/17 00:26	541-73-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/25/17 00:26	106-46-7	
Dichlorodifluoromethane	0.50 U	ug/L	1.0	0.50	1		06/25/17 00:26	75-71-8	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/25/17 00:26	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/25/17 00:26	107-06-2	
1,2-Dichloroethene (Total)	9.2	ug/L	1.0	0.50	1		06/25/17 00:26	540-59-0	N2
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/25/17 00:26	75-35-4	
cis-1,2-Dichloroethene	8.7	ug/L	1.0	0.50	1		06/25/17 00:26	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/25/17 00:26	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/25/17 00:26	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/25/17 00:26	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/25/17 00:26	10061-02-6	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/25/17 00:26	75-09-2	J(L1)
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/25/17 00:26	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/25/17 00:26	127-18-4	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/25/17 00:26	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/25/17 00:26	79-00-5	
Trichloroethene	26.0	ug/L	1.0	0.50	1		06/25/17 00:26	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/25/17 00:26	75-69-4	
Vinyl chloride	2.0	ug/L	1.0	0.50	1		06/25/17 00:26	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97	%	89-111		1		06/25/17 00:26	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	75-135		1		06/25/17 00:26	17060-07-0	
Toluene-d8 (S)	103	%	89-112		1		06/25/17 00:26	2037-26-5	

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QUALITY CONTROL DATA

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

QC Batch: 481961 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 35320066003, 35320066005, 35320066007

METHOD BLANK: 2625164 Matrix: Water
Associated Lab Samples: 35320066003, 35320066005, 35320066007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethane	ug/L	4.9 U	10.0	4.9	06/27/17 14:02	
Ethene	ug/L	0.68 U	10.0	0.68	06/27/17 14:02	
Methane	ug/L	2.9 I	10.0	1.1	06/27/17 14:02	

LABORATORY CONTROL SAMPLE & LCSD: 2625165 2625166

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	109	108	96	95	85-115	1	20	
Ethene	ug/L	106	102	102	96	96	85-115	1	20	
Methane	ug/L	60.7	58.7	59.3	97	98	85-115	1	20	

SAMPLE DUPLICATE: 2625167

Parameter	Units	35320066003 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	4.9 U	4.9 U		20	
Ethene	ug/L	6.9 I	7.1 I		20	
Methane	ug/L	1330	1430	7	20	

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QUALITY CONTROL DATA

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

QC Batch: 482086 | Analysis Method: RSK 175
QC Batch Method: RSK 175 | Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 35320066013, 35320066015

METHOD BLANK: 2625787 | Matrix: Water
Associated Lab Samples: 35320066013, 35320066015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethane	ug/L	4.9 U	10.0	4.9	06/28/17 08:59	
Ethene	ug/L	0.68 U	10.0	0.68	06/28/17 08:59	
Methane	ug/L	1.6 I	10.0	1.1	06/28/17 08:59	

LABORATORY CONTROL SAMPLE & LCSD: 2625788 2625789

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	105	109	92	96	85-115	4	20	
Ethene	ug/L	106	99.6	103	94	97	85-115	3	20	
Methane	ug/L	60.7	57.2	58.9	94	97	85-115	3	20	

SAMPLE DUPLICATE: 2625790

Parameter	Units	35320066013 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	7.2 I	7.9 I		20	
Ethene	ug/L	2.1 I	2.2 I		20	
Methane	ug/L	505	565	11	20	

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QUALITY CONTROL DATA

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

QC Batch: 377081 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35320066001, 35320066002, 35320066004, 35320066005, 35320066006, 35320066007, 35320066008, 35320066009, 35320066010, 35320066011, 35320066012, 35320066013, 35320066014

