The Chemours Company
500 West Jefferson Street
Suite 1600
Louisville, KY 40202

502-569-2301 t
chemours.com

December 11, 2018

Mr. Paul Bretting
Bretting Development Corporation
3401 Lake Park Road
Ashland, WI 54806

RE: Clubhouse Groundwater Sample Results and Carbon Cylinder Replacement
72315 State Highway 13
Town of Barksdale, Wisconsin

Dear Mr. Bretting:

On October 8, 2018, a Chemours representative collected groundwater samples from the inflow port (i.e., preceding the granular activated carbon [GAC] cylinders) connected to the clubhouse well (see Figure 1). The samples were submitted to TestAmerica Laboratories for nitroaromatic and nitramine organic constituents (NNOCs) analysis. As has been the case historically (since 2002), NNOCs were not detected above laboratory detection limits (see Table 1).

As you are aware, replacement of the GAC cylinders is typically done during the annual groundwater sampling; however, this was done on May 1, 2018 to coincide with plumbing repairs you scheduled to address frozen pipes. An inspection of the system and repairs made in May was conducted at the time of sampling and no issues were identified. If you happen to notice any issues with the system (i.e., leaks, broken fittings, etc.), please let me know.

I anticipate the next round of groundwater sampling (for NNOCs only) and GAC cylinder replacement will be conducted sometime in the fourth quarter of 2019. If you have any questions or comments, please feel free to contact me by telephone at (812) 923-1136 or by email at Bradley.S.Nave@chemours.com.

Sincerely,

Bradley S. Nave
Chemours Corporate Remediation Group

Attachments: Table 1 - Historical Clubhouse Inflow Groundwater Sample Results
Figure 1 - Clubhouse Water System Flow Diagram
TestAmerica Laboratory Analytical Report

Cc: Chris Saari, WDNR
Cary E. Pooler, AECOM
Eric Schmidt, AECOM
Nicholas F. Shorkey, AECOM

Table 1
Historical Clubhouse Inflow Ground Water Sample Results
Former DuPont Barksdale Works
Barksdale, Wisconsin

Location ID		CLUB HOUSE-INFLOW	CLUB HOUSE-INFLOW	CLUB HOUSE-INFLOW	CLUB HOUSE-INFLOW	CLUB HOUSE-INFLOW	CLUB HOUSE-INFLOW	CLUB HOUSE-INFLOW	CLUB HOUSE-INFLOW	CLUB HOUSE-INFLOW	CLUB HOUSE-INFLOW	CLUB HOUSE-INFLOW	CLUB HOUSE-INFLOW	CLUB HOUSE-INFLOW
Date Sampled		12/02/1998	12/04/1998	04/14/1999	07/12/1999	10/12/1999	12/14/1999	04/20/2000	07/11/2000	10/17/2000	12/12/2000	04/23/2001	10/16/2001	10/16/2001
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
NNOCs Target Analytes (µg/L)														
1,3,5-Trinitrobenzene	UG/L	<0.026	--	<0.019	<0.019	<0.019	<0.019	<0.030	<0.038	<0.033	<0.033	<0.017	<0.017	<0.017
1,3-Dinitrobenzene	UG/L	<0.011	--	<0.012	<0.012	<0.012	<0.012	<0.010	<0.069	<0.035	<0.035	<0.020	<0.020	<0.020
1-Methyl-3-Nitrobenzene	UG/L	<0.030	--	<0.18	<0.18	<0.18	<0.18	<0.080	<0.061	<0.017	<0.017	<0.019	<0.019	<0.019
1-Methyl-4-Nitrobenzene	UG/L	--	--	--	--	--	--	<0.50	--	--	--	<0.019	<0.019	<0.019
2-Amino-4,6-Dinitrotoluene	UG/L	<0.024	--	<0.034	<0.034	<0.034	<0.034	<0.020	<0.082	<0.039	<0.039	<0.013	<0.013	<0.013
2-Nitrotoluene	UG/L	--	--	--	--	--	--	<0.080	--	--	--	<0.019	<0.019	<0.019
2- And 4-Nitrotoluene	UG/L	<0.024	--	<0.16	<0.16	<0.16	<0.16	--	<0.063	**0.18 U**	<0.090	--	--	--
2,4,6-Trinitrotoluene	UG/L	<0.018	--	<0.059	<0.059	<0.059	<0.059	<0.030	<0.058	<0.032	<0.032	<0.049	<0.049	<0.049
2,4,6-Trinitroxylene	UG/L	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Amino-2,6-Dinitrotoluene	UG/L	<0.021	--	<0.011	<0.011	<0.011	<0.011	<0.040	<0.046	<0.037 UJ	<0.037	<0.017	<0.017	<0.017
Nitrobenzene	UG/L	<0.088	--	<0.088	<0.088	<0.088	<0.088	--	<0.088	**0.044 J**	<0.039	<0.049	<0.049	<0.049
Nitroglycerin	UG/L	<5.0	--	<5.0	<5.0	<5.0	<5.0	<5.0	--	<5.0	--	--	--	--
HMX	UG/L	<0.047	--	<0.036	<0.036	<0.036	<0.036	<0.040	<0.036	<0.040 UJ	<0.040	<0.022	<0.022	<0.022
PETN	UG/L	<0.069	--	<0.069	<0.069	<0.069	<0.069	<0.20	<0.069	<0.033	<0.033	<0.020	<0.020	<0.020
RDX	UG/L	<0.043	--	<0.015	<0.015	<0.015	<0.015	<0.060	<0.075	<0.027 UJ	<0.027	<0.028	<0.028	<0.028
Tetryl	UG/L	<0.030	--	<0.043	<0.043	<0.043	<0.043	<0.020	<0.065	<0.037	<0.037	<0.019	<0.019	<0.019
NNOCs DNT Isomers (µg/L)														
2,3-Dinitrotoluene	UG/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	UG/L	<0.025	--	<0.017	<0.017	<0.017	<0.017	<0.030	<0.115	**0.13 J**	<0.040	<0.016	<0.016	<0.016
2,5-Dinitrotoluene	UG/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	UG/L	<0.020	--	<0.010	<0.010	<0.010	<0.010	<0.040	<0.054	**0.045 J**	<0.039	<0.012	<0.012	<0.012
3,4-Dinitrotoluene	UG/L	--	--	--	--	--	--	--	--	--	--	--	--	--
3,5-Dinitrotoluene	UG/L	--	--	--	--	--	--	--	--	--	--	--	--	--
NNOCs DNX Isomers (µg/L)														
1,2-Dimethyl-3,4-Dinitrobenzene	UG/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dimethyl-3,5-Dinitrobenzene	UG/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dimethyl-3,6-Dinitrobenzene	UG/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dimethyl-4,5-Dinitrobenzene	UG/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dimethyl-2,4-Dinitrobenzene	UG/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dimethyl-2,5-Dinitrobenzene	UG/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dimethyl-2,3-Dinitrobenzene	UG/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dimethyl-2,5-Dinitrobenzene	UG/L	**73.0**	--	**76.0**	**78.0**	**80.0**	**76.0**	**100**	--	**86.0**	--	--	--	--
1,4-Dimethyl-2,6-Dinitrobenzene	UG/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,5-Dimethyl-2,3-Dinitrobenzene	UG/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,5-Dimethyl-2,4-Dinitrobenzene	UG/L	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs (µg/L)														
Naphthalene	UG/L	--	--	--	--	--	--	--	--	<0.15	--	--	--	--
Anions (µg/L)														
Perchlorate	UG/L	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

NNOC = Nitroaromatic and Nitramine Organic Compounds

DNT = Dinitrotoluene

DNX = Dinitroxylene

SVOC = Semi Volatile Organic Compound

< = not detected above the laboratory reporting limit

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* DNX isomer inadvertently omitted by the analytical laboratory

Note: Detections not observed in effluent samples

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Date Sampled		05/15/2002	05/15/2002	12/10/2002	09/09/2003	08/25/2004	11/15/2005	08/01/2007	07/27/2011	12/04/2013	09/16/2014	09/03/2015	10/09/2015	8/4/2016*
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
NNOCs Target Analytes (µg/L)														
1,3,5-Trinitrobenzene	UG/L	<0.025	<0.025	<0.025	<0.015	<0.018	--	<0.010	<0.016	<0.016	<0.016	<0.017	<0.017	<0.017
1,3-Dinitrobenzene	UG/L	<0.023	<0.023	<0.023	<0.014	<0.019	--	<0.011	<0.014	<0.013	<0.014	<0.014	<0.014	<0.014
1-Methyl-3-Nitrobenzene	UG/L	<0.027	<0.027	<0.027	<0.019	<0.064	--	<0.025	<0.024	<0.024	<0.024	<0.025	<0.025	<0.025
1-Methyl-4-Nitrobenzene	UG/L	<0.025	<0.025	<0.025	<0.018	<0.061	--	<0.026	<0.025	<0.025	<0.025	<0.026	<0.026	<0.026
2-Amino-4,6-Dinitrotoluene	UG/L	<0.036	<0.036	<0.036	<0.012	<0.017	--	<0.021	<0.020	<0.020	<0.020	<0.021	<0.021	<0.021
2-Nitrotoluene	UG/L	<0.026	<0.026	<0.026	<0.023	<0.057	--	<0.022	<0.021	<0.021	<0.021	<0.022	<0.022	<0.022
2- And 4-Nitrotoluene	UG/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,6-Trinitrotoluene	UG/L	<0.021	<0.021	<0.021	<0.015	<0.026	--	<0.022	<0.021	<0.021	<0.021	<0.022	<0.022	<0.022
2,4,6-Trinitroxylene	UG/L	--	--	--	--	--	--	--	--	<0.011	<0.012	--	<0.012	<0.012
4-Amino-2,6-Dinitrotoluene	UG/L	<0.020	<0.020	<0.020	<0.015	<0.022	--	<0.019	<0.018	<0.018	<0.018	<0.019	<0.019	<0.019
Nitrobenzene	UG/L	<0.030	<0.030	<0.030	<0.039	<0.042	--	<0.045	<0.044	<0.043	<0.032	<0.033	<0.033	<0.033
Nitroglycerin	UG/L	--	--	--	--	--	--	--	--	--	<0.043	<0.045	<0.045	<0.044
HMX	UG/L	<0.040	<0.040	<0.040	<0.016	<0.017	--	<0.019	<0.018	<0.018	<0.018	<0.019	<0.019	<0.019
PETN	UG/L	<0.051	<0.051	<0.051	<0.031	<0.038	--	<0.015	<0.017	<0.017	<0.017	<0.018	<0.018	<0.018
RDX	UG/L	<0.020	<0.020	<0.020	<0.012	<0.013	--	<0.021	<0.020	<0.020	<0.020	<0.021	<0.021	<0.021
Tetryl	UG/L	<0.024	<0.024	<0.024	<0.012	<0.017	--	<0.021	<0.020	<0.020	<0.020	<0.021	<0.021	<0.021
NNOCs DNT Isomers (µg/L)														
2,3-Dinitrotoluene	UG/L	--	--	--	--	--	--	--	<0.015	<0.014	<0.014	--	<0.015	<0.015
2,4-Dinitrotoluene	UG/L	<0.026	<0.026	<0.026	<0.019	<0.038	--	<0.019	<0.018	<0.018	<0.018	--	<0.019	<0.019
2,5-Dinitrotoluene	UG/L	--	--	--	--	--	--	--	--	<0.013	<0.014	--	<0.014	<0.014
2,6-Dinitrotoluene	UG/L	<0.022	<0.022	<0.022	<0.015	<0.037	--	<0.022	<0.021	<0.021	<0.021	--	<0.022	<0.022
3,4-Dinitrotoluene	UG/L	--	--	--	--	--	--	--	<0.019	<0.019	<0.019	--	<0.020	<0.020
3,5-Dinitrotoluene	UG/L	--	--	--	--	--	--	--	<0.033	<0.032	<0.033	--	<0.034	<0.034
NNOCs DNX Isomers (µg/L)														
1,2-Dimethyl-3,4-Dinitrobenzene	UG/L	--	--	--	--	--	--	--	--	--	<0.24	<0.23	--	--
1,2-Dimethyl-3,5-Dinitrobenzene	UG/L	--	--	--	--	--	--	--	--	<0.33	<0.33	<0.31	--	--
1,2-Dimethyl-3,6-Dinitrobenzene	UG/L	--	--	--	--	--	--	--	--	--	<0.41	<0.39	--	--
1,2-Dimethyl-4,5-Dinitrobenzene	UG/L	--	--	--	--	--	--	--	--	--	<0.39	<0.37	--	--
1,3-Dimethyl-2,4-Dinitrobenzene	UG/L	--	--	--	--	--	--	--	--	<0.45	<0.45	<0.42	--	--
1,3-Dimethyl-2,5-Dinitrobenzene	UG/L	--	--	--	--	--	--	--	--	<0.42	<0.42	<0.40	--	--
1,4-Dimethyl-2,3-Dinitrobenzene	UG/L	--	--	--	--	--	--	--	--	<0.38	<0.38	<0.36	--	--
1,4-Dimethyl-2,5-Dinitrobenzene	UG/L	**57.0**	**77.0**	--	--	--	--	--	--	--	<0.76	<0.72	--	--
1,4-Dimethyl-2,6-Dinitrobenzene	UG/L	--	--	--	--	--	--	--	--	<0.22	<0.22	<0.21	--	--
1,5-Dimethyl-2,3-Dinitrobenzene	UG/L	--	--	--	--	--	--	--	--	<0.26	<0.26	<0.25	--	--
1,5-Dimethyl-2,4-Dinitrobenzene	UG/L	--	--	--	--	--	--	--	--	<0.27	<0.27	<0.25	--	--
SVOCs (µg/L)														
Naphthalene	UG/L	<0.78	<0.78	--	--	--	--	--	--	--	--	--	--	--
Anions (µg/L)														
Perchlorate	UG/L	--	--	--	--	--	<0.0022	--	--	--	--	--	--	--

