Emerging Contaminant Sampling Initiative
EC Form 1: Initial Groundwater Sampling Results Evaluation

Site Name: Colesville Landfill Site ID: 704010

Date(s) Sampled: March 29, 2017 Class: 4

Number of Monitoring Wells: 7 (attach figure showing sampling locations)

Groundwater Screening

Chemical	Screening level (DWQC Recommended MCL)	Max. concentration detected	Check box if level exceeded
1,4-dioxane in groundwater	1 ug/L (ppb)	1.9 ug/l	☑
PFOA in groundwater	10 ng/L (ppt)	9.8 ng/L	☐
PFOS in groundwater	10 ng/L (ppt)	ND	☐
Awareness			
Other PFAS (**not** PFOA/PFOS)	Any one compound over 100 ng/L	4.1 ng/L	☐
Total PFAS (incl. PFOA/PFOS)	Total concentration over 500 ng/L	13.1 ng/L	☐

STOP here if no screening levels are exceeded. No further action required at this time.

Proximity to Water Supplies

Water supply type	Any wells within ½ mile of site?	Distance (ft)	Method(s) used to confirm water supply well locations
Public well(s)	No		GIS
Private well(s)	Yes	1980	GIS

If water supply wells are confirmed within ½ mile of site, discuss need for sampling these supply wells with DOH. Create a *EC Water Supply Sampling* project in UIS to track drinking water sampling efforts as directed.

Apparent Source(s)

Chemical	Past use or storage of chemical on-site?	Describe reasons for suspecting apparent source(s)
1,4-dioxane	Yes	1,4-dioxane may be in the waste mass
PFAS	no	

If an apparent on-site source is suspected, incorporate further work into ongoing remedial program if possible.

Further action required at this time? ☑ **Yes** ☐ **No**

Use the box at the bottom of page 2 to summarize site-specific next steps or provide rationale for not recommending further action if screening levels are exceeded.

Project Manager

Section Chief

Bureau Director

Date Signed

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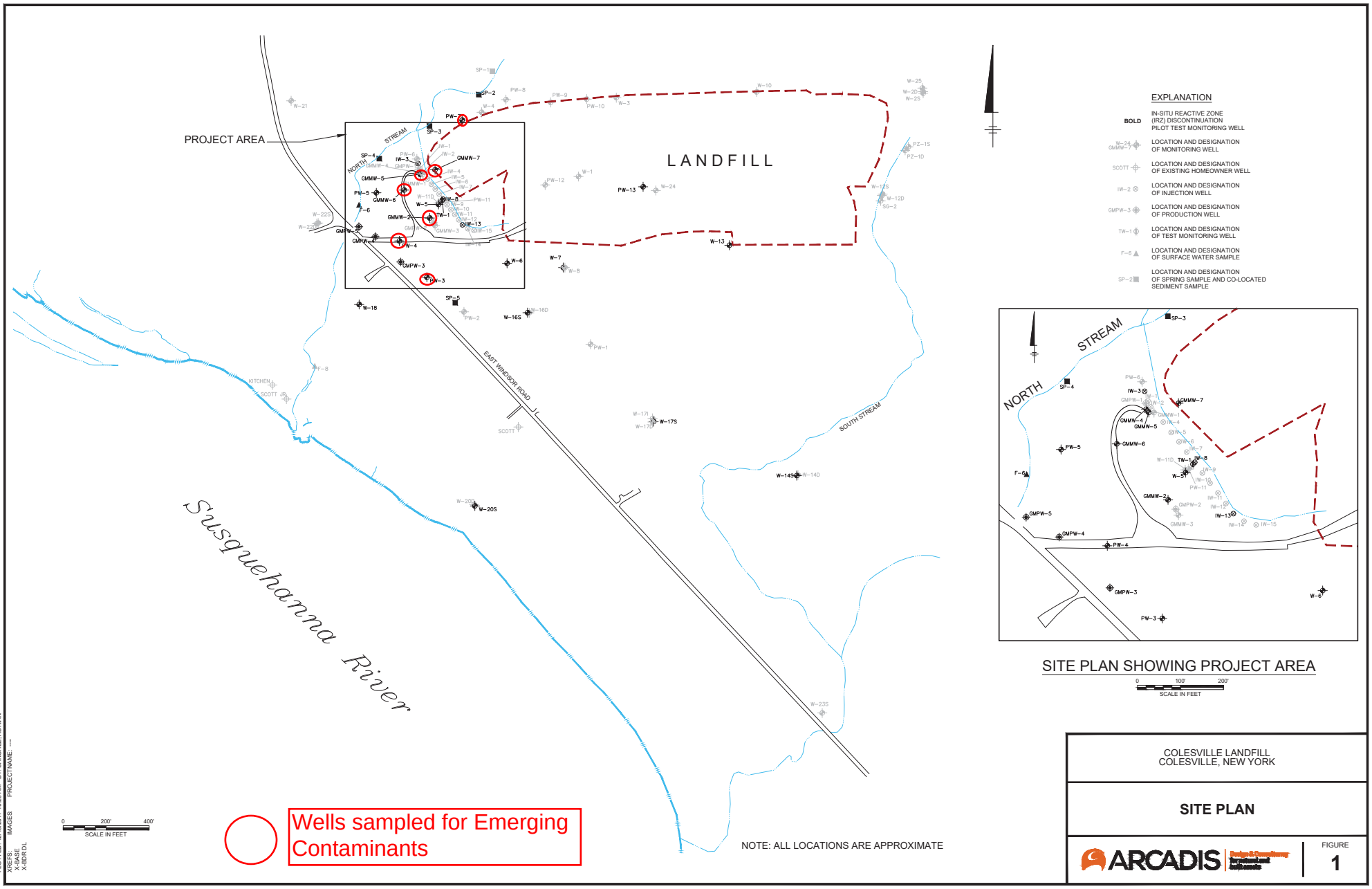
Checklist for Completing EC Form 1:

- ☑ Did you include a value in "Maximum Level Detected" even if the screening levels were not exceeded?
- ☑ Did you enter "ND" if nothing detected or "NA" if not analyzed?
- ☑ Did you check your units (ug/L vs ng/L)?
- ☑ Did you include PFOA & PFOS when totaling "Total PFAS"?
- ☑ Did you check yes or no for "Is further action required at this time?"
- ☑ Did you include "next steps", or provide justification for not recommending further action, if RMCLs are exceeded?
- ☑ Did you attach a figure with sampling locations?
- ☑ Did you attach emerging contaminant data? (not the full data package—only enough for all reviewers to double check that the form is filled out properly)
- ☑ Did you read through the internal DER Emerging Contaminant website for guidance on what to do if you have exceedances?
- ☑ Did you check with DOH-BEEI to help confirm the existence of public and private drinking water wells? DOH will handle communications with public water suppliers and local health departments.
- ☑ Is the data in EQuIS?
- ☑ Did you complete the UIS EC project current status per the internal DER Emerging Contaminant website?

This form is to be uploaded to DecDocs when completed. A copy of the signed form is to be sent to Caryn Bower (OGC) and Eric Hausamann (DER Bureau D/Sec D).

Site-specific next steps or rationale for not recommending further action

A project to sample the private well has been entered into UIS. The site will be continued to be monitored.



EXPLANATION

BOLD	IN-SITU REACTIVE ZONE (IRZ) DISCONTINUATION PILOT TEST MONITORING WELL
W-24 GMMW-7	LOCATION AND DESIGNATION OF MONITORING WELL
SCOTT	LOCATION AND DESIGNATION OF EXISTING HOMEOWNER WELL
IW-2	LOCATION AND DESIGNATION OF INJECTION WELL
GMPW-3	LOCATION AND DESIGNATION OF PRODUCTION WELL
TW-1	LOCATION AND DESIGNATION OF TEST MONITORING WELL
F-6	LOCATION AND DESIGNATION OF SURFACE WATER SAMPLE
SP-2	LOCATION AND DESIGNATION OF SPRING SAMPLE AND CO-LOCATED SEDIMENT SAMPLE