METHOD BLANK: 2042901 Matrix: Water
Associated Lab Samples: 35320066001, 35320066002, 35320066004, 35320066005, 35320066006, 35320066007, 35320066008, 35320066009, 35320066010, 35320066011, 35320066012, 35320066013, 35320066014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	06/24/17 11:57	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	06/24/17 11:57	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	06/24/17 11:57	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	06/24/17 11:57	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/24/17 11:57	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/24/17 11:57	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	06/24/17 11:57	
1,2-Dichloroethene (Total)	ug/L	0.50 U	1.0	0.50	06/24/17 11:57	N2
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	06/24/17 11:57	
1,3-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/24/17 11:57	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/24/17 11:57	
2-Chloroethylvinyl ether	ug/L	0.50 U	40.0	0.50	06/24/17 11:57	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	06/24/17 11:57	
Bromoform	ug/L	0.50 U	1.0	0.50	06/24/17 11:57	
Bromomethane	ug/L	0.50 U	5.0	0.50	06/24/17 11:57	
Carbon tetrachloride	ug/L	0.50 U	1.0	0.50	06/24/17 11:57	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	06/24/17 11:57	
Chloroethane	ug/L	0.50 U	10.0	0.50	06/24/17 11:57	
Chloroform	ug/L	0.50 U	1.0	0.50	06/24/17 11:57	
Chloromethane	ug/L	0.62 U	1.0	0.62	06/24/17 11:57	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/24/17 11:57	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	06/24/17 11:57	
Dibromochloromethane	ug/L	0.26 U	0.50	0.26	06/24/17 11:57	
Dichlorodifluoromethane	ug/L	0.50 U	1.0	0.50	06/24/17 11:57	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	06/24/17 11:57	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	06/24/17 11:57	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/24/17 11:57	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	06/24/17 11:57	
Trichloroethene	ug/L	0.50 U	1.0	0.50	06/24/17 11:57	
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	06/24/17 11:57	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	06/24/17 11:57	
1,2-Dichloroethane-d4 (S)	%	103	75-135		06/24/17 11:57	
4-Bromofluorobenzene (S)	%	100	89-111		06/24/17 11:57	
Toluene-d8 (S)	%	103	89-112		06/24/17 11:57	

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QUALITY CONTROL DATA

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

LABORATORY CONTROL SAMPLE: 2042902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.0	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.3	97	70-130	
1,1,2-Trichloroethane	ug/L	20	18.6	93	70-130	
1,1-Dichloroethane	ug/L	20	19.6	98	70-130	
1,1-Dichloroethene	ug/L	20	18.5	92	65-134	
1,2-Dichlorobenzene	ug/L	20	19.1	95	70-130	
1,2-Dichloroethane	ug/L	20	20.0	100	70-130	
1,2-Dichloroethene (Total)	ug/L	40	38.7	97	70-130	N2
1,2-Dichloropropane	ug/L	20	19.7	98	70-130	
1,3-Dichlorobenzene	ug/L	20	18.9	94	70-130	
1,4-Dichlorobenzene	ug/L	20	18.9	94	70-130	
2-Chloroethylvinyl ether	ug/L	20	16.5 I	82	46-136	
Bromodichloromethane	ug/L	20	20.5	102	70-130	
Bromoform	ug/L	20	20.7	103	62-129	
Bromomethane	ug/L	20	17.6	88	10-179	
Carbon tetrachloride	ug/L	20	19.6	98	66-127	
Chlorobenzene	ug/L	20	18.5	92	70-130	
Chloroethane	ug/L	20	16.0	80	57-142	
Chloroform	ug/L	20	18.2	91	70-130	
Chloromethane	ug/L	20	17.7	88	45-150	
cis-1,2-Dichloroethene	ug/L	20	19.3	97	70-130	
cis-1,3-Dichloropropene	ug/L	20	20.1	100	70-130	
Dibromochloromethane	ug/L	20	19.8	99	70-130	
Dichlorodifluoromethane	ug/L	20	13.8	69	44-149	
Methylene Chloride	ug/L	20	26.8	134	65-127	J(L1)
Tetrachloroethene	ug/L	20	18.7	94	48-155	
trans-1,2-Dichloroethene	ug/L	20	19.4	97	68-126	
trans-1,3-Dichloropropene	ug/L	20	20.0	100	70-130	
Trichloroethene	ug/L	20	18.7	94	69-129	
Trichlorofluoromethane	ug/L	20	15.3	76	60-144	
Vinyl chloride	ug/L	20	16.9	84	67-136	
1,2-Dichloroethane-d4 (S)	%			96	75-135	
4-Bromofluorobenzene (S)	%			99	89-111	
Toluene-d8 (S)	%			100	89-112	

MATRIX SPIKE SAMPLE: 2043544

Parameter	Units	35319723001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	0.50 U	20	18.0	90	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	16.2	81	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	23.4	117	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	17.3	86	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	17.4	87	65-134	
1,2-Dichlorobenzene	ug/L	0.50 U	20	17.3	87	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	17.2	86	70-130	