Notes:

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* DNX isomer inadvertently omitted by the analytical laboratory

Note: Detections not observed in effluent samples

Table 1
Historical Clubhouse Inflow Ground Water Sample Results
Former DuPont Barksdale Works
Barksdale, Wisconsin

Location ID		CLUB HOUSE-INFLOW	CLUB HOUSE-INFLOW	CLUB HOUSE-INFLOW	CLUB HOUSE-INFLOW
Date Sampled		11/30/2016	04/25/2017	06/06/2017	10/08/2018
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result
NNOCs Target Analytes (µg/L)					
1,3,5-Trinitrobenzene	UG/L	--	<0.016 UJ	<0.017	<0.018
1,3-Dinitrobenzene	UG/L	--	<0.013 UJ	<0.014	<0.015
1-Methyl-3-Nitrobenzene	UG/L	--	<0.024 UJ	<0.025	<0.027
1-Methyl-4-Nitrobenzene	UG/L	--	<0.025 UJ	<0.025	<0.028
2-Amino-4,6-Dinitrotoluene	UG/L	--	<0.020 UJ	<0.021	<0.022
2-Nitrotoluene	UG/L	--	<0.021 UJ	<0.022	<0.023
2- And 4-Nitrotoluene	UG/L	--	--	--	--
2,4,6-Trinitrotoluene	UG/L	--	<0.021 UJ	<0.022	<0.023
2,4,6-Trinitroxylene	UG/L	--	<0.012 UJ	<0.012	<0.013
4-Amino-2,6-Dinitrotoluene	UG/L	--	<0.018 UJ	<0.019	<0.020
Nitrobenzene	UG/L	--	**0.072 J[H]**	<0.032	<0.035
Nitroglycerin	UG/L	--	<0.043 UJ	<0.044	<0.048
HMX	UG/L	--	<0.018 UJ	<0.019	<0.020
PETN	UG/L	--	<0.017 UJ	<0.018	<0.019
RDX	UG/L	--	<0.020 UJ	<0.021	<0.022
Tetryl	UG/L	--	<0.020 UJ	<0.021	<0.022
NNOCs DNT Isomers (µg/L)					
2,3-Dinitrotoluene	UG/L	--	<0.014 UJ	<0.015	<0.016
2,4-Dinitrotoluene	UG/L	--	<0.018 UJ	<0.019	<0.020
2,5-Dinitrotoluene	UG/L	--	<0.013 UJ	<0.014	<0.015
2,6-Dinitrotoluene	UG/L	--	<0.021 UJ	<0.022	<0.023
3,4-Dinitrotoluene	UG/L	--	<0.019 UJ	<0.020	<0.021
3,5-Dinitrotoluene	UG/L	--	<0.033 UJ	<0.033	<0.036
NNOCs DNX Isomers (µg/L)					
1,2-Dimethyl-3,4-Dinitrobenzene	UG/L	<0.23	<0.23	--	<0.25
1,2-Dimethyl-3,5-Dinitrobenzene	UG/L	<0.32	<0.32	--	<0.35
1,2-Dimethyl-3,6-Dinitrobenzene	UG/L	<0.40	<0.40	--	<0.43
1,2-Dimethyl-4,5-Dinitrobenzene	UG/L	<0.38	<0.38	--	<0.41
1,3-Dimethyl-2,4-Dinitrobenzene	UG/L	<0.44	<0.44	--	<0.48
1,3-Dimethyl-2,5-Dinitrobenzene	UG/L	<0.41	<0.41	--	<0.44
1,4-Dimethyl-2,3-Dinitrobenzene	UG/L	<0.37	<0.37	--	<0.40
1,4-Dimethyl-2,5-Dinitrobenzene	UG/L	<0.74	<0.74	--	<0.80
1,4-Dimethyl-2,6-Dinitrobenzene	UG/L	<0.22	<0.21	--	<0.23
1,5-Dimethyl-2,3-Dinitrobenzene	UG/L	<0.25	<0.25	--	<0.28
1,5-Dimethyl-2,4-Dinitrobenzene	UG/L	<0.26	<0.26	--	<0.29
SVOCs (µg/L)					
Naphthalene	UG/L	--	--	--	--
Anions (µg/L)					
Perchlorate	UG/L	--	--	--	--

Notes:

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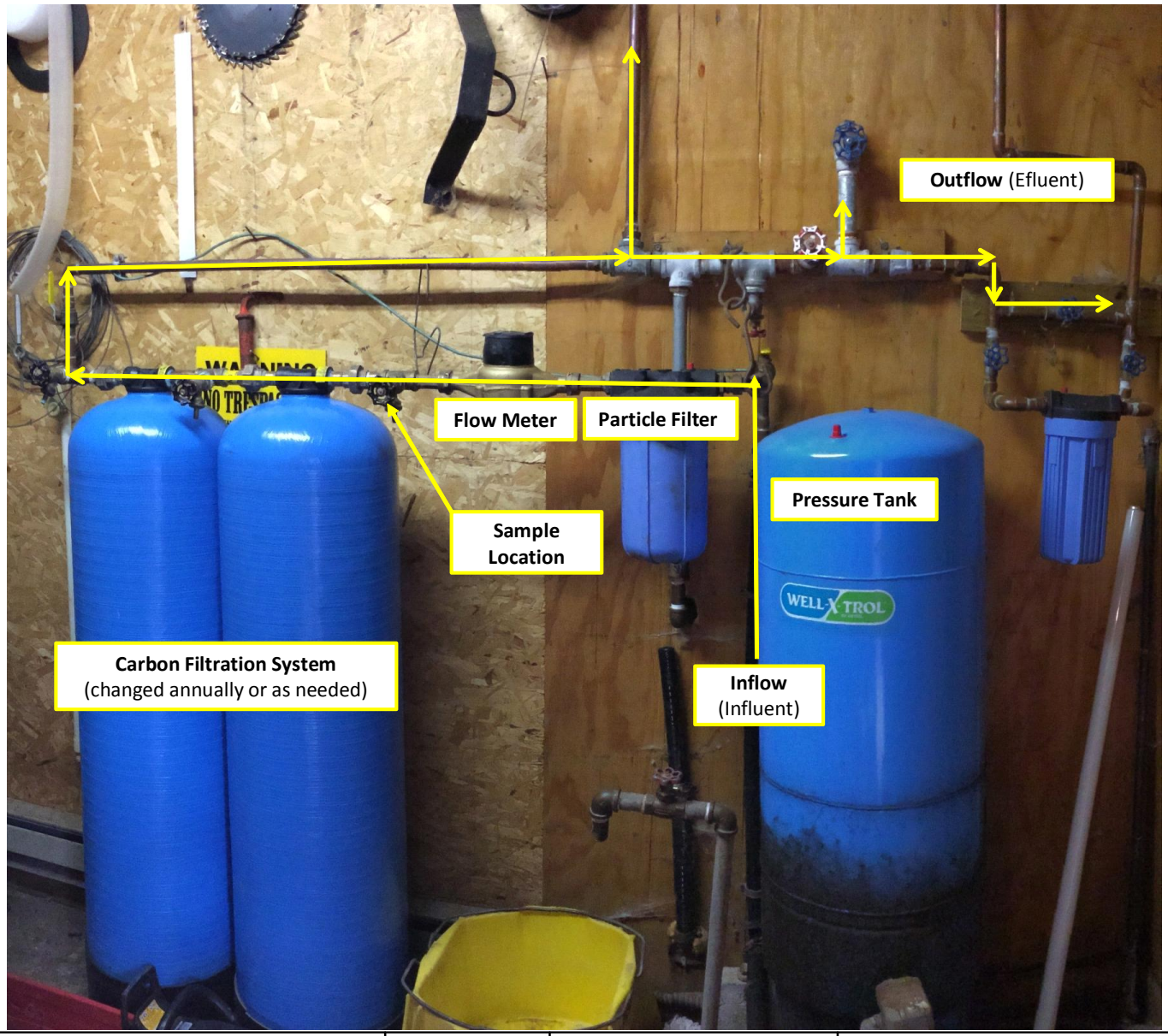

Area Map (Optional)

FILE NUMBER:	
DESIGNED BY:	NS
DRAWN BY:	KJB
DATA QUALITY CHECK BY:	NS

Chemours™

The Chemours Company
500 West Jefferson Street
Suite 1600
Louisville, Kentucky 40202

Clubhouse
Water System Flow Diagram

Former DuPont Barksdale Works
Barksdale, Wisconsin 54806

PROJECT NUMBER:	60563363
DATE:	Dec 2018
FIGURE NUMBER:	1

O:\GIS\BAR_GIS\Map_Files\BrettingClubhouseLtr2016\Fig01_SystemDiagram.mxd

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-115350-1
Client Project/Site: BAR-Clubhouse Well Sampling 2018

For:
Chemours Company FC, LLC The
c/o AECOM
Sabre Building, Suite 300
4051 Ogletown Road
Newark, Delaware 19713

Attn: Sharon Nordstrom

Authorized for release by:
10/23/2018 10:19:13 AM

Michelle Johnston, Project Manager II
(303)736-0110
michelle.johnston@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Chemours Company FC, LLC The
Project/Site: BAR-Clubhouse Well Sampling 2018

TestAmerica Job ID: 280-115350-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 280-115350-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE
Client: The Chemours Company FC, LLC
Project: BAR-Clubhouse Well Sampling 2018
Report Number: 280-115350-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Throughout this report the MDL is equivalent to the LOD and the RL is equivalent to the LOQ. The LOD and LOQ have been adjusted for all dilutions performed.

