

Emerging Contaminant Sampling Initiative

EC Form 1: Initial Groundwater Sampling Results Evaluation



Site Name: Railroad Dry Cleaners & Hercules Machine Sales Company

Site ID: 130066 130083

Date(s) Sampled: 9/11/2018

Class: 2

Number of Monitoring Wells: 4 (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)	ND	☐
PFOA in groundwater	10 ng/L (ppt)	51	☒
PFOS in groundwater	10 ng/L (ppt)	530	☒
Awareness			
Other PFAS (not PFOA/PFOS)	Any one compound over 100 ng/L	71	☐
Total PFAS (incl. PFOA/PFOS)	Total concentration over 500 ng/L	579	☒

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)	N/A		
Private well(s)	N/A		

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	No	
PFAS	Yes	Dry Cleaner, Potential use of Scotch Guard

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.

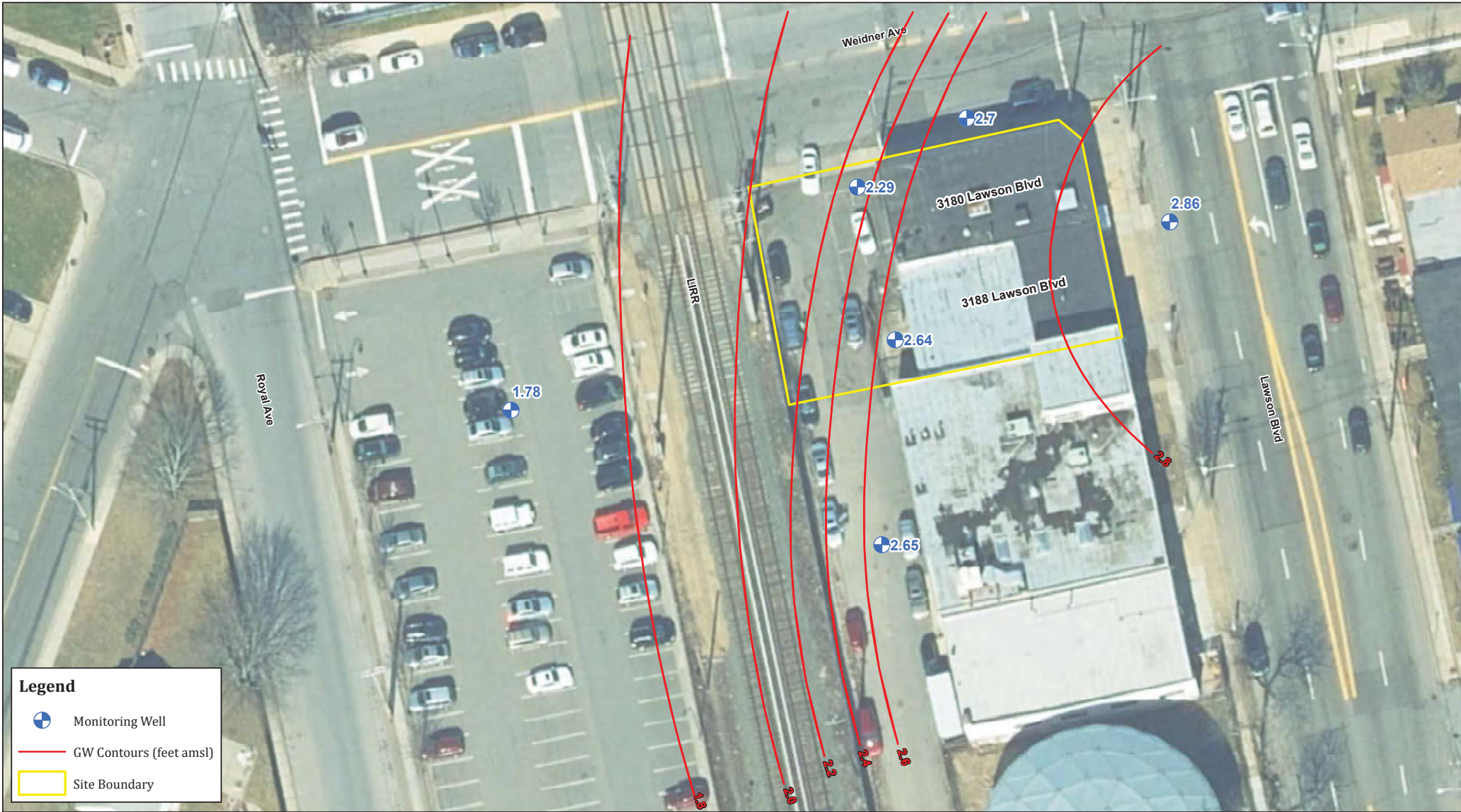

Project Manager

Bureau Director


Section Chief
8/14/19
Date Signed

Groundwater Flow is to the West. MW-1, MW-8A, MW-15A, and MW-17B were sampled for EC.