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QUALITY CONTROL DATA

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

MATRIX SPIKE SAMPLE: 2043544

Parameter	Units	35319723001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	0.50 U	40	37.6	94	70-130	N2
1,2-Dichloropropane	ug/L	0.50 U	20	19.1	96	70-130	
1,3-Dichlorobenzene	ug/L	0.50 U	20	17.0	85	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	17.0	85	70-130	
2-Chloroethylvinyl ether	ug/L	0.50 U	20	0.50 U	0	46-136	J(M1)
Bromodichloromethane	ug/L	0.27 U	20	17.1	86	70-130	
Bromoform	ug/L	0.50 U	20	17.8	89	62-129	
Bromomethane	ug/L	0.50 U	20	16.2	81	10-179	
Carbon tetrachloride	ug/L	0.50 U	20	18.0	90	66-127	
Chlorobenzene	ug/L	0.50 U	20	17.6	88	70-130	
Chloroethane	ug/L	0.50 U	20	19.2	96	57-142	
Chloroform	ug/L	0.50 U	20	17.5	88	70-130	
Chloromethane	ug/L	0.62 U	20	20.4	102	45-150	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	19.3	96	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	17.1	86	70-130	
Dibromochloromethane	ug/L	0.26 U	20	17.2	86	70-130	
Dichlorodifluoromethane	ug/L	0.50 U	20	17.8	89	44-149	
Methylene Chloride	ug/L	2.5 U	20	18.6	93	65-127	
Tetrachloroethene	ug/L	0.50 U	20	16.9	84	48-155	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	18.3	92	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	17.2	86	70-130	
Trichloroethene	ug/L	0.50 U	20	19.3	96	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	17.8	89	60-144	
Vinyl chloride	ug/L	0.50 U	20	20.6	103	67-136	
1,2-Dichloroethane-d4 (S)	%				100	75-135	
4-Bromofluorobenzene (S)	%				101	89-111	
Toluene-d8 (S)	%				99	89-112	

SAMPLE DUPLICATE: 2043545

Parameter	Units	35320066001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	1.9	1.9	4	40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethene (Total)	ug/L	692	676	2	40	N2
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Chloroethylvinyl ether	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	
Bromoform	ug/L	0.50 U	0.50 U		40	

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QUALITY CONTROL DATA

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

SAMPLE DUPLICATE: 2043545

Parameter	Units	35320066001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	1.6 I	2.6 I		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	494	503	2	40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	198	173	14	40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Trichloroethene	ug/L	106	105	1	40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl chloride	ug/L	185	198	7	40	
1,2-Dichloroethane-d4 (S)	%	100	102	2	40	
4-Bromofluorobenzene (S)	%	97	99	2	40	
Toluene-d8 (S)	%	102	103	1	40	

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QUALITY CONTROL DATA

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

QC Batch: 377103 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35320066015

METHOD BLANK: 2042987 | Matrix: Water
Associated Lab Samples: 35320066015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	06/25/17 00:01	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	06/25/17 00:01	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	06/25/17 00:01	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	06/25/17 00:01	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/25/17 00:01	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/25/17 00:01	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	06/25/17 00:01	
1,2-Dichloroethene (Total)	ug/L	0.50 U	1.0	0.50	06/25/17 00:01	N2
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	06/25/17 00:01	
1,3-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/25/17 00:01	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/25/17 00:01	
2-Chloroethylvinyl ether	ug/L	0.50 U	40.0	0.50	06/25/17 00:01	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	06/25/17 00:01	
Bromoform	ug/L	0.50 U	1.0	0.50	06/25/17 00:01	
Bromomethane	ug/L	0.50 U	5.0	0.50	06/25/17 00:01	
Carbon tetrachloride	ug/L	0.50 U	1.0	0.50	06/25/17 00:01	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	06/25/17 00:01	
Chloroethane	ug/L	0.50 U	10.0	0.50	06/25/17 00:01	
Chloroform	ug/L	0.50 U	1.0	0.50	06/25/17 00:01	
Chloromethane	ug/L	0.62 U	1.0	0.62	06/25/17 00:01	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/25/17 00:01	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	06/25/17 00:01	
Dibromochloromethane	ug/L	0.26 U	0.50	0.26	06/25/17 00:01	
Dichlorodifluoromethane	ug/L	0.50 U	1.0	0.50	06/25/17 00:01	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	06/25/17 00:01	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	06/25/17 00:01	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/25/17 00:01	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	06/25/17 00:01	
Trichloroethene	ug/L	0.50 U	1.0	0.50	06/25/17 00:01	
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	06/25/17 00:01	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	06/25/17 00:01	
1,2-Dichloroethane-d4 (S)	%	97	75-135		06/25/17 00:01	
4-Bromofluorobenzene (S)	%	98	89-111		06/25/17 00:01	
Toluene-d8 (S)	%	101	89-112		06/25/17 00:01	