The LOD and LOQ for soil samples have been dry weight adjusted.

Sample Receipt

The samples were received on 10/10/2018 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 3.4º C, 3.6º C, 5.3º C and 5.3º C.

Receipt Exceptions

Two of four coolers were received on 10/10/2018, at 0900 and two of four coolers were delayed and received on 10/11/2018, at 0910. All coolers were received within temperature criteria. It can be noted that parent sample volume for GW2018-PZ-16-POT INFLOW (280-115350-1) as well as all sample volume for GW2018-CLUBHOUSE EFFLUENT (280-115350-4) and GW2018-CLUBHOUSE INFLOW (280-115350-5) were received in the two coolers received on 10/11/2018.

The start date of the job was logged as 10/11/2018, and the requested analyses were logged on a 15 business day turn around time due to current laboratory capacity. The client was notified on 10/11/2018.

No other anomalies were observed during sample receipt.

Semivolatiles - Method 8270C DNX

Samples GW2018-PZ-16-POT INFLOW (280-115350-1), GW2018-PZ-16-POT INFLOW DUP (280-115350-2), GW2018-PZ-16-POT EFFLUENT (280-115350-3), GW2018-CLUBHOUSE EFFLUENT (280-115350-4) and GW2018-CLUBHOUSE INFLOW (280-115350-5) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 10/15/2018 and analyzed on 10/18/2018 and 10/19/2018.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Explosives - Method 8321A

Samples GW2018-PZ-16-POT INFLOW (280-115350-1), GW2018-PZ-16-POT INFLOW DUP (280-115350-2), GW2018-PZ-16-POT EFFLUENT (280-115350-3), GW2018-CLUBHOUSE EFFLUENT (280-115350-4) and GW2018-CLUBHOUSE INFLOW (280-115350-5) were analyzed for explosives in accordance with EPA SW-846 Method 8321A. The samples were prepared on 10/13/2018 and analyzed on 10/15/2018.

Internal standard response for RDX13C3 (48.5%) was below acceptance limits (50-200%) for the following sample: GW2018-PZ-16-POT INFLOW (280-115350-1[MS]). The sample shows evidence of matrix interference; therefore, corrective action was not performed.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Chemours Company FC, LLC The
Project/Site: BAR-Clubhouse Well Sampling 2018

TestAmerica Job ID: 280-115350-1

Client Sample ID: GW2018-PZ-16-POT INFLOW — Lab Sample ID: 280-115350-1

No Detections.

Client Sample ID: GW2018-PZ-16-POT INFLOW DUP — Lab Sample ID: 280-115350-2

No Detections.

Client Sample ID: GW2018-PZ-16-POT EFFLUENT — Lab Sample ID: 280-115350-3

No Detections.

Client Sample ID: GW2018-CLUBHOUSE EFFLUENT — Lab Sample ID: 280-115350-4

No Detections.

Client Sample ID: GW2018-CLUBHOUSE INFLOW — Lab Sample ID: 280-115350-5

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Chemours Company FC, LLC The
Project/Site: BAR-Clubhouse Well Sampling 2018

TestAmerica Job ID: 280-115350-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
8321A	Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)	SW846	TAL DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL DEN
3535	Solid-Phase Extraction (SPE)	SW846	TAL DEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Chemours Company FC, LLC The
Project/Site: BAR-Clubhouse Well Sampling 2018

TestAmerica Job ID: 280-115350-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-115350-1	GW2018-PZ-16-POT INFLOW	Water	10/08/18 14:30	10/11/18 09:10
280-115350-2	GW2018-PZ-16-POT INFLOW DUP	Water	10/08/18 14:30	10/10/18 09:00
280-115350-3	GW2018-PZ-16-POT EFFLUENT	Water	10/08/18 15:30	10/10/18 09:00
280-115350-4	GW2018-CLUBHOUSE EFFLUENT	Water	10/08/18 16:30	10/11/18 09:10
280-115350-5	GW2018-CLUBHOUSE INFLOW	Water	10/08/18 17:00	10/11/18 09:10

Client Sample ID: GW2018-PZ-16-POT INFLOW

Lab Sample ID: 280-115350-1

Date Collected: 10/08/18 14:30

Matrix: Water

Date Received: 10/11/18 09:10

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	0.25	U	5.2	0.25	ug/L		10/15/18 10:26	10/18/18 23:12	1
1,2-Dimethyl-3,5-Dinitrobenzene	0.34	U	5.2	0.34	ug/L		10/15/18 10:26	10/18/18 23:12	1
1,2-Dimethyl-3,6-Dinitrobenzene	0.43	U	5.2	0.43	ug/L		10/15/18 10:26	10/18/18 23:12	1
1,2-Dimethyl-4,5-Dinitrobenzene	0.41	U	5.2	0.41	ug/L		10/15/18 10:26	10/18/18 23:12	1
1,3-Dimethyl-2,4-Dinitrobenzene	0.47	U	5.2	0.47	ug/L		10/15/18 10:26	10/18/18 23:12	1
1,3-Dimethyl-2,5-Dinitrobenzene	0.44	U	5.2	0.44	ug/L		10/15/18 10:26	10/18/18 23:12	1
1,4-Dimethyl-2,3-Dinitrobenzene	0.40	U	5.2	0.40	ug/L		10/15/18 10:26	10/18/18 23:12	1
1,4-Dimethyl-2,5-Dinitrobenzene	0.79	U	10000	0.79	ug/L		10/15/18 10:26	10/18/18 23:12	1
1,4-Dimethyl-2,6-Dinitrobenzene	0.23	U	5.2	0.23	ug/L		10/15/18 10:26	10/18/18 23:12	1
1,5-Dimethyl-2,3-Dinitrobenzene	0.27	U	5.2	0.27	ug/L		10/15/18 10:26	10/18/18 23:12	1
1,5-Dimethyl-2,4-Dinitrobenzene	0.28	U	5.2	0.28	ug/L		10/15/18 10:26	10/18/18 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*74*		*48 - 135*	*10/15/18 10:26*	*10/18/18 23:12*	*1*
2-Fluorobiphenyl	*77*		*48 - 135*	*10/15/18 10:26*	*10/18/18 23:12*	*1*
2-Fluorophenol	*80*		*41 - 135*	*10/15/18 10:26*	*10/18/18 23:12*	*1*
Nitrobenzene-d5	*75*		*42 - 135*	*10/15/18 10:26*	*10/18/18 23:12*	*1*
Phenol-d5	*80*		*46 - 135*	*10/15/18 10:26*	*10/18/18 23:12*	*1*
Terphenyl-d14	*79*		*20 - 135*	*10/15/18 10:26*	*10/18/18 23:12*	*1*

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.018	U	0.10	0.018	ug/L		10/13/18 13:04	10/15/18 18:44	1
1,3-Dinitrobenzene	0.015	U	0.10	0.015	ug/L		10/13/18 13:04	10/15/18 18:44	1
2,3-Dinitrotoluene	0.016	U	0.10	0.016	ug/L		10/13/18 13:04	10/15/18 18:44	1
2,4,6-Trinitro-3-xylene	0.013	U	0.10	0.013	ug/L		10/13/18 13:04	10/15/18 18:44	1
2,4,6-Trinitrotoluene	0.023	U	0.10	0.023	ug/L		10/13/18 13:04	10/15/18 18:44	1
2,4-Dinitrotoluene	0.020	U	0.10	0.020	ug/L		10/13/18 13:04	10/15/18 18:44	1
2,5-Dinitrotoluene	0.015	U	0.10	0.015	ug/L		10/13/18 13:04	10/15/18 18:44	1
2,6-Dinitrotoluene	0.023	U	0.10	0.023	ug/L		10/13/18 13:04	10/15/18 18:44	1
2-Amino-4,6-dinitrotoluene	0.022	U	0.10	0.022	ug/L		10/13/18 13:04	10/15/18 18:44	1
2-Nitrotoluene	0.023	U	0.10	0.023	ug/L		10/13/18 13:04	10/15/18 18:44	1
3,4-Dinitrotoluene	0.021	U	0.10	0.021	ug/L		10/13/18 13:04	10/15/18 18:44	1
3,5-Dinitrotoluene	0.036	U	0.10	0.036	ug/L		10/13/18 13:04	10/15/18 18:44	1
3-Nitrotoluene	0.026	U	0.10	0.026	ug/L		10/13/18 13:04	10/15/18 18:44	1
4-Amino-2,6-dinitrotoluene	0.020	U	0.10	0.020	ug/L		10/13/18 13:04	10/15/18 18:44	1
4-Nitrotoluene	0.027	U	0.10	0.027	ug/L		10/13/18 13:04	10/15/18 18:44	1
HMX	0.020	U	0.10	0.020	ug/L		10/13/18 13:04	10/15/18 18:44	1
Nitrobenzene	0.035	U	0.10	0.035	ug/L		10/13/18 13:04	10/15/18 18:44	1
Nitroglycerin	0.047	U	0.15	0.047	ug/L		10/13/18 13:04	10/15/18 18:44	1
PETN	0.019	U	0.10	0.019	ug/L		10/13/18 13:04	10/15/18 18:44	1
RDX	0.022	U	0.10	0.022	ug/L		10/13/18 13:04	10/15/18 18:44	1
Tetryl	0.022	U	0.10	0.022	ug/L		10/13/18 13:04	10/15/18 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*119*		*48 - 130*	*10/13/18 13:04*	*10/15/18 18:44*	*1*

Client Sample ID: GW2018-PZ-16-POT INFLOW DUP
Date Collected: 10/08/18 14:30
Date Received: 10/10/18 09:00