SITE PLAN SHOWING PROJECT AREA

0 100' 200'
SCALE IN FEET

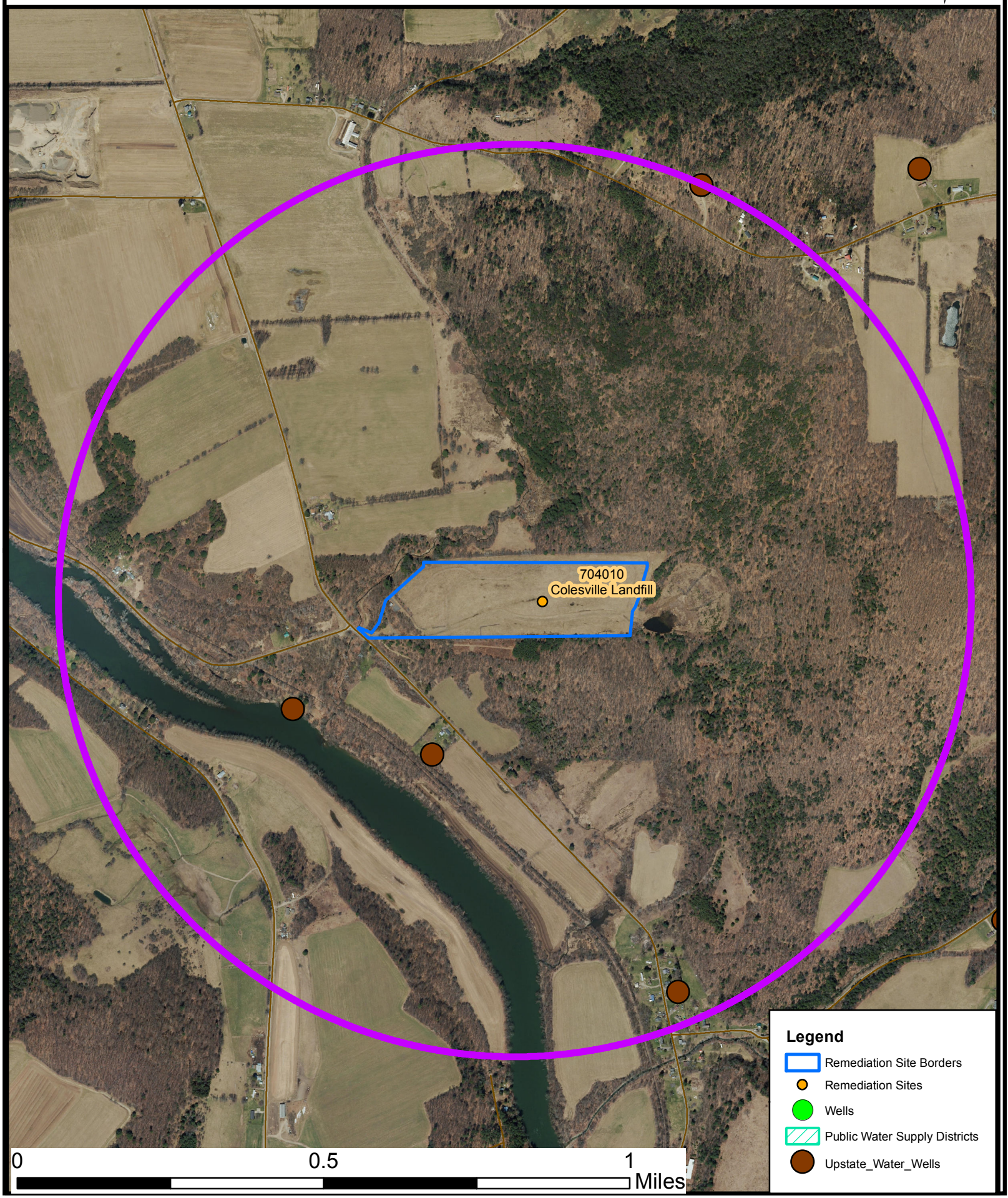
COLESVILLE LANDFILL
COLESVILLE, NEW YORK

SITE PLAN

ARCADIS

FIGURE
1

704010-Colesville Landfill
1/2 Mile Radius Search



Colesville Landfill

Statistic	Concentration	Units	Sample Source	Max non PFOS/PFOA compound
Maximum 1,4-Dioxane	1.9	ug/L	GMMW-06_03-29-2017	
Maximum PFOA	9.8	ng/L	GMMW-06_03-29-2017	
Maximum PFOS	0	ng/L		
Maximum PFAS compound aside from PFOS/PFOA	4.1	ng/L	GMMW-02_03-29-2017	Perfluoroheptanoic acid (PFHpA)
Total PFAS including PFOS and PFOA	13.1	ng/L	GMMW-06_03-29-2017	