LABORATORY CONTROL SAMPLE: 2042988

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.2	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.4	97	70-130	

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QUALITY CONTROL DATA

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

LABORATORY CONTROL SAMPLE: 2042988

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2-Trichloroethane	ug/L	20	20.3	102	70-130	
1,1-Dichloroethane	ug/L	20	20.1	100	70-130	
1,1-Dichloroethene	ug/L	20	18.7	94	65-134	
1,2-Dichlorobenzene	ug/L	20	19.5	97	70-130	
1,2-Dichloroethane	ug/L	20	20.2	101	70-130	
1,2-Dichloroethene (Total)	ug/L	40	40.4	101	70-130	N2
1,2-Dichloropropane	ug/L	20	20.4	102	70-130	
1,3-Dichlorobenzene	ug/L	20	19.3	97	70-130	
1,4-Dichlorobenzene	ug/L	20	19.1	96	70-130	
2-Chloroethylvinyl ether	ug/L	20	20.2 I	101	46-136	
Bromodichloromethane	ug/L	20	20.3	102	70-130	
Bromoform	ug/L	20	20.7	103	62-129	
Bromomethane	ug/L	20	18.0	90	10-179	
Carbon tetrachloride	ug/L	20	19.0	95	66-127	
Chlorobenzene	ug/L	20	19.5	98	70-130	
Chloroethane	ug/L	20	17.6	88	57-142	
Chloroform	ug/L	20	18.8	94	70-130	
Chloromethane	ug/L	20	18.2	91	45-150	
cis-1,2-Dichloroethene	ug/L	20	20.6	103	70-130	
cis-1,3-Dichloropropene	ug/L	20	20.5	102	70-130	
Dibromochloromethane	ug/L	20	19.8	99	70-130	
Dichlorodifluoromethane	ug/L	20	13.1	66	44-149	
Methylene Chloride	ug/L	20	27.9	139	65-127	J(L1)
Tetrachloroethene	ug/L	20	25.3	126	48-155	
trans-1,2-Dichloroethene	ug/L	20	19.8	99	68-126	
trans-1,3-Dichloropropene	ug/L	20	20.5	103	70-130	
Trichloroethene	ug/L	20	19.7	98	69-129	
Trichlorofluoromethane	ug/L	20	14.9	75	60-144	
Vinyl chloride	ug/L	20	17.6	88	67-136	
1,2-Dichloroethane-d4 (S)	%			96	75-135	
4-Bromofluorobenzene (S)	%			102	89-111	
Toluene-d8 (S)	%			101	89-112	

MATRIX SPIKE SAMPLE: 2046278

Parameter	Units	35320066015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	0.50 U	20	22.5	112	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	20.1	100	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	20.2	101	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	22.3	111	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	22.8	112	65-134	
1,2-Dichlorobenzene	ug/L	0.50 U	20	20.0	100	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	21.4	107	70-130	
1,2-Dichloroethene (Total)	ug/L	9.2	40	52.4	108	70-130	N2
1,2-Dichloropropane	ug/L	0.50 U	20	21.9	110	70-130	

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QUALITY CONTROL DATA

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

MATRIX SPIKE SAMPLE: 2046278

Parameter	Units	35320066015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	0.50 U	20	20.4	102	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	20.1	100	70-130	
2-Chloroethylvinyl ether	ug/L	0.50 U	20	0.50 U	0	46-136	J(M1)
Bromodichloromethane	ug/L	0.27 U	20	21.7	109	70-130	
Bromoform	ug/L	0.50 U	20	19.8	99	62-129	
Bromomethane	ug/L	0.50 U	20	17.6	88	10-179	
Carbon tetrachloride	ug/L	0.50 U	20	22.1	110	66-127	
Chlorobenzene	ug/L	0.50 U	20	21.0	105	70-130	
Chloroethane	ug/L	0.50 U	20	21.6	108	57-142	
Chloroform	ug/L	0.50 U	20	20.4	102	70-130	
Chloromethane	ug/L	0.68 I	20	22.5	109	45-150	
cis-1,2-Dichloroethene	ug/L	8.7	20	30.3	108	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	20.0	100	70-130	
Dibromochloromethane	ug/L	0.26 U	20	20.0	100	70-130	
Dichlorodifluoromethane	ug/L	0.50 U	20	21.1	106	44-149	
Methylene Chloride	ug/L	2.5 U	20	21.9	109	65-127	
Tetrachloroethene	ug/L	0.50 U	20	19.6	98	48-155	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	22.0	108	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	20.0	100	70-130	
Trichloroethene	ug/L	26.0	20	48.2	111	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	21.4	107	60-144	
Vinyl chloride	ug/L	2.0	20	24.0	110	67-136	
1,2-Dichloroethane-d4 (S)	%				102	75-135	
4-Bromofluorobenzene (S)	%				100	89-111	
Toluene-d8 (S)	%				100	89-112	