Legend

- Monitoring Well
- GW Contours (feet amsl)
- Site Boundary



Notes:
 1. All groundwater elevations are in feet above mean sea level (ft amsl).
 2. GW - groundwater

Groundwater Contour Map

1 inch = 30 feet

0 30 60 Feet

Former Hercules Machine Shop
 and Railroad Drycleaners
 Oceanside, NY
 Figure 1-3



Table 3-3
Former Hercules Machine Sales and Railroad Dry Cleaners
Site Nos. 130083 and 130066
Summary of PFAS and 1,4-Dioxane Groundwater Sampling Results

Sample ID Location ID Sample Date		MW-1-09112018 MW-1 9/11/2018		MW-1-10162018 MW-1 10/16/2018		MW-2-09112018 MW-2 9/11/2018		MW-8A-09112018 MW-8A 9/11/2018		MW-8A-10162018 MW-8A 10/16/2018		DUP-1-09112018 MW-8A 9/11/2018		DUP-1-10162018 MW-8A 9/11/2018		MW-9D-09112018 MW-9D 9/11/2018	
Parameter ID	EPA Health Advisory Level (ug/l)	Concentration (ug/l)	Qualifier Flag	Concentration (ug/l)	Qualifier Flag	Concentration (ug/l)	Qualifier Flag	Concentration (ug/l)	Qualifier Flag	Concentration (ug/l)	Qualifier Flag	Concentration (ug/l)	Qualifier Flag	Concentration (ug/l)	Qualifier Flag	Concentration (ug/l)	Qualifier Flag
Semi-volatile Organic Compounds (SVOCs)																	
1,4-Dioxane	0.35	NA		ND	U	NA		NA		ND	U	NA		ND	U	NA	
Per- and Polyfluoroalkyl Substances (PFAS)																	
4:2 fluorotelomersulfonate	NS	ND	U	NA		NA		ND	U	NA		NA		NA		NA	
6:2 fluorotelomersulfonate	NS	ND	U	NA		NA		ND	U	NA		NA		NA		NA	
8:2 fluorotelomersulfonate	NS	ND	U	NA		NA		ND	U	NA		NA		NA		NA	
NMeFOSAA	NS	ND	U	NA		NA		ND	U	NA		NA		NA		NA	
NMeFOSAA	NS	ND	U	NA		NA		ND	U	NA		NA		NA		NA	
Perfluorobutanesulfonate	NS	0.0014	J	NA		NA		0.0045		NA		NA		NA		NA	
Perfluorobutanoic acid	NS	ND	U	NA		NA		0.0082	J	NA		NA		NA		NA	
Perfluorodecanesulfonate	NS	ND	U	NA		NA		ND	U	NA		NA		NA		NA	
Perfluorodecanoic acid	NS	ND	U	NA		NA		0.0077		NA		NA		NA		NA	
Perfluorododecanoic acid	NS	ND	U	NA		NA		ND	U	NA		NA		NA		NA	
Perfluoroheptanesulfonate	NS	ND	U	NA		NA		0.0043	J	NA		NA		NA		NA	
Perfluoroheptanoic acid	NS	0.0022	J	NA		NA		0.013		NA		NA		NA		NA	
Perfluorohexanesulfonate	NS	ND	U	NA		NA		0.014		NA		NA		NA		NA	
Perfluorohexanoic acid	NS	0.0057		NA		NA		0.014		NA		NA		NA		NA	
Perfluorononanesulfonate	NS	ND	U	NA		NA		ND	U	NA		NA		NA		NA	
Perfluorononanoic acid	NS	0.0014	J	NA		NA		0.011		NA		NA		NA		NA	
Perfluorooctanesulfonamide	NS	ND	U	NA		NA		ND	U	NA		NA		NA		NA	
Perfluoro-octanesulfonate (PFOS)	NS	0.0037	J	NA		NA		0.53		NA		NA		NA		NA	
Perfluorooctanoic acid (PFOA)	NS	0.0038		NA		NA		0.049		NA		NA		NA		NA	
Perfluoropentanesulfonate	NS	ND	U	NA		NA		0.0032	J	NA		NA		NA		NA	
Perfluoropentanoic acid	NS	ND	U	NA		NA		0.012	J	NA		NA		NA		NA	
Perfluorotetradecanoic acid	NS	ND	U	NA		NA		ND	U	NA		NA		NA		NA	
Perfluorotridecanoic acid	NS	ND	U	NA		NA		ND	U	NA		NA		NA		NA	
Perfluoroundecanoic acid	NS	ND	U	NA		NA		ND	U	NA		NA		NA		NA	
PFOS + PFOA	0.07	0.0075	J	NA		NA		0.579		NA		NA		NA		NA	