Lab Sample ID: 280-115350-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	0.26	U	5.3	0.26	ug/L		10/15/18 10:26	10/19/18 00:25	1
1,2-Dimethyl-3,5-Dinitrobenzene	0.35	U	5.3	0.35	ug/L		10/15/18 10:26	10/19/18 00:25	1
1,2-Dimethyl-3,6-Dinitrobenzene	0.44	U	5.3	0.44	ug/L		10/15/18 10:26	10/19/18 00:25	1
1,2-Dimethyl-4,5-Dinitrobenzene	0.42	U	5.3	0.42	ug/L		10/15/18 10:26	10/19/18 00:25	1
1,3-Dimethyl-2,4-Dinitrobenzene	0.48	U	5.3	0.48	ug/L		10/15/18 10:26	10/19/18 00:25	1
1,3-Dimethyl-2,5-Dinitrobenzene	0.45	U	5.3	0.45	ug/L		10/15/18 10:26	10/19/18 00:25	1
1,4-Dimethyl-2,3-Dinitrobenzene	0.41	U	5.3	0.41	ug/L		10/15/18 10:26	10/19/18 00:25	1
1,4-Dimethyl-2,5-Dinitrobenzene	0.81	U	11000	0.81	ug/L		10/15/18 10:26	10/19/18 00:25	1
1,4-Dimethyl-2,6-Dinitrobenzene	0.23	U	5.3	0.23	ug/L		10/15/18 10:26	10/19/18 00:25	1
1,5-Dimethyl-2,3-Dinitrobenzene	0.28	U	5.3	0.28	ug/L		10/15/18 10:26	10/19/18 00:25	1
1,5-Dimethyl-2,4-Dinitrobenzene	0.29	U	5.3	0.29	ug/L		10/15/18 10:26	10/19/18 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*81*		*48 - 135*	*10/15/18 10:26*	*10/19/18 00:25*	*1*
2-Fluorobiphenyl	*83*		*48 - 135*	*10/15/18 10:26*	*10/19/18 00:25*	*1*
2-Fluorophenol	*86*		*41 - 135*	*10/15/18 10:26*	*10/19/18 00:25*	*1*
Nitrobenzene-d5	*82*		*42 - 135*	*10/15/18 10:26*	*10/19/18 00:25*	*1*
Phenol-d5	*85*		*46 - 135*	*10/15/18 10:26*	*10/19/18 00:25*	*1*
Terphenyl-d14	*84*		*20 - 135*	*10/15/18 10:26*	*10/19/18 00:25*	*1*

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.018	U	0.11	0.018	ug/L		10/13/18 13:04	10/15/18 20:20	1
1,3-Dinitrobenzene	0.015	U	0.11	0.015	ug/L		10/13/18 13:04	10/15/18 20:20	1
2,3-Dinitrotoluene	0.016	U	0.11	0.016	ug/L		10/13/18 13:04	10/15/18 20:20	1
2,4,6-Trinitro-3-xylene	0.013	U	0.11	0.013	ug/L		10/13/18 13:04	10/15/18 20:20	1
2,4,6-Trinitrotoluene	0.023	U	0.11	0.023	ug/L		10/13/18 13:04	10/15/18 20:20	1
2,4-Dinitrotoluene	0.020	U	0.11	0.020	ug/L		10/13/18 13:04	10/15/18 20:20	1
2,5-Dinitrotoluene	0.015	U	0.11	0.015	ug/L		10/13/18 13:04	10/15/18 20:20	1
2,6-Dinitrotoluene	0.023	U	0.11	0.023	ug/L		10/13/18 13:04	10/15/18 20:20	1
2-Amino-4,6-dinitrotoluene	0.022	U	0.11	0.022	ug/L		10/13/18 13:04	10/15/18 20:20	1
2-Nitrotoluene	0.023	U	0.11	0.023	ug/L		10/13/18 13:04	10/15/18 20:20	1
3,4-Dinitrotoluene	0.021	U	0.11	0.021	ug/L		10/13/18 13:04	10/15/18 20:20	1
3,5-Dinitrotoluene	0.036	U	0.11	0.036	ug/L		10/13/18 13:04	10/15/18 20:20	1
3-Nitrotoluene	0.026	U	0.11	0.026	ug/L		10/13/18 13:04	10/15/18 20:20	1
4-Amino-2,6-dinitrotoluene	0.020	U	0.11	0.020	ug/L		10/13/18 13:04	10/15/18 20:20	1
4-Nitrotoluene	0.028	U	0.11	0.028	ug/L		10/13/18 13:04	10/15/18 20:20	1
HMX	0.020	U	0.11	0.020	ug/L		10/13/18 13:04	10/15/18 20:20	1
Nitrobenzene	0.035	U	0.11	0.035	ug/L		10/13/18 13:04	10/15/18 20:20	1
Nitroglycerin	0.048	U	0.15	0.048	ug/L		10/13/18 13:04	10/15/18 20:20	1
PETN	0.019	U	0.11	0.019	ug/L		10/13/18 13:04	10/15/18 20:20	1
RDX	0.022	U	0.11	0.022	ug/L		10/13/18 13:04	10/15/18 20:20	1
Tetryl	0.022	U	0.11	0.022	ug/L		10/13/18 13:04	10/15/18 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*84*		*48 - 130*	*10/13/18 13:04*	*10/15/18 20:20*	*1*

Client Sample ID: GW2018-PZ-16-POT EFFLUENT
Lab Sample ID: 280-115350-3
Date Collected: 10/08/18 15:30
Matrix: Water
Date Received: 10/10/18 09:00

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	0.25	U	5.1	0.25	ug/L		10/15/18 10:26	10/19/18 00:50	1
1,2-Dimethyl-3,5-Dinitrobenzene	0.34	U	5.1	0.34	ug/L		10/15/18 10:26	10/19/18 00:50	1
1,2-Dimethyl-3,6-Dinitrobenzene	0.42	U	5.1	0.42	ug/L		10/15/18 10:26	10/19/18 00:50	1
1,2-Dimethyl-4,5-Dinitrobenzene	0.40	U	5.1	0.40	ug/L		10/15/18 10:26	10/19/18 00:50	1
1,3-Dimethyl-2,4-Dinitrobenzene	0.46	U	5.1	0.46	ug/L		10/15/18 10:26	10/19/18 00:50	1
1,3-Dimethyl-2,5-Dinitrobenzene	0.43	U	5.1	0.43	ug/L		10/15/18 10:26	10/19/18 00:50	1
1,4-Dimethyl-2,3-Dinitrobenzene	0.39	U	5.1	0.39	ug/L		10/15/18 10:26	10/19/18 00:50	1
1,4-Dimethyl-2,5-Dinitrobenzene	0.78	U	10000	0.78	ug/L		10/15/18 10:26	10/19/18 00:50	1
1,4-Dimethyl-2,6-Dinitrobenzene	0.23	U	5.1	0.23	ug/L		10/15/18 10:26	10/19/18 00:50	1
1,5-Dimethyl-2,3-Dinitrobenzene	0.27	U	5.1	0.27	ug/L		10/15/18 10:26	10/19/18 00:50	1
1,5-Dimethyl-2,4-Dinitrobenzene	0.28	U	5.1	0.28	ug/L		10/15/18 10:26	10/19/18 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*80*		*48 - 135*	*10/15/18 10:26*	*10/19/18 00:50*	*1*
2-Fluorobiphenyl	*81*		*48 - 135*	*10/15/18 10:26*	*10/19/18 00:50*	*1*
2-Fluorophenol	*87*		*41 - 135*	*10/15/18 10:26*	*10/19/18 00:50*	*1*
Nitrobenzene-d5	*78*		*42 - 135*	*10/15/18 10:26*	*10/19/18 00:50*	*1*
Phenol-d5	*86*		*46 - 135*	*10/15/18 10:26*	*10/19/18 00:50*	*1*
Terphenyl-d14	*84*		*20 - 135*	*10/15/18 10:26*	*10/19/18 00:50*	*1*

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.018	U	0.10	0.018	ug/L		10/13/18 13:04	10/15/18 20:52	1
1,3-Dinitrobenzene	0.014	U	0.10	0.014	ug/L		10/13/18 13:04	10/15/18 20:52	1
2,3-Dinitrotoluene	0.015	U	0.10	0.015	ug/L		10/13/18 13:04	10/15/18 20:52	1
2,4,6-Trinitro-3-xylene	0.012	U	0.10	0.012	ug/L		10/13/18 13:04	10/15/18 20:52	1
2,4,6-Trinitrotoluene	0.023	U	0.10	0.023	ug/L		10/13/18 13:04	10/15/18 20:52	1
2,4-Dinitrotoluene	0.020	U	0.10	0.020	ug/L		10/13/18 13:04	10/15/18 20:52	1
2,5-Dinitrotoluene	0.014	U	0.10	0.014	ug/L		10/13/18 13:04	10/15/18 20:52	1
2,6-Dinitrotoluene	0.023	U	0.10	0.023	ug/L		10/13/18 13:04	10/15/18 20:52	1
2-Amino-4,6-dinitrotoluene	0.022	U	0.10	0.022	ug/L		10/13/18 13:04	10/15/18 20:52	1
2-Nitrotoluene	0.023	U	0.10	0.023	ug/L		10/13/18 13:04	10/15/18 20:52	1
3,4-Dinitrotoluene	0.021	U	0.10	0.021	ug/L		10/13/18 13:04	10/15/18 20:52	1
3,5-Dinitrotoluene	0.035	U	0.10	0.035	ug/L		10/13/18 13:04	10/15/18 20:52	1
3-Nitrotoluene	0.026	U	0.10	0.026	ug/L		10/13/18 13:04	10/15/18 20:52	1
4-Amino-2,6-dinitrotoluene	0.020	U	0.10	0.020	ug/L		10/13/18 13:04	10/15/18 20:52	1
4-Nitrotoluene	0.027	U	0.10	0.027	ug/L		10/13/18 13:04	10/15/18 20:52	1
HMX	0.020	U	0.10	0.020	ug/L		10/13/18 13:04	10/15/18 20:52	1
Nitrobenzene	0.034	U	0.10	0.034	ug/L		10/13/18 13:04	10/15/18 20:52	1
Nitroglycerin	0.046	U	0.14	0.046	ug/L		10/13/18 13:04	10/15/18 20:52	1
PETN	0.019	U	0.10	0.019	ug/L		10/13/18 13:04	10/15/18 20:52	1
RDX	0.022	U	0.10	0.022	ug/L		10/13/18 13:04	10/15/18 20:52	1
Tetryl	0.022	U	0.10	0.022	ug/L		10/13/18 13:04	10/15/18 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*63*		*48 - 130*	*10/13/18 13:04*	*10/15/18 20:52*	*1*

Client: Chemours Company FC, LLC The
Project/Site: BAR-Clubhouse Well Sampling 2018

TestAmerica Job ID: 280-115350-1

Client Sample ID: GW2018-CLUBHOUSE EFFLUENT
Date Collected: 10/08/18 16:30
Date Received: 10/11/18 09:10