SAMPLE DUPLICATE: 2046279

Parameter	Units	35320073001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethene (Total)	ug/L	0.50 U	0.50 U		40	N2
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Chloroethylvinyl ether	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	

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QUALITY CONTROL DATA

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

SAMPLE DUPLICATE: 2046279

Parameter	Units	35320073001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane-d4 (S)	%	102	103	1	40	
4-Bromofluorobenzene (S)	%	97	98	0	40	
Toluene-d8 (S)	%	102	103	1	40	

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QUALITY CONTROL DATA

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

QC Batch: 378038 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 35320066003

METHOD BLANK: 2048564 | Matrix: Water
Associated Lab Samples: 35320066003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	06/29/17 09:49	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	06/29/17 09:49	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	06/29/17 09:49	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	06/29/17 09:49	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/29/17 09:49	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/29/17 09:49	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	06/29/17 09:49	
1,2-Dichloroethene (Total)	ug/L	0.50 U	1.0	0.50	06/29/17 09:49	N2
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	06/29/17 09:49	
1,3-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/29/17 09:49	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/29/17 09:49	
2-Chloroethylvinyl ether	ug/L	0.50 U	40.0	0.50	06/29/17 09:49	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	06/29/17 09:49	
Bromoform	ug/L	0.50 U	1.0	0.50	06/29/17 09:49	
Bromomethane	ug/L	0.50 U	5.0	0.50	06/29/17 09:49	
Carbon tetrachloride	ug/L	0.50 U	1.0	0.50	06/29/17 09:49	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	06/29/17 09:49	
Chloroethane	ug/L	0.50 U	10.0	0.50	06/29/17 09:49	
Chloroform	ug/L	0.50 U	1.0	0.50	06/29/17 09:49	
Chloromethane	ug/L	0.62 U	1.0	0.62	06/29/17 09:49	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/29/17 09:49	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	06/29/17 09:49	
Dibromochloromethane	ug/L	0.26 U	0.50	0.26	06/29/17 09:49	
Dichlorodifluoromethane	ug/L	0.50 U	1.0	0.50	06/29/17 09:49	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	06/29/17 09:49	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	06/29/17 09:49	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/29/17 09:49	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	06/29/17 09:49	
Trichloroethene	ug/L	0.50 U	1.0	0.50	06/29/17 09:49	
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	06/29/17 09:49	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	06/29/17 09:49	
1,2-Dichloroethane-d4 (S)	%	104	75-135		06/29/17 09:49	
4-Bromofluorobenzene (S)	%	98	89-111		06/29/17 09:49	
Toluene-d8 (S)	%	103	89-112		06/29/17 09:49	

LABORATORY CONTROL SAMPLE: 2048565

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.6	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.7	99	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