PW-07	Well ID Date	PW-07_03-29-2017 3/29/2017			
Constituent	Units	Result	Lab Quals	Interpreted Quals	RDL
Perfluoroheptanoic acid (PFHpA)	ng/l	< 4.60	J	UB	4.60
Perfluorononanoic acid (PFNA)	ng/l	< 4.60	U	U	4.60
Perfluorooctanoic acid (PFOA)	ng/l	4.00			1.90
1,4-Dioxane (P-Dioxane)	ug/l	0.04			0.04

PW-07				
Statistic	Result	Units	Sample Source	Max non PFOS/PFOA compound
Maximum 1,4-Dioxane	0.04	ug/L	PW-07_03-29-2017	
Maximum PFOA	4	ng/L	PW-07_03-29-2017	
Maximum PFOS	0	ng/L	PW-07_03-29-2017	
Maximum PFAS compound aside from PFOS/PFOA	0	ng/L	PW-07_03-29-2017	Perfluoroheptanoic acid (PFHpA)
Total PFAS including PFOS and PFOA	4	ng/L	PW-07_03-29-2017	

PW-04	Well ID Date	PW-04_03-29-2017 3/29/2017			
Constituent	Units	Result	Lab Quals	Interpreted Quals	RDL
Perfluoroheptanoic acid (PFHpA)	ng/l	< 4.60	J	UB	4.60
Perfluorononanoic acid (PFNA)	ng/l	< 4.60	U	U	4.60
Perfluorooctanoic acid (PFOA)	ng/l	< 1.90	J	UB	1.90
1,4-Dioxane (P-Dioxane)	ug/l	0.12			0.04

PW-04				
Statistic	Result	Units	Sample Source	Max non PFOS/PFOA compound
Maximum 1,4-Dioxane	0.12	ug/L	PW-04_03-29-2017	
Maximum PFOA	0	ng/L	PW-04_03-29-2017	
Maximum PFOS	0	ng/L	PW-04_03-29-2017	
Maximum PFAS compound aside from PFOS/PFOA	0	ng/L	PW-04_03-29-2017	Perfluoroheptanoic acid (PFHpA)
Total PFAS including PFOS and PFOA	0	ng/L	PW-04_03-29-2017	

PW-03	Well ID Date	PW-03_03-29-2017 3/29/2017				PW-03-DUP_03-29-2017 3/29/2017			
Constituent	Units	Result	Lab Quals	Interpreted Quals	RDL	Result	Lab Quals	Interpreted Quals	RDL
Perfluoroheptanoic acid (PFHpA)	ng/l	< 4.50	J	UB	4.50	< 4.80	J	UB	4.80
Perfluorononanoic acid (PFNA)	ng/l	< 4.50	U	U	4.50	< 4.80	J	UB	4.80
Perfluorooctanoic acid (PFOA)	ng/l	< 1.80		UB	1.80	< 1.90		UB	1.90
1,4-Dioxane (P-Dioxane)	ug/l	0.25			0.04	0.28			0.04

PW-03				
Statistic	Result	Units	Sample Source	Max non PFOS/PFOA compound
Maximum 1,4-Dioxane	0.28	ug/L	PW-03-DUP_03-29-2017	
Maximum PFOA	0	ng/L	PW-03_03-29-2017	
Maximum PFOS	0	ng/L	PW-03_03-29-2017	
Maximum PFAS compound aside from PFOS/PFOA	0	ng/L	PW-03_03-29-2017	Perfluoroheptanoic acid (PFHpA)
Total PFAS including PFOS and PFOA	0	ng/L	PW-03_03-29-2017	

GMMW-07	Well ID Date	GMMW-07_03-29-2017 3/29/2017			
Constituent	Units	Result	Lab Quals	Interpreted Quals	RDL
Perfluoroheptanoic acid (PFHpA)	ng/l	< 4.60	U	U	4.60
Perfluorononanoic acid (PFNA)	ng/l	< 4.60	U	U	4.60
Perfluorooctanoic acid (PFOA)	ng/l	< 1.90	J	UB	1.90
1,4-Dioxane (P-Dioxane)	ug/l	< 0.04	U	U	0.04