Lab Sample ID: 280-115350-4
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	0.25	U	5.2	0.25	ug/L		10/15/18 10:26	10/19/18 01:15	1
1,2-Dimethyl-3,5-Dinitrobenzene	0.34	U	5.2	0.34	ug/L		10/15/18 10:26	10/19/18 01:15	1
1,2-Dimethyl-3,6-Dinitrobenzene	0.42	U	5.2	0.42	ug/L		10/15/18 10:26	10/19/18 01:15	1
1,2-Dimethyl-4,5-Dinitrobenzene	0.40	U	5.2	0.40	ug/L		10/15/18 10:26	10/19/18 01:15	1
1,3-Dimethyl-2,4-Dinitrobenzene	0.47	U	5.2	0.47	ug/L		10/15/18 10:26	10/19/18 01:15	1
1,3-Dimethyl-2,5-Dinitrobenzene	0.44	U	5.2	0.44	ug/L		10/15/18 10:26	10/19/18 01:15	1
1,4-Dimethyl-2,3-Dinitrobenzene	0.39	U	5.2	0.39	ug/L		10/15/18 10:26	10/19/18 01:15	1
1,4-Dimethyl-2,5-Dinitrobenzene	0.79	U	10000	0.79	ug/L		10/15/18 10:26	10/19/18 01:15	1
1,4-Dimethyl-2,6-Dinitrobenzene	0.23	U	5.2	0.23	ug/L		10/15/18 10:26	10/19/18 01:15	1
1,5-Dimethyl-2,3-Dinitrobenzene	0.27	U	5.2	0.27	ug/L		10/15/18 10:26	10/19/18 01:15	1
1,5-Dimethyl-2,4-Dinitrobenzene	0.28	U	5.2	0.28	ug/L		10/15/18 10:26	10/19/18 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*70*		*48 - 135*	*10/15/18 10:26*	*10/19/18 01:15*	*1*
2-Fluorobiphenyl	*69*		*48 - 135*	*10/15/18 10:26*	*10/19/18 01:15*	*1*
2-Fluorophenol	*74*		*41 - 135*	*10/15/18 10:26*	*10/19/18 01:15*	*1*
Nitrobenzene-d5	*68*		*42 - 135*	*10/15/18 10:26*	*10/19/18 01:15*	*1*
Phenol-d5	*73*		*46 - 135*	*10/15/18 10:26*	*10/19/18 01:15*	*1*
Terphenyl-d14	*78*		*20 - 135*	*10/15/18 10:26*	*10/19/18 01:15*	*1*

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.018	U	0.10	0.018	ug/L		10/13/18 13:04	10/15/18 21:25	1
1,3-Dinitrobenzene	0.015	U	0.10	0.015	ug/L		10/13/18 13:04	10/15/18 21:25	1
2,3-Dinitrotoluene	0.016	U	0.10	0.016	ug/L		10/13/18 13:04	10/15/18 21:25	1
2,4,6-Trinitro-3-xylene	0.013	U	0.10	0.013	ug/L		10/13/18 13:04	10/15/18 21:25	1
2,4,6-Trinitrotoluene	0.023	U	0.10	0.023	ug/L		10/13/18 13:04	10/15/18 21:25	1
2,4-Dinitrotoluene	0.020	U	0.10	0.020	ug/L		10/13/18 13:04	10/15/18 21:25	1
2,5-Dinitrotoluene	0.015	U	0.10	0.015	ug/L		10/13/18 13:04	10/15/18 21:25	1
2,6-Dinitrotoluene	0.023	U	0.10	0.023	ug/L		10/13/18 13:04	10/15/18 21:25	1
2-Amino-4,6-dinitrotoluene	0.022	U	0.10	0.022	ug/L		10/13/18 13:04	10/15/18 21:25	1
2-Nitrotoluene	0.023	U	0.10	0.023	ug/L		10/13/18 13:04	10/15/18 21:25	1
3,4-Dinitrotoluene	0.021	U	0.10	0.021	ug/L		10/13/18 13:04	10/15/18 21:25	1
3,5-Dinitrotoluene	0.035	U	0.10	0.035	ug/L		10/13/18 13:04	10/15/18 21:25	1
3-Nitrotoluene	0.026	U	0.10	0.026	ug/L		10/13/18 13:04	10/15/18 21:25	1
4-Amino-2,6-dinitrotoluene	0.020	U	0.10	0.020	ug/L		10/13/18 13:04	10/15/18 21:25	1
4-Nitrotoluene	0.027	U	0.10	0.027	ug/L		10/13/18 13:04	10/15/18 21:25	1
HMX	0.020	U	0.10	0.020	ug/L		10/13/18 13:04	10/15/18 21:25	1
Nitrobenzene	0.034	U	0.10	0.034	ug/L		10/13/18 13:04	10/15/18 21:25	1
Nitroglycerin	0.047	U	0.15	0.047	ug/L		10/13/18 13:04	10/15/18 21:25	1
PETN	0.019	U	0.10	0.019	ug/L		10/13/18 13:04	10/15/18 21:25	1
RDX	0.022	U	0.10	0.022	ug/L		10/13/18 13:04	10/15/18 21:25	1
Tetryl	0.022	U	0.10	0.022	ug/L		10/13/18 13:04	10/15/18 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*86*		*48 - 130*	*10/13/18 13:04*	*10/15/18 21:25*	*1*

Client Sample ID: GW2018-CLUBHOUSE INFLOW

Lab Sample ID: 280-115350-5

Date Collected: 10/08/18 17:00

Matrix: Water

Date Received: 10/11/18 09:10

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	0.25	U	5.3	0.25	ug/L		10/15/18 10:26	10/19/18 01:40	1
1,2-Dimethyl-3,5-Dinitrobenzene	0.35	U	5.3	0.35	ug/L		10/15/18 10:26	10/19/18 01:40	1
1,2-Dimethyl-3,6-Dinitrobenzene	0.43	U	5.3	0.43	ug/L		10/15/18 10:26	10/19/18 01:40	1
1,2-Dimethyl-4,5-Dinitrobenzene	0.41	U	5.3	0.41	ug/L		10/15/18 10:26	10/19/18 01:40	1
1,3-Dimethyl-2,4-Dinitrobenzene	0.48	U	5.3	0.48	ug/L		10/15/18 10:26	10/19/18 01:40	1
1,3-Dimethyl-2,5-Dinitrobenzene	0.44	U	5.3	0.44	ug/L		10/15/18 10:26	10/19/18 01:40	1
1,4-Dimethyl-2,3-Dinitrobenzene	0.40	U	5.3	0.40	ug/L		10/15/18 10:26	10/19/18 01:40	1
1,4-Dimethyl-2,5-Dinitrobenzene	0.80	U	11000	0.80	ug/L		10/15/18 10:26	10/19/18 01:40	1
1,4-Dimethyl-2,6-Dinitrobenzene	0.23	U	5.3	0.23	ug/L		10/15/18 10:26	10/19/18 01:40	1
1,5-Dimethyl-2,3-Dinitrobenzene	0.28	U	5.3	0.28	ug/L		10/15/18 10:26	10/19/18 01:40	1
1,5-Dimethyl-2,4-Dinitrobenzene	0.29	U	5.3	0.29	ug/L		10/15/18 10:26	10/19/18 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*75*		*48 - 135*	*10/15/18 10:26*	*10/19/18 01:40*	*1*
2-Fluorobiphenyl	*77*		*48 - 135*	*10/15/18 10:26*	*10/19/18 01:40*	*1*
2-Fluorophenol	*79*		*41 - 135*	*10/15/18 10:26*	*10/19/18 01:40*	*1*
Nitrobenzene-d5	*76*		*42 - 135*	*10/15/18 10:26*	*10/19/18 01:40*	*1*
Phenol-d5	*79*		*46 - 135*	*10/15/18 10:26*	*10/19/18 01:40*	*1*
Terphenyl-d14	*79*		*20 - 135*	*10/15/18 10:26*	*10/19/18 01:40*	*1*

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.018	U	0.11	0.018	ug/L		10/13/18 13:04	10/15/18 21:57	1
1,3-Dinitrobenzene	0.015	U	0.11	0.015	ug/L		10/13/18 13:04	10/15/18 21:57	1
2,3-Dinitrotoluene	0.016	U	0.11	0.016	ug/L		10/13/18 13:04	10/15/18 21:57	1
2,4,6-Trinitro-3-xylene	0.013	U	0.11	0.013	ug/L		10/13/18 13:04	10/15/18 21:57	1
2,4,6-Trinitrotoluene	0.023	U	0.11	0.023	ug/L		10/13/18 13:04	10/15/18 21:57	1
2,4-Dinitrotoluene	0.020	U	0.11	0.020	ug/L		10/13/18 13:04	10/15/18 21:57	1
2,5-Dinitrotoluene	0.015	U	0.11	0.015	ug/L		10/13/18 13:04	10/15/18 21:57	1
2,6-Dinitrotoluene	0.023	U	0.11	0.023	ug/L		10/13/18 13:04	10/15/18 21:57	1
2-Amino-4,6-dinitrotoluene	0.022	U	0.11	0.022	ug/L		10/13/18 13:04	10/15/18 21:57	1
2-Nitrotoluene	0.023	U	0.11	0.023	ug/L		10/13/18 13:04	10/15/18 21:57	1
3,4-Dinitrotoluene	0.021	U	0.11	0.021	ug/L		10/13/18 13:04	10/15/18 21:57	1
3,5-Dinitrotoluene	0.036	U	0.11	0.036	ug/L		10/13/18 13:04	10/15/18 21:57	1
3-Nitrotoluene	0.027	U	0.11	0.027	ug/L		10/13/18 13:04	10/15/18 21:57	1
4-Amino-2,6-dinitrotoluene	0.020	U	0.11	0.020	ug/L		10/13/18 13:04	10/15/18 21:57	1
4-Nitrotoluene	0.028	U	0.11	0.028	ug/L		10/13/18 13:04	10/15/18 21:57	1
HMX	0.020	U	0.11	0.020	ug/L		10/13/18 13:04	10/15/18 21:57	1
Nitrobenzene	0.035	U	0.11	0.035	ug/L		10/13/18 13:04	10/15/18 21:57	1
Nitroglycerin	0.048	U	0.15	0.048	ug/L		10/13/18 13:04	10/15/18 21:57	1
PETN	0.019	U	0.11	0.019	ug/L		10/13/18 13:04	10/15/18 21:57	1
RDX	0.022	U	0.11	0.022	ug/L		10/13/18 13:04	10/15/18 21:57	1
Tetryl	0.022	U	0.11	0.022	ug/L		10/13/18 13:04	10/15/18 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*91*		*48 - 130*	*10/13/18 13:04*	*10/15/18 21:57*	*1*

Surrogate Summary

Client: Chemours Company FC, LLC The
Project/Site: BAR-Clubhouse Well Sampling 2018

TestAmerica Job ID: 280-115350-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(48-135)	(48-135)	(41-135)	(42-135)	(46-135)	(20-135)
280-115350-1	GW2018-PZ-16-POT INFLOW	74	77	80	75	80	79
280-115350-1 MS	GW2018-PZ-16-POT INFLOW	79	76	77	72	77	82
280-115350-1 MSD	GW2018-PZ-16-POT INFLOW	79	73	73	69	75	82
280-115350-2	GW2018-PZ-16-POT INFLOW DUP	81	83	86	82	85	84
280-115350-3	GW2018-PZ-16-POT EFFLUEN	80	81	87	78	86	84
280-115350-4	GW2018-CLUBHOUSE EFFLUENT	70	69	74	68	73	78
280-115350-5	GW2018-CLUBHOUSE INFLOV	75	77	79	76	79	79
LCS 280-433392/2-A	Lab Control Sample	82	80	82	75	83	81
MB 280-433392/1-A	Method Blank	76	78	80	77	81	77