LABORATORY CONTROL SAMPLE: 2048565

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2-Trichloroethane	ug/L	20	19.2	96	70-130	
1,1-Dichloroethane	ug/L	20	19.9	100	70-130	
1,1-Dichloroethene	ug/L	20	18.3	92	65-134	
1,2-Dichlorobenzene	ug/L	20	19.5	98	70-130	
1,2-Dichloroethane	ug/L	20	20.1	100	70-130	
1,2-Dichloroethene (Total)	ug/L	40	39.0	97	70-130	N2
1,2-Dichloropropane	ug/L	20	20.2	101	70-130	
1,3-Dichlorobenzene	ug/L	20	19.2	96	70-130	
1,4-Dichlorobenzene	ug/L	20	19.0	95	70-130	
2-Chloroethylvinyl ether	ug/L	20	19.4 I	97	46-136	
Bromodichloromethane	ug/L	20	21.3	107	70-130	
Bromoform	ug/L	20	22.3	111	62-129	
Bromomethane	ug/L	20	21.4	107	10-179	
Carbon tetrachloride	ug/L	20	21.0	105	66-127	
Chlorobenzene	ug/L	20	19.1	95	70-130	
Chloroethane	ug/L	20	18.6	93	57-142	
Chloroform	ug/L	20	19.0	95	70-130	
Chloromethane	ug/L	20	19.6	98	45-150	
cis-1,2-Dichloroethene	ug/L	20	19.8	99	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.5	98	70-130	
Dibromochloromethane	ug/L	20	21.5	107	70-130	
Dichlorodifluoromethane	ug/L	20	18.5	93	44-149	
Methylene Chloride	ug/L	20	25.4	127	65-127	
Tetrachloroethene	ug/L	20	22.3	112	48-155	
trans-1,2-Dichloroethene	ug/L	20	19.2	96	68-126	
trans-1,3-Dichloropropene	ug/L	20	20.1	100	70-130	
Trichloroethene	ug/L	20	19.4	97	69-129	
Trichlorofluoromethane	ug/L	20	18.3	92	60-144	
Vinyl chloride	ug/L	20	20.2	101	67-136	
1,2-Dichloroethane-d4 (S)	%			99	75-135	
4-Bromofluorobenzene (S)	%			99	89-111	
Toluene-d8 (S)	%			101	89-112	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2049163 2049164

Parameter	Units	35320898014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	0.50 U	20	20	21.2	20.0	106	100	70-130	6	40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	20	20.8	20.1	104	100	70-130	4	40	
1,1,2-Trichloroethane	ug/L	0.50 U	20	20	20.8	19.2	104	96	70-130	8	40	
1,1-Dichloroethane	ug/L	0.50 U	20	20	21.0	20.2	105	101	70-130	4	40	
1,1-Dichloroethene	ug/L	0.50 U	20	20	20.0	19.5	100	98	65-134	2	40	
1,2-Dichlorobenzene	ug/L	0.50 U	20	20	20.2	19.2	101	96	70-130	5	40	
1,2-Dichloroethane	ug/L	0.50 U	20	20	20.5	19.9	103	100	70-130	3	40	
1,2-Dichloroethene (Total)	ug/L	0.50 U	40	40	42.4	39.7	106	99	70-130	7	40	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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8 East Tower Circle
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(386)672-5668

QUALITY CONTROL DATA

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2049163 2049164

Parameter	Units	35320898014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloropropane	ug/L	0.50 U	20	20	21.2	19.8	106	99	70-130	7	40	
1,3-Dichlorobenzene	ug/L	0.50 U	20	20	20.1	19.2	100	96	70-130	5	40	
1,4-Dichlorobenzene	ug/L	0.50 U	20	20	19.9	19.0	100	95	70-130	5	40	
2-Chloroethylvinyl ether	ug/L	0.50 U	20	20	0.50 U	0.50 U	0	0	46-136		40	J(M1)
Bromodichloromethane	ug/L	0.27 U	20	20	22.1	21.3	110	106	70-130	4	40	
Bromoform	ug/L	0.50 U	20	20	22.5	21.2	112	106	62-129	6	40	
Bromomethane	ug/L	0.50 U	20	20	22.8	20.2	114	101	10-179	12	40	
Carbon tetrachloride	ug/L	0.50 U	20	20	22.2	21.5	111	108	66-127	3	40	
Chlorobenzene	ug/L	0.50 U	20	20	20.4	19.2	102	96	70-130	6	40	
Chloroethane	ug/L	0.50 U	20	20	21.9	19.7	109	99	57-142	10	40	
Chloroform	ug/L	0.50 U	20	20	20.1	18.8	101	94	70-130	7	40	
Chloromethane	ug/L	0.62 U	20	20	19.7	19.9	98	99	45-150	1	40	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	20	21.1	20.0	106	100	70-130	6	40	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	20	20.4	19.3	102	96	70-130	6	40	
Dibromochloromethane	ug/L	0.26 U	20	20	21.7	20.9	108	105	70-130	3	40	
Dichlorodifluoromethane	ug/L	0.50 U	20	20	20.9	20.8	105	104	44-149	0	40	
Methylene Chloride	ug/L	2.5 U	20	20	20.6	19.5	103	97	65-127	6	40	
Tetrachloroethene	ug/L	0.50 U	20	20	19.6	18.8	98	94	48-155	4	40	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	20	21.3	19.7	106	99	68-126	8	40	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	20	20.8	19.5	104	98	70-130	6	40	
Trichloroethene	ug/L	0.50 U	20	20	20.7	19.5	104	97	69-129	6	40	
Trichlorofluoromethane	ug/L	0.50 U	20	20	20.7	20.6	104	103	60-144	0	40	
Vinyl chloride	ug/L	0.50 U	20	20	21.7	22.3	109	111	67-136	2	40	
1,2-Dichloroethane-d4 (S)	%						104	98	75-135		40	
4-Bromofluorobenzene (S)	%						100	99	89-111		40	
Toluene-d8 (S)	%						99	100	89-112		40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis
PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(L1)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
c2	Acid preservation may not be appropriate for the analysis of 2-Chloroethylvinyl ether.