Key:
J - Detected above the method detection limit, but below the reporting limit; value is estimated
U - Analyte not detected at or above the method detection limit
NA - Not analyzed
ND - Not detected or not reportable
NS - No standard exists
ft bgs - Feet below ground surface
ID - Identifier
EPA - Environmental Protection Agency

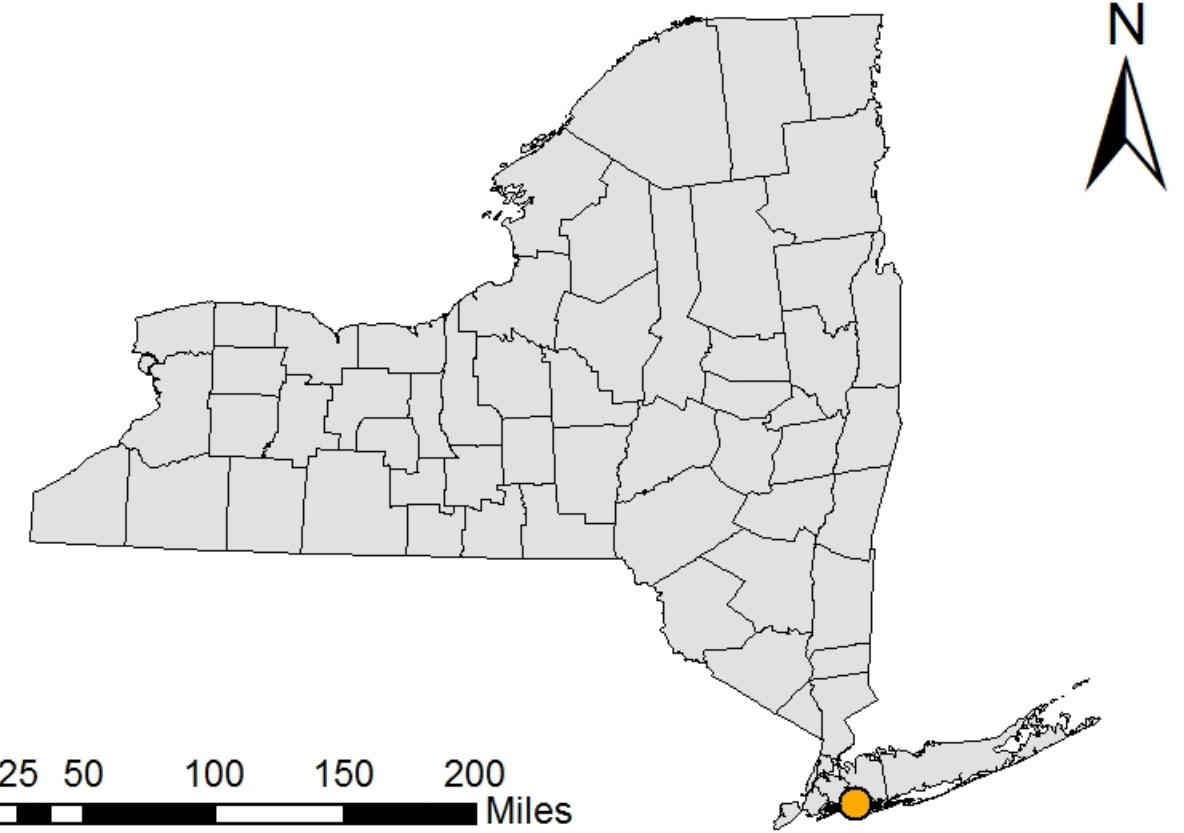
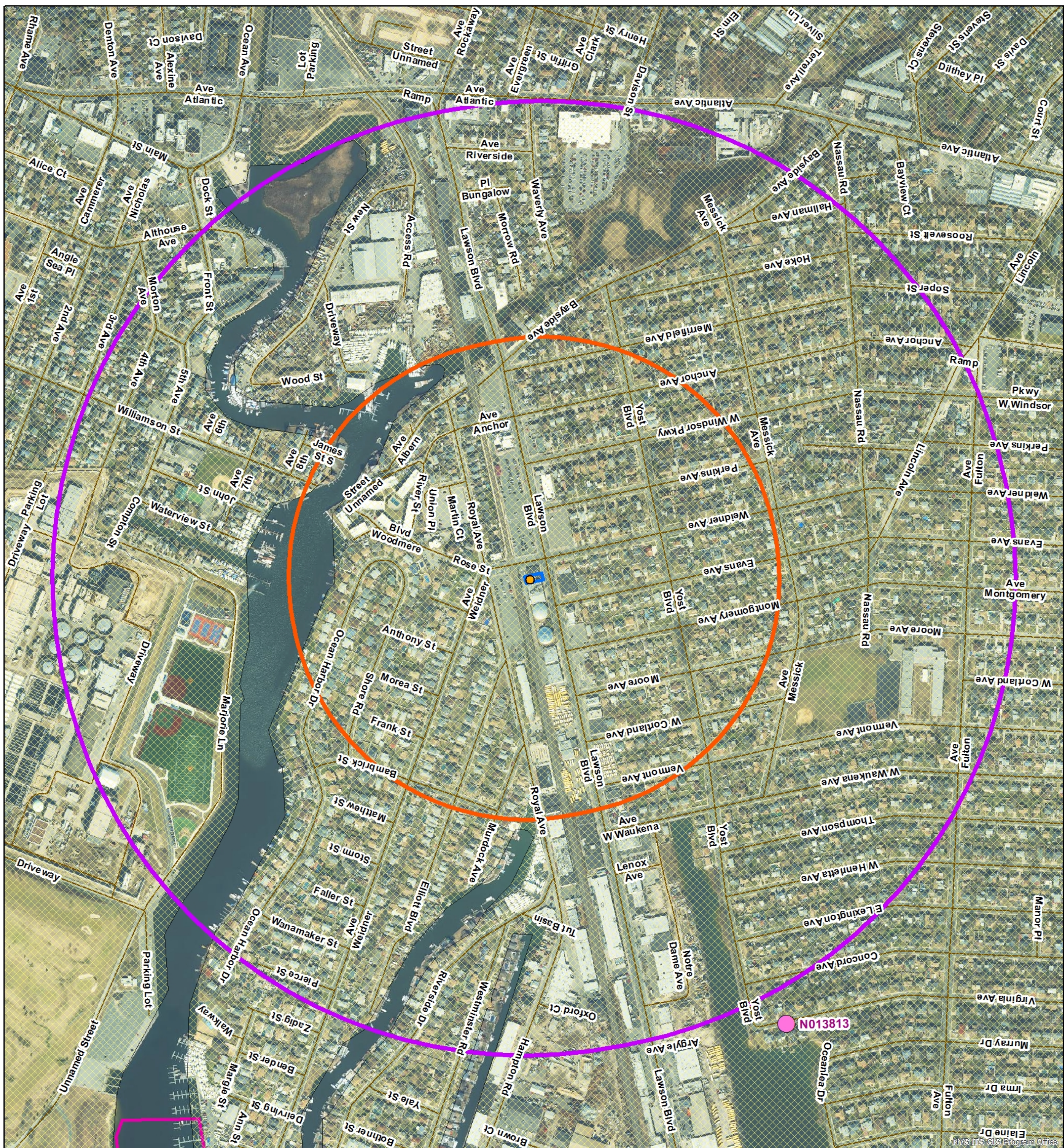
Notes:
1. Results shaded in light blue fill have exceeded EPA Health Advisory Levels.
2. Bolded results have detections.
3. All values shown in micrograms per liter (ug/l).