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		NBZ
Lab Sample ID	Client Sample ID	(48-130)
280-115350-1	GW2018-PZ-16-POT INFLOW	119
280-115350-1 MS	GW2018-PZ-16-POT INFLOW	71
280-115350-1 MSD	GW2018-PZ-16-POT INFLOW	85
280-115350-2	GW2018-PZ-16-POT INFLOW DUP	84
280-115350-3	GW2018-PZ-16-POT EFFLUEN	63
280-115350-4	GW2018-CLUBHOUSE EFFLUENT	86
280-115350-5	GW2018-CLUBHOUSE INFLOV	91
LCS 280-433265/2-A	Lab Control Sample	87
MB 280-433265/1-A	Method Blank	82

Surrogate Legend

NBZ = Nitrobenzene-d5

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-433392/1-A
Matrix: Water
Analysis Batch: 434017

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 433392

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	0.24	U	5.0	0.24	ug/L		10/15/18 10:26	10/18/18 21:09	1
1,2-Dimethyl-3,5-Dinitrobenzene	0.33	U	5.0	0.33	ug/L		10/15/18 10:26	10/18/18 21:09	1
1,2-Dimethyl-3,6-Dinitrobenzene	0.41	U	5.0	0.41	ug/L		10/15/18 10:26	10/18/18 21:09	1
1,2-Dimethyl-4,5-Dinitrobenzene	0.39	U	5.0	0.39	ug/L		10/15/18 10:26	10/18/18 21:09	1
1,3-Dimethyl-2,4-Dinitrobenzene	0.45	U	5.0	0.45	ug/L		10/15/18 10:26	10/18/18 21:09	1
1,3-Dimethyl-2,5-Dinitrobenzene	0.42	U	5.0	0.42	ug/L		10/15/18 10:26	10/18/18 21:09	1
1,4-Dimethyl-2,3-Dinitrobenzene	0.38	U	5.0	0.38	ug/L		10/15/18 10:26	10/18/18 21:09	1
1,4-Dimethyl-2,5-Dinitrobenzene	0.76	U	10000	0.76	ug/L		10/15/18 10:26	10/18/18 21:09	1
1,4-Dimethyl-2,6-Dinitrobenzene	0.22	U	5.0	0.22	ug/L		10/15/18 10:26	10/18/18 21:09	1
1,5-Dimethyl-2,3-Dinitrobenzene	0.26	U	5.0	0.26	ug/L		10/15/18 10:26	10/18/18 21:09	1
1,5-Dimethyl-2,4-Dinitrobenzene	0.27	U	5.0	0.27	ug/L		10/15/18 10:26	10/18/18 21:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*48 - 135*	*10/15/18 10:26*	*10/18/18 21:09*	*1*
2-Fluorobiphenyl	*78*		*48 - 135*	*10/15/18 10:26*	*10/18/18 21:09*	*1*
2-Fluorophenol	*80*		*41 - 135*	*10/15/18 10:26*	*10/18/18 21:09*	*1*
Nitrobenzene-d5	*77*		*42 - 135*	*10/15/18 10:26*	*10/18/18 21:09*	*1*
Phenol-d5	*81*		*46 - 135*	*10/15/18 10:26*	*10/18/18 21:09*	*1*
Terphenyl-d14	*77*		*20 - 135*	*10/15/18 10:26*	*10/18/18 21:09*	*1*

Lab Sample ID: LCS 280-433392/2-A
Matrix: Water
Analysis Batch: 434017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 433392

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dimethyl-3,4-Dinitrobenzene	50.0	50.9		ug/L		102	50 - 135
1,2-Dimethyl-3,5-Dinitrobenzene	50.0	50.5		ug/L		101	50 - 135
1,2-Dimethyl-3,6-Dinitrobenzene	50.0	50.5		ug/L		101	50 - 135
1,2-Dimethyl-4,5-Dinitrobenzene	50.0	47.4		ug/L		95	50 - 135
1,3-Dimethyl-2,4-Dinitrobenzene	50.0	49.2		ug/L		98	50 - 135
1,3-Dimethyl-2,5-Dinitrobenzene	50.0	51.0		ug/L		102	50 - 135
1,4-Dimethyl-2,3-Dinitrobenzene	50.0	50.5		ug/L		101	50 - 135
1,4-Dimethyl-2,5-Dinitrobenzene	50.0	50.4	J	ug/L		101	50 - 135
1,4-Dimethyl-2,6-Dinitrobenzene	50.0	50.8		ug/L		102	50 - 135
1,5-Dimethyl-2,3-Dinitrobenzene	50.0	50.3		ug/L		101	50 - 135
1,5-Dimethyl-2,4-Dinitrobenzene	50.0	51.5		ug/L		103	50 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*82*		*48 - 135*
2-Fluorobiphenyl	*80*		*48 - 135*
2-Fluorophenol	*82*		*41 - 135*
Nitrobenzene-d5	*75*		*42 - 135*
Phenol-d5	*83*		*46 - 135*
Terphenyl-d14	*81*		*20 - 135*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-115350-1 MS
Matrix: Water
Analysis Batch: 434017

Client Sample ID: GW2018-PZ-16-POT INFLOW
Prep Type: Total/NA
Prep Batch: 433392

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dimethyl-3,4-Dinitrobenzene	0.25	U	52.8	52.7		ug/L		100	50 - 135
1,2-Dimethyl-3,5-Dinitrobenzene	0.34	U	52.8	52.4		ug/L		99	50 - 135
1,2-Dimethyl-3,6-Dinitrobenzene	0.43	U	52.8	52.1		ug/L		99	50 - 135
1,2-Dimethyl-4,5-Dinitrobenzene	0.41	U	52.8	50.7		ug/L		96	50 - 135
1,3-Dimethyl-2,4-Dinitrobenzene	0.47	U	52.8	51.0		ug/L		97	50 - 135
1,3-Dimethyl-2,5-Dinitrobenzene	0.44	U	52.8	52.4		ug/L		99	50 - 135
1,4-Dimethyl-2,3-Dinitrobenzene	0.40	U	52.8	51.0		ug/L		97	50 - 135
1,4-Dimethyl-2,5-Dinitrobenzene	0.79	U	52.8	50.5	J	ug/L		96	50 - 135
1,4-Dimethyl-2,6-Dinitrobenzene	0.23	U	52.8	50.9		ug/L		96	50 - 135
1,5-Dimethyl-2,3-Dinitrobenzene	0.27	U	52.8	51.3		ug/L		97	50 - 135
1,5-Dimethyl-2,4-Dinitrobenzene	0.28	U	52.8	52.6		ug/L		100	50 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*79*		*48 - 135*
2-Fluorobiphenyl	*76*		*48 - 135*
2-Fluorophenol	*77*		*41 - 135*
Nitrobenzene-d5	*72*		*42 - 135*
Phenol-d5	*77*		*46 - 135*
Terphenyl-d14	*82*		*20 - 135*

Lab Sample ID: 280-115350-1 MSD
Matrix: Water
Analysis Batch: 434017

Client Sample ID: GW2018-PZ-16-POT INFLOW
Prep Type: Total/NA
Prep Batch: 433392

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dimethyl-3,4-Dinitrobenzene	0.25	U	52.1	51.5		ug/L		99	50 - 135	2	30
1,2-Dimethyl-3,5-Dinitrobenzene	0.34	U	52.1	52.0		ug/L		100	50 - 135	1	30
1,2-Dimethyl-3,6-Dinitrobenzene	0.43	U	52.1	50.0		ug/L		96	50 - 135	4	30
1,2-Dimethyl-4,5-Dinitrobenzene	0.41	U	52.1	49.9		ug/L		96	50 - 135	1	30
1,3-Dimethyl-2,4-Dinitrobenzene	0.47	U	52.1	48.8		ug/L		94	50 - 135	4	30
1,3-Dimethyl-2,5-Dinitrobenzene	0.44	U	52.1	51.6		ug/L		99	50 - 135	2	30
1,4-Dimethyl-2,3-Dinitrobenzene	0.40	U	52.1	49.9		ug/L		96	50 - 135	2	30
1,4-Dimethyl-2,5-Dinitrobenzene	0.79	U	52.1	49.2	J	ug/L		95	50 - 135	3	30
1,4-Dimethyl-2,6-Dinitrobenzene	0.23	U	52.1	49.8		ug/L		96	50 - 135	2	30
1,5-Dimethyl-2,3-Dinitrobenzene	0.27	U	52.1	50.3		ug/L		97	50 - 135	2	30
1,5-Dimethyl-2,4-Dinitrobenzene	0.28	U	52.1	51.0		ug/L		98	50 - 135	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*79*		*48 - 135*
2-Fluorobiphenyl	*73*		*48 - 135*
2-Fluorophenol	*73*		*41 - 135*
Nitrobenzene-d5	*69*		*42 - 135*
Phenol-d5	*75*		*46 - 135*
Terphenyl-d14	*82*		*20 - 135*

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Lab Sample ID: MB 280-433265/1-A
Matrix: Water
Analysis Batch: 433719

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 433265

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.017	U	0.10	0.017	ug/L		10/13/18 13:04	10/15/18 17:07	1
1,3-Dinitrobenzene	0.014	U	0.10	0.014	ug/L		10/13/18 13:04	10/15/18 17:07	1
2,3-Dinitrotoluene	0.015	U	0.10	0.015	ug/L		10/13/18 13:04	10/15/18 17:07	1
2,4,6-Trinitro-3-xylene	0.012	U	0.10	0.012	ug/L		10/13/18 13:04	10/15/18 17:07	1
2,4,6-Trinitrotoluene	0.022	U	0.10	0.022	ug/L		10/13/18 13:04	10/15/18 17:07	1
2,4-Dinitrotoluene	0.019	U	0.10	0.019	ug/L		10/13/18 13:04	10/15/18 17:07	1
2,5-Dinitrotoluene	0.014	U	0.10	0.014	ug/L		10/13/18 13:04	10/15/18 17:07	1
2,6-Dinitrotoluene	0.022	U	0.10	0.022	ug/L		10/13/18 13:04	10/15/18 17:07	1
2-Amino-4,6-dinitrotoluene	0.021	U	0.10	0.021	ug/L		10/13/18 13:04	10/15/18 17:07	1
2-Nitrotoluene	0.022	U	0.10	0.022	ug/L		10/13/18 13:04	10/15/18 17:07	1
3,4-Dinitrotoluene	0.020	U	0.10	0.020	ug/L		10/13/18 13:04	10/15/18 17:07	1
3,5-Dinitrotoluene	0.034	U	0.10	0.034	ug/L		10/13/18 13:04	10/15/18 17:07	1
3-Nitrotoluene	0.025	U	0.10	0.025	ug/L		10/13/18 13:04	10/15/18 17:07	1
4-Amino-2,6-dinitrotoluene	0.019	U	0.10	0.019	ug/L		10/13/18 13:04	10/15/18 17:07	1
4-Nitrotoluene	0.026	U	0.10	0.026	ug/L		10/13/18 13:04	10/15/18 17:07	1
HMX	0.019	U	0.10	0.019	ug/L		10/13/18 13:04	10/15/18 17:07	1
Nitrobenzene	0.033	U	0.10	0.033	ug/L		10/13/18 13:04	10/15/18 17:07	1
Nitroglycerin	0.045	U	0.14	0.045	ug/L		10/13/18 13:04	10/15/18 17:07	1
PETN	0.018	U	0.10	0.018	ug/L		10/13/18 13:04	10/15/18 17:07	1
RDX	0.021	U	0.10	0.021	ug/L		10/13/18 13:04	10/15/18 17:07	1
Tetryl	0.021	U	0.10	0.021	ug/L		10/13/18 13:04	10/15/18 17:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*82*		*48 - 130*	*10/13/18 13:04*	*10/15/18 17:07*	*1*