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Pfizer-Carolina PR 103-82746-B
Pace Project No.: 35320066

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35320066003	MW-07S	RSK 175	481961		
35320066005	MW-21S	RSK 175	481961		
35320066007	MW-16S	RSK 175	481961		
35320066013	Inj-39	RSK 175	482086		
35320066015	MW-29S	RSK 175	482086		
35320066001	MW-02S	EPA 8260	377081		
35320066002	MW-02D	EPA 8260	377081		
35320066003	MW-07S	EPA 8260	378038		
35320066004	MW-31S	EPA 8260	377081		
35320066005	MW-21S	EPA 8260	377081		
35320066006	Inj-24	EPA 8260	377081		
35320066007	MW-16S	EPA 8260	377081		
35320066008	Inj-38	EPA 8260	377081		
35320066009	MW-18S	EPA 8260	377081		
35320066010	MW-13S	EPA 8260	377081		
35320066011	Inj-36	EPA 8260	377081		
35320066012	MW-17S	EPA 8260	377081		
35320066013	Inj-39	EPA 8260	377081		
35320066014	MW-26	EPA 8260	377081		
35320066015	MW-29S	EPA 8260	377103		

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WO# : 35320066

35320066

Pace Analytical

st Document

ls must be completed accurately.

Page : 1 Of 2

Section A
Required Client Information:

Company:	Golder Associates, Inc.
Address:	9428 Baymeadows Road
	Suite 400, Jacksonville, FL 32256-7979
Email:	
Phone:	Fax:
Requested Due Date:	

Section B
Required Project Information:

Report To:	Mr. Kirk Blevins
Copy To:	
Purchase Order #:	
Project Name:	Pfizer-Carolina PR 103-82746-B
Project #:	

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	todd.rea@pacelabs.com,
Pace Profile #:	2119-18

Regulatory Agency
State / Location
PR

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	cVOC (8260)	MEE (RSK 175)	Residual Chlorine (Y/N)
1	MW-02S	WT	G	6/20/17	8:40	6/20/17	8:40		3				X						X		
2	MW-02D	WT	G	6/20/17	9:00	6/20/17	9:00		3				X						X		
3	MW07S	WT	G	6/20/17	9:50	6/20/17	9:50		6	X			X						X	X	
4	MW-31S	WT	G	6/20	9:55	6/20	9:55		3				X						X		
5	MW-21S	WT	G	6/20	10:45	6/20	10:45		6	X			X						X	X	
6	INJ-24	W	G	6/20	12:45	6/20	12:45		3				X						X		
7	MW-16S	W	G	6/20	12:50	6/20	12:50		6	X			X						X	X	
8	INJ-38	W	G	6/20	13:05	6/20	13:05		3				X						X		
9	MW-18S	W	G	6/20	13:15	6/20	13:15		3				X						X		
10	MW-13S	W	G	6/20	13:20	6/20	13:20		3				X						X		
11	INJ-36	W	G	6/20	13:30	6/20	13:30		3				X						X		
12	MW-17S	W	G	6/21	8:00	6/21	8:00		3				X						X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[illegible]	6/21/17	16:05							
	[illegible]	6/21/17	15:00	[illegible]	6-21-17	15:20				
				MACE	6/22/17	10:45	3.9	y	N	y
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [illegible]

SIGNATURE of SAMPLER: [illegible] DATE Signed: 6/21/17

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 2 Of 2

Section A — Required Client Information:

Company:	Golder Associates, Inc.
Address:	9428 Baymeadows Road
	Suite 400, Jacksonville, FL 32256-7979
Email:	
Phone:	Fax:
Requested Due Date:	