Table 3-3
Former Hercules Machine Sales and Railroad Dry Cleaners
Site Nos. 130083 and 130066
Summary of PFAS and 1,4-Dioxane Groundwater Sampling Results

Sample ID Location ID Sample Date		MW-10B-09112018 MW-10B 9/11/2018		MW-12C-09112018 MW-12C 6/18/2018		MW-14C-09122018 MW-14C 9/12/2018		MW-15A-09112018 MW-15A 9/11/2018		MW-15A-10162018 MW-15A 10/16/2018		MW-17B-09112018 MW-17B 9/11/2018		MW-17B-10162018 MW-17B 10/16/2018		MW-19C-09122018 MW-19C 9/12/2018	
Parameter ID	EPA Health Advisory Level (ug/l)	Concentration (ug/l)	Qualifier Flag	Concentration (ug/l)	Qualifier Flag	Concentration (ug/l)	Qualifier Flag	Concentration (ug/l)	Qualifier Flag	Concentration (ug/l)	Qualifier Flag	Concentration (ug/l)	Qualifier Flag	Concentration (ug/l)	Qualifier Flag	Concentration (ug/l)	Qualifier Flag
Semi-volatile Organic Compounds (SVOCs)																	
1,4-Dioxane	0.35	NA		NA		NA		NA		ND	U	NA		ND	U	NA	
Per- and Polyfluoroalkyl Substances (PFAS)																	
4:2 fluorotelomersulfonate	NS	NA		NA		NA		ND	U	NA		ND	U	NA		NA	
6:2 fluorotelomersulfonate	NS	NA		NA		NA		0.0059		NA		ND	U	NA		NA	
8:2 fluorotelomersulfonate	NS	NA		NA		NA		ND	U	NA		ND	U	NA		NA	
NMeFOSAA	NS	NA		NA		NA		ND	U	NA		ND	U	NA		NA	
NMeFOSA	NS	NA		NA		NA		ND	U	NA		ND	U	NA		NA	
Perfluorobutanesulfonate	NS	NA		NA		NA		0.015		NA		0.0073		NA		NA	
Perfluorobutanoic acid	NS	NA		NA		NA		0.018		NA		0.0077	J	NA		NA	
Perfluorodecanesulfonate	NS	NA		NA		NA		ND	U	NA		ND	U	NA		NA	
Perfluorodecanoic acid	NS	NA		NA		NA		0.0025	J	NA		ND	U	NA		NA	
Perfluorododecanoic acid	NS	NA		NA		NA		ND	U	NA		ND	U	NA		NA	
Perfluoroheptanesulfonate	NS	NA		NA		NA		0.0058		NA		0.0012	J	NA		NA	
Perfluoroheptanoic acid	NS	NA		NA		NA		0.012		NA		0.01		NA		NA	
Perfluorohexanesulfonate	NS	NA		NA		NA		0.071		NA		0.039		NA		NA	
Perfluorohexanoic acid	NS	NA		NA		NA		0.061		NA		0.015		NA		NA	
Perfluorononanesulfonate	NS	NA		NA		NA		ND	U	NA		ND	U	NA		NA	
Perfluorononanoic acid	NS	NA		NA		NA		0.0043		NA		0.0039	J	NA		NA	
Perfluorooctanesulfonamide	NS	NA		NA		NA		ND	U	NA		ND	U	NA		NA	
Perfluoro-octanesulfonate (PFOS)	NS	NA		NA		NA		0.22		NA		0.098		NA		NA	
Perfluorooctanoic acid (PFOA)	NS	NA		NA		NA		0.051		NA		0.044		NA		NA	
Perfluoropentanesulfonate	NS	NA		NA		NA		0.011		NA		0.0023	J	NA		NA	
Perfluoropentanoic acid	NS	NA		NA		NA		0.021		NA		0.013	J	NA		NA	
Perfluorotetradecanoic acid	NS	NA		NA		NA		ND	U	NA		ND	U	NA		NA	
Perfluorotridecanoic acid	NS	NA		NA		NA		ND	U	NA		ND	U	NA		NA	
Perfluoroundecanoic acid	NS	NA		NA		NA		ND	U	NA		ND	U	NA		NA	
PFOS + PFOA	0.07	NA		NA		NA		0.271		NA		0.142		NA		NA	

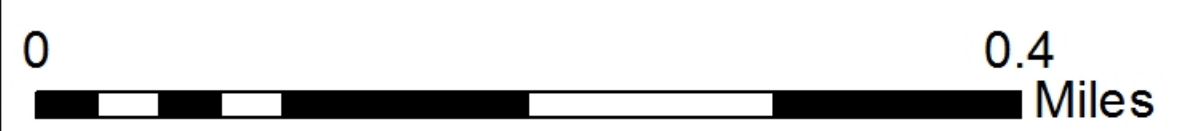
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Legend

- Remediation Sites
- Public Wells
- Potential Private Wells
- Public Water Supply District
- Private Water Source Tax Parcel