Lab Sample ID: LCS 280-433265/2-A
Matrix: Water
Analysis Batch: 433719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 433265

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trinitrobenzene	0.500	0.497		ug/L		99	48 - 135
1,3-Dinitrobenzene	0.500	0.472		ug/L		94	64 - 122
2,3-Dinitrotoluene	0.500	0.461		ug/L		92	50 - 150
2,4,6-Trinitro-3-xylene	0.500	0.532		ug/L		106	50 - 150
2,4,6-Trinitrotoluene	0.500	0.426		ug/L		85	10 - 145
2,4-Dinitrotoluene	0.500	0.466		ug/L		93	55 - 117
2,5-Dinitrotoluene	0.500	0.455		ug/L		91	50 - 150
2,6-Dinitrotoluene	0.500	0.467		ug/L		93	54 - 123
2-Amino-4,6-dinitrotoluene	0.500	0.426		ug/L		85	47 - 134
2-Nitrotoluene	0.500	0.494		ug/L		99	25 - 127
3,4-Dinitrotoluene	0.501	0.474		ug/L		95	50 - 150
3,5-Dinitrotoluene	0.500	0.562		ug/L		112	50 - 150
3-Nitrotoluene	0.500	0.450		ug/L		90	18 - 123
4-Amino-2,6-dinitrotoluene	0.500	0.447		ug/L		89	50 - 139
4-Nitrotoluene	0.500	0.482		ug/L		96	27 - 128
HMX	0.500	0.453		ug/L		91	63 - 119
Nitrobenzene	0.500	0.397		ug/L		79	39 - 131
Nitroglycerin	0.500	0.430		ug/L		86	60 - 121

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) (Continued)

Lab Sample ID: LCS 280-433265/2-A
Matrix: Water
Analysis Batch: 433719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 433265

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PETN			0.500	0.539		ug/L		108	46 - 151		
RDX			0.500	0.474		ug/L		95	71 - 127		
Tetryl			0.500	0.474		ug/L		95	15 - 134		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*87*		*48 - 130*

Lab Sample ID: 280-115350-1 MS
Matrix: Water
Analysis Batch: 433719

Client Sample ID: GW2018-PZ-16-POT INFLOW
Prep Type: Total/NA
Prep Batch: 433265

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,3,5-Trinitrobenzene	0.018	U	0.524	0.590		ug/L		113	48 - 135		
1,3-Dinitrobenzene	0.015	U	0.524	0.545		ug/L		104	64 - 122		
2,3-Dinitrotoluene	0.016	U	0.524	0.509		ug/L		97	50 - 150		
2,4,6-Trinitro-3-xylene	0.013	U	0.524	0.482		ug/L		92	50 - 150		
2,4,6-Trinitrotoluene	0.023	U	0.524	0.442		ug/L		84	10 - 145		
2,4-Dinitrotoluene	0.020	U	0.524	0.502		ug/L		96	55 - 117		
2,5-Dinitrotoluene	0.015	U	0.524	0.606		ug/L		115	50 - 150		
2,6-Dinitrotoluene	0.023	U	0.524	0.511		ug/L		98	54 - 123		
2-Amino-4,6-dinitrotoluene	0.022	U	0.524	0.542		ug/L		103	47 - 134		
2-Nitrotoluene	0.023	U	0.524	0.386		ug/L		74	25 - 127		
3,4-Dinitrotoluene	0.021	U	0.525	0.450		ug/L		86	50 - 150		
3,5-Dinitrotoluene	0.036	U	0.524	0.532		ug/L		102	50 - 150		
3-Nitrotoluene	0.026	U	0.524	0.365		ug/L		70	18 - 123		
4-Amino-2,6-dinitrotoluene	0.020	U	0.524	0.506		ug/L		96	50 - 139		
4-Nitrotoluene	0.027	U	0.524	0.423		ug/L		81	27 - 128		
HMX	0.020	U	0.524	0.563		ug/L		107	63 - 119		
Nitrobenzene	0.035	U	0.524	0.386		ug/L		74	39 - 131		
Nitroglycerin	0.047	U	0.524	0.443		ug/L		84	60 - 121		
PETN	0.019	U	0.524	0.472		ug/L		90	46 - 151		
RDX	0.022	U	0.524	0.524		ug/L		100	71 - 127		
Tetryl	0.022	U	0.524	0.452		ug/L		86	15 - 134		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5	*71*		*48 - 130*

Lab Sample ID: 280-115350-1 MSD
Matrix: Water
Analysis Batch: 433719

Client Sample ID: GW2018-PZ-16-POT INFLOW
Prep Type: Total/NA
Prep Batch: 433265

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trinitrobenzene	0.018	U	0.526	0.514		ug/L		98	48 - 135	14	52
1,3-Dinitrobenzene	0.015	U	0.526	0.478		ug/L		91	64 - 122	13	30
2,3-Dinitrotoluene	0.016	U	0.526	0.516		ug/L		98	50 - 150	1	30
2,4,6-Trinitro-3-xylene	0.013	U	0.526	0.522		ug/L		99	50 - 150	8	30
2,4,6-Trinitrotoluene	0.023	U	0.526	0.558		ug/L		106	10 - 145	23	70
2,4-Dinitrotoluene	0.020	U	0.526	0.482		ug/L		92	55 - 117	4	27

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) (Continued)

Lab Sample ID: 280-115350-1 MSD
Matrix: Water
Analysis Batch: 433719

Client Sample ID: GW2018-PZ-16-POT INFLOW
Prep Type: Total/NA
Prep Batch: 433265

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,5-Dinitrotoluene	0.015	U	0.526	0.497		ug/L		95	50 - 150	20	50
2,6-Dinitrotoluene	0.023	U	0.526	0.581		ug/L		110	54 - 123	13	46
2-Amino-4,6-dinitrotoluene	0.022	U	0.526	0.421		ug/L		80	47 - 134	25	52
2-Nitrotoluene	0.023	U	0.526	0.359		ug/L		68	25 - 127	7	67
3,4-Dinitrotoluene	0.021	U	0.526	0.603		ug/L		115	50 - 150	29	30
3,5-Dinitrotoluene	0.036	U	0.526	0.402		ug/L		77	50 - 150	28	30
3-Nitrotoluene	0.026	U	0.526	0.402		ug/L		76	18 - 123	10	75
4-Amino-2,6-dinitrotoluene	0.020	U	0.526	0.508		ug/L		97	50 - 139	0	68
4-Nitrotoluene	0.027	U	0.526	0.450		ug/L		85	27 - 128	6	70
HMX	0.020	U	0.526	0.496		ug/L		94	63 - 119	13	48
Nitrobenzene	0.035	U	0.526	0.385		ug/L		73	39 - 131	0	55
Nitroglycerin	0.047	U	0.526	0.478		ug/L		91	60 - 121	8	62
PETN	0.019	U	0.526	0.524		ug/L		100	46 - 151	10	79
RDX	0.022	U	0.526	0.532		ug/L		101	71 - 127	1	26
Tetryl	0.022	U	0.526	0.412		ug/L		78	15 - 134	9	58

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5	*85*		*48 - 130*

GC/MS Semi VOA

Prep Batch: 433392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-115350-1	GW2018-PZ-16-POT INFLOW	Total/NA	Water	3520C	
280-115350-2	GW2018-PZ-16-POT INFLOW DUP	Total/NA	Water	3520C	
280-115350-3	GW2018-PZ-16-POT EFFLUENT	Total/NA	Water	3520C	
280-115350-4	GW2018-CLUBHOUSE EFFLUENT	Total/NA	Water	3520C	
280-115350-5	GW2018-CLUBHOUSE INFLOW	Total/NA	Water	3520C	
MB 280-433392/1-A	Method Blank	Total/NA	Water	3520C	
LCS 280-433392/2-A	Lab Control Sample	Total/NA	Water	3520C	
280-115350-1 MS	GW2018-PZ-16-POT INFLOW	Total/NA	Water	3520C	
280-115350-1 MSD	GW2018-PZ-16-POT INFLOW	Total/NA	Water	3520C	

Analysis Batch: 434017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-115350-1	GW2018-PZ-16-POT INFLOW	Total/NA	Water	8270C	433392
280-115350-2	GW2018-PZ-16-POT INFLOW DUP	Total/NA	Water	8270C	433392
280-115350-3	GW2018-PZ-16-POT EFFLUENT	Total/NA	Water	8270C	433392
280-115350-4	GW2018-CLUBHOUSE EFFLUENT	Total/NA	Water	8270C	433392
280-115350-5	GW2018-CLUBHOUSE INFLOW	Total/NA	Water	8270C	433392
MB 280-433392/1-A	Method Blank	Total/NA	Water	8270C	433392
LCS 280-433392/2-A	Lab Control Sample	Total/NA	Water	8270C	433392
280-115350-1 MS	GW2018-PZ-16-POT INFLOW	Total/NA	Water	8270C	433392
280-115350-1 MSD	GW2018-PZ-16-POT INFLOW	Total/NA	Water	8270C	433392

LCMS

Prep Batch: 433265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-115350-1	GW2018-PZ-16-POT INFLOW	Total/NA	Water	3535	
280-115350-2	GW2018-PZ-16-POT INFLOW DUP	Total/NA	Water	3535	
280-115350-3	GW2018-PZ-16-POT EFFLUENT	Total/NA	Water	3535	
280-115350-4	GW2018-CLUBHOUSE EFFLUENT	Total/NA	Water	3535	
280-115350-5	GW2018-CLUBHOUSE INFLOW	Total/NA	Water	3535	
MB 280-433265/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-433265/2-A	Lab Control Sample	Total/NA	Water	3535	
280-115350-1 MS	GW2018-PZ-16-POT INFLOW	Total/NA	Water	3535	
280-115350-1 MSD	GW2018-PZ-16-POT INFLOW	Total/NA	Water	3535	

Analysis Batch: 433719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-115350-1	GW2018-PZ-16-POT INFLOW	Total/NA	Water	8321A	433265
280-115350-2	GW2018-PZ-16-POT INFLOW DUP	Total/NA	Water	8321A	433265
280-115350-3	GW2018-PZ-16-POT EFFLUENT	Total/NA	Water	8321A	433265
280-115350-4	GW2018-CLUBHOUSE EFFLUENT	Total/NA	Water	8321A	433265
280-115350-5	GW2018-CLUBHOUSE INFLOW	Total/NA	Water	8321A	433265
MB 280-433265/1-A	Method Blank	Total/NA	Water	8321A	433265
LCS 280-433265/2-A	Lab Control Sample	Total/NA	Water	8321A	433265
280-115350-1 MS	GW2018-PZ-16-POT INFLOW	Total/NA	Water	8321A	433265
280-115350-1 MSD	GW2018-PZ-16-POT INFLOW	Total/NA	Water	8321A	433265