Section B — Required Project Information:

Report To:	Mr. Kirk Blevins
Copy To:	
Purchase Order #:	
Project Name:	Pfizer-Carolina PR 103-82746-B
Project #:	

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	todd.rea@pacelabs.com,
Pace Profile #:	2119-18

Regulatory Agency:

State / Location: PR

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	cVOC (8260)	MEE (RSK 175)	Residual Chlorine (Y/N)
1	Trg-39	W	G	6/21/17	8:10	6/21	8:10		6	X			X						3	3	
2	MW-26	W	G	6/21	12:20	6/21	12:20		3				X						3		
3	MW-29S	W	G	6/21	13:40	6/21	13:40		6	X			X						3	3	
	Trip Blank	W	G	6/21	14:00	6/21	14:00		1				X								
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[illegible]	6/21/17	1600							
	[illegible]	6/21/17	15:00	[illegible]	6/21/17	15:10				
				[illegible] PACE	6/22/17	1645	3.9	y	n	y
					T-286					

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Hermes Chapson

SIGNATURE of SAMPLER: [signature] DATE Signed: 6/21/17

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: February 6, 2017
	Document No.: F-FL-C-007 rev. 11	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

WO#: 35320066

PM: TSR **Due Date: 06/29/17**

CLIENT: GOLASC

Project #:

Project Manager:

Client:

Date and Initials of person:

Examining contents: _____

Label: _____

Deliver: _____

pH: _____

Thermometer Used: T786 Date: 6/22/17 Time: 1045 Initials: MD

Cooler #1 Temp.°C 3.8 (Visual) +0.1 (Correction Factor) 3.9 (Actual) ☐ Samples on ice, cooling process has begun

Cooler #2 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) ☐ Samples on ice, cooling process has begun

Cooler #3 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) ☐ Samples on ice, cooling process has begun

Cooler #4 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) ☐ Samples on ice, cooling process has begun

Cooler #5 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) ☐ Samples on ice, cooling process has begun

Cooler #6 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) ☐ Samples on ice, cooling process has begun

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other _____

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☑ Other IUTL Air

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☑ Unknown

Tracking # 8108 3919 3612 ~~0407~~ L.P. 6/22/17

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☑ No **Ice:** (Wet) Blue None

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

		Comments:
Chain of Custody Present	☑ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☑ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☑ No ☐ N/A	
Sufficient Volume	☑ Yes ☐ No ☐ N/A	
Correct Containers Used	☑ Yes ☐ No ☐ N/A	
Containers Intact	☑ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked	☐ Yes ☐ No ☑ N/A	Preservation Information
All Containers needing preservation are found to be in compliance with EPA recommendation. Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☐ Yes ☐ No ☑ N/A	Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
Headspace in VOA Vials? (>6mm):	☐ Yes ☑ No ☐ N/A	
Trip Blank Present:	☐ Yes ☑ No ☐ N/A	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments):

Trip blank not received

Project Manager Review: _____ Date: _____

microbialinsights

10515 Research Drive
Knoxville, TN 37932
Phone: (865) 573-8188
Fax: (865) 573-8133

Client: Kirk Blevins
Golder Associates Inc.
9428 Baymeadows Road
Suite 400
Jacksonville, FL 32256

Phone: (904) 363-3430

Fax: (904) 363-3445

Identifier: 105OF **Date Rec:** 06/21/2017 **Report Date:** 06/27/2017

Client Project #: 103-82746-B **Client Project Name:** Pfizer-Carolina PR

Purchase Order #: MI-103-82746-B-01-WO

Analysis Requested: CENSUS

Reviewed By:

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MICROBIAL INSIGHTS, INC.

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CENSUS

Client: **Golder Associates Inc.**
Project: Pfizer-Carolina PR

MI Project Number: **105OF**
Date Received: 06/21/2017

Sample Information

Client Sample ID:	**MW-26**	**MW-17S**
Sample Date:	06/21/2017	06/21/2017
Units:	cells/mL	cells/mL
Analyst:	CB	CB

Dechlorinating Bacteria

Dehalococcoides	*DHC*	**8.40E+00**	**1.41E+04**
tceA Reductase	TCE	**1.01E+01**	**3.39E+03**
BAV1 Vinyl Chloride Reductase	BVC	<4.00E-01	**1.00E-01 (J)**
Vinyl Chloride Reductase	VCR	**5.60E+00**	**4.93E+04**

Legend:
NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
< = Result not detected