GMMW-07				
Statistic	Result	Units	Sample Source	Max non PFOS/PFOA compound
Maximum 1,4-Dioxane	0	ug/L	GMMW-07_03-29-2017	
Maximum PFOA	0	ng/L	GMMW-07_03-29-2017	
Maximum PFOS	0	ng/L	GMMW-07_03-29-2017	
Maximum PFAS compound aside from PFOS/PFOA	0	ng/L	GMMW-07_03-29-2017	Perfluoroheptanoic acid (PFHpA)
Total PFAS including PFOS and PFOA	0	ng/L	GMMW-07_03-29-2017	

GMMW-06	Well ID Date	GMMW-06_03-29-2017 3/29/2017			
Constituent	Units	Result	Lab Quals	Interpreted Quals	RDL
Perfluoroheptanoic acid (PFHpA)	ng/l	3.30	J	J	5.00
Perfluorononanoic acid (PFNA)	ng/l	< 5.00	J	UB	5.00
Perfluorooctanoic acid (PFOA)	ng/l	9.80			2.00
1,4-Dioxane (P-Dioxane)	ug/l	1.90			0.04

GMMW-06				
Statistic	Result	Units	Sample Source	Max non PFOS/PFOA compound
Maximum 1,4-Dioxane	1.9	ug/L	GMMW-06_03-29-2017	
Maximum PFOA	9.8	ng/L	GMMW-06_03-29-2017	
Maximum PFOS	0	ng/L	GMMW-06_03-29-2017	
Maximum PFAS compound aside from PFOS/PFOA	3.3	ng/L	GMMW-06_03-29-2017	Perfluoroheptanoic acid (PFHpA)
Total PFAS including PFOS and PFOA	13.1	ng/L	GMMW-06_03-29-2017	

GMMW-05	Well ID Date	GMMW-05_03-29-2017 3/29/2017			
Constituent	Units	Result	Lab Quals	Interpreted Quals	RDL
Perfluoroheptanoic acid (PFHpA)	ng/l	< 4.50	J	UB	4.50
Perfluorononanoic acid (PFNA)	ng/l	< 4.50	U	U	4.50
Perfluorooctanoic acid (PFOA)	ng/l	< 1.80		UB	1.80
1,4-Dioxane (P-Dioxane)	ug/l	0.34			0.04

GMMW-05				
Statistic	Result	Units	Sample Source	Max non PFOS/PFOA compound
Maximum 1,4-Dioxane	0.34	ug/L	GMMW-05_03-29-2017	
Maximum PFOA	0	ng/L	GMMW-05_03-29-2017	
Maximum PFOS	0	ng/L	GMMW-05_03-29-2017	
Maximum PFAS compound aside from PFOS/PFOA	0	ng/L	GMMW-05_03-29-2017	Perfluoroheptanoic acid (PFHpA)
Total PFAS including PFOS and PFOA	0	ng/L	GMMW-05_03-29-2017	

GMMW-02	Well ID Date	GMMW-02_03-29-2017 3/29/2017			
Constituent	Units	Result	Lab Quals	Interpreted Quals	RDL
Perfluoroheptanoic acid (PFHpA)	ng/l	4.10	J	J	4.60
Perfluorononanoic acid (PFNA)	ng/l	< 4.60	U	U	4.60
Perfluorooctanoic acid (PFOA)	ng/l	7.60			1.90
1,4-Dioxane (P-Dioxane)	ug/l	0.90			0.04

GMMW-02				
Statistic	Result	Units	Sample Source	Max non PFOS/PFOA compound
Maximum 1,4-Dioxane	0.9	ug/L	GMMW-02_03-29-2017	
Maximum PFOA	7.6	ng/L	GMMW-02_03-29-2017	
Maximum PFOS	0	ng/L	GMMW-02_03-29-2017	
Maximum PFAS compound aside from PFOS/PFOA	4.1	ng/L	GMMW-02_03-29-2017	Perfluoroheptanoic acid (PFHpA)
Total PFAS including PFOS and PFOA	11.7	ng/L	GMMW-02_03-29-2017	