Lab Chronicle

Client: Chemours Company FC, LLC The
Project/Site: BAR-Clubhouse Well Sampling 2018

TestAmerica Job ID: 280-115350-1

Client Sample ID: GW2018-PZ-16-POT INFLOW
Lab Sample ID: 280-115350-1
Date Collected: 10/08/18 14:30
Matrix: Water
Date Received: 10/11/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			961.3 mL	1 mL	433392	10/15/18 10:26	JZ	TAL DEN
Total/NA	Analysis	8270C		1			434017	10/18/18 23:12	DCK	TAL DEN
Total/NA	Prep	3535			955.7 mL	5 mL	433265	10/13/18 13:04	CBB	TAL DEN
Total/NA	Analysis	8321A		1			433719	10/15/18 18:44	AGCM	TAL DEN

Client Sample ID: GW2018-PZ-16-POT INFLOW DUP
Lab Sample ID: 280-115350-2
Date Collected: 10/08/18 14:30
Matrix: Water
Date Received: 10/10/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			937.4 mL	1 mL	433392	10/15/18 10:26	JZ	TAL DEN
Total/NA	Analysis	8270C		1			434017	10/19/18 00:25	DCK	TAL DEN
Total/NA	Prep	3535			944.4 mL	5 mL	433265	10/13/18 13:04	CBB	TAL DEN
Total/NA	Analysis	8321A		1			433719	10/15/18 20:20	AGCM	TAL DEN

Client Sample ID: GW2018-PZ-16-POT EFFLUENT
Lab Sample ID: 280-115350-3
Date Collected: 10/08/18 15:30
Matrix: Water
Date Received: 10/10/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			973.2 mL	1 mL	433392	10/15/18 10:26	JZ	TAL DEN
Total/NA	Analysis	8270C		1			434017	10/19/18 00:50	DCK	TAL DEN
Total/NA	Prep	3535			969.1 mL	5 mL	433265	10/13/18 13:04	CBB	TAL DEN
Total/NA	Analysis	8321A		1			433719	10/15/18 20:52	AGCM	TAL DEN

Client Sample ID: GW2018-CLUBHOUSE EFFLUENT
Lab Sample ID: 280-115350-4
Date Collected: 10/08/18 16:30
Matrix: Water
Date Received: 10/11/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			965.3 mL	1 mL	433392	10/15/18 10:26	JZ	TAL DEN
Total/NA	Analysis	8270C		1			434017	10/19/18 01:15	DCK	TAL DEN
Total/NA	Prep	3535			959.6 mL	5 mL	433265	10/13/18 13:04	CBB	TAL DEN
Total/NA	Analysis	8321A		1			433719	10/15/18 21:25	AGCM	TAL DEN

Client Sample ID: GW2018-CLUBHOUSE INFLOW
Lab Sample ID: 280-115350-5
Date Collected: 10/08/18 17:00
Matrix: Water
Date Received: 10/11/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			945.4 mL	1 mL	433392	10/15/18 10:26	JZ	TAL DEN
Total/NA	Analysis	8270C		1			434017	10/19/18 01:40	DCK	TAL DEN
Total/NA	Prep	3535			943.1 mL	5 mL	433265	10/13/18 13:04	CBB	TAL DEN

Lab Chronicle

Client: Chemours Company FC, LLC The
Project/Site: BAR-Clubhouse Well Sampling 2018

TestAmerica Job ID: 280-115350-1

Client Sample ID: GW2018-CLUBHOUSE INFLOW

Lab Sample ID: 280-115350-5

Date Collected: 10/08/18 17:00

Matrix: Water

Date Received: 10/11/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8321A		1			433719	10/15/18 21:57	AGCM	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: Chemours Company FC, LLC The
Project/Site: BAR-Clubhouse Well Sampling 2018

TestAmerica Job ID: 280-115350-1

Laboratory: TestAmerica Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999615430	08-31-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica Duluth SC 269

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: ERIC SCHMIDT	Lab PM: Johnston, Michelle A	Carrier Tracking No(s): FEDEX Cooler 3: 4546 7351 9603 Cooler 4: 4546 9351 9614	COC No: 280-79831-26119.1
Client Contact: Sharon Nordstrom	Phone: 920-621-3878	E-Mail: michelle.johnston@testamericainc.com		Page: Page 1 of 1
Company: Chemours Company FC, LLC The				Job #:
Address: c/o AECOM Sabre Building, Suite 300 4051 Ogletown Road	Due Date Requested: NORMAL			
City: Newark	TAT Requested (days):			
State, Zip: DE, 19713				
Phone: 302-781-5936(Tel)	PO #: LBIO-67048/77201000-WH06-507975			
Email: sharon.nordstrom@aecom.com	WO #:			
Project Name: BAR-Clubhouse Well Sampling 2018	Project #: 28003388 7419			
Site: BARKSDALE	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8321A_Explosive - (MOD) Explosives	8270C - (MOD) DNX spike list	Total Number of containers	Special Instructions/Note:
		Preservation Code:			N	N				
GW2018-P2-16-POT INFLOW	10/8/18	1430	GRAB	Water	N	N	X	X	2	COOLER 2
GW2018-P2-16-POT INFLOW DUP		1430		Water	N	N	X	X	2	COOLER 3
GW2018-P2-16-POT INFLOW MS		1430		Water	N	Y	X	X	2	COOLER 3
GW2018-P2-16-POT INFLOW MSD		1430		Water	N	Y	X	X	2	COOLER 4
GW2018-P2-16-POT EFFLUENT		1530		WATER	N	N	X	X	2	COOLER 4

280-115350 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/9/18 1200	AECOM		10-10-18 0900	TTDEL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.6, 4.6 IR 9 CF +0.7 ✓ for by GC 10/10/18

Ver: 08/04/2016

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Chain of Custody Record

TestAmerica Duluth SC 269

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Eric Schmidt	Lab PM: Johnston, Michelle A	Carrier Tracking No(s): FEDEX Cooler 3: 4546 9351 9603 Cooler 4: 4546 9351 9614	COC No: 280-79831-26119.1
Client Contact: Sharon Nordstrom	Phone: 920-621-3878	E-Mail: michelle.johnston@testamericainc.com		Page: Page 1 of 1
Company: Chemours Company FC, LLC The				Job #:
Address: c/o AECOM Sabre Building, Suite 300 4051 Ogletown Road	Due Date Requested: NORMAL			
City: Newark	TAT Requested (days):			
State, Zip: DE, 19713				
Phone: 302-781-5936(Tel)	PO #: LBIO-67048/77201000-WH06-507975			
Email: sharon.nordstrom@aecom.com	WO #:			
Project Name: BAR-Clubhouse Well Sampling 2018	Project #: 28003388 7419			
Site: BARRSDALE	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8321A_Explosive - (MOD) Explosives	8270C - (MOD) DNX spike list	Total Number of containers	Special Instructions/Note:
			Preservation Code:		N	N				
GW2018-PZ-16-POT INFLOW	10/8/18	1430 ~~1530~~	GRAB	Water	N	N	X	X	2	COOLER 2
GW2018-PZ-16-POT INFLOW DUP	↓	1430	↓	Water	N	N	X	X	2	COOLER 3
GW2018-PZ-16-POT INFLOW MS	↓	1430	↓	Water	N	Y	X	X	2	COOLER 3
GW2018-PZ-16-POT INFLOW MSD	↓	1430	↓	Water	N	Y	X	X	2	COOLER 4
GW2018-PZ-16-POT EFFLUENT	↓	1530	↓	WATER	N	N	X	X	2	COOLER 4

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	10/9/18 1200	AECOM	[signature]	10-10-18 0900	TAD
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 08/04/2016

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Chain of Custody Record

TestAmerica Duluth SC
269

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: ERIC SCHMIDT	Lab PM: Johnston, Michelle A	Carrier Tracking No(s): FEDEX COOLER 1 - 454693519739 COOLER 2 - 454693519740	COC No: 280-79831-26119.1
Client Contact: Sharon Nordstrom	Phone: 920-621-3878	E-Mail: michelle.johnston@testamericainc.com		Page: Page 1 of 1
Company: Chemours Company FC, LLC The				Job #:

Address: c/o AECOM Sabre Building, Suite 300 4051 Ogletown Road	Due Date Requested: NORMAL
City: Newark	TAT Requested (days):
State, Zip: DE, 19713	
Phone: 302-781-5936(Tel)	PO #: LBIO-67048/77201000-WH06-507975
Email: sharon.nordstrom@aecom.com	WO #:
Project Name: BAR-Clubhouse Well Sampling 2018	Project #: 28003388 7419
Site: BARKSDALE	SSOW#:

Analysis Requested

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Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8321A_Explosive - (MOD) Explosives	8270C - (MOD) DNX spike list	Total Number of containers	Special Instructions/Note:
			Preservation Code:		N	N				
GW2018-CLUBHOUSE EFFLUENT	10/9/18	1630	G	Water	N	N	X	X	4	COOLER 1
GW2018-CLUBHOUSE INFLOW	↓	1700	G	Water	N	N	X	X	4	½ COOLER 1, ½ COOLER 2
GW2018-				Water						
GW2018-				Water						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/9/18 1200	AECOM			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				10/11/18 0910	TA PEN

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.9, 2.7 TR 9, CF -0.2, 2.1

Ver: 08/04/2016 10/11/18

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Arvada, CO 80002
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Chain of Custody Record

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THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: ERIC SCHMIDT	Lab PM: Johnston, Michelle A	Carrier Tracking No(s): FEDEX Cooler 3: 4546 9351 9603 Cooler 4: 4546 9351 9614	COC No: 280-79831-26119.1
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Company: Chemours Company FC, LLC The				Job #:

Address: c/o AECOM Sabre Building, Suite 300 4051 Ogletown Road	Due Date Requested: NORMAL	Analysis Requested
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State, Zip: DE, 19713		
Phone: 302-781-5936(Tel)	PO #: LBIO-67048/77201000-WH06-507975	
Email: sharon.nordstrom@aecom.com	WO #:	
Project Name: BAR-Clubhouse Well Sampling 2018	Project #: 28003388 7419	
Site: BARRSDALE	SSOW#:	

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H - Ascorbic Acid	T - TSP Dodecahydrate
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			Preservation Code:							
GW2018-PZ-16-POT INFLOW	10/8/18	1430 ~~1530~~	GRAB	Water	N	N	X	X	4	COOLER 2
GW2018-PZ-16-POT INFLOW DUP		1430		Water	N	N	X	X	4	COOLER 3
GW2018-PZ-16-POT INFLOW MS		1430		Water	N	Y	X	X	2	COOLER 3
GW2018-PZ-16-POT INFLOW MSD		1430		Water	N	Y	X	X	2	COOLER 4
GW2018-PZ-16-POT EFFLUENT		1530		WATER	N	N	X	X	4	COOLER 4

Possible Hazard Identification
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Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	10/9/18 1200	AECOM			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 10/11/18 0910	Company TA Den

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 08/04/2016

Login Sample Receipt Checklist

Client: Chemours Company FC, LLC The

Job Number: 280-115350-1

Login Number: 115350
List Number: 1
Creator: Lujan, Jacob P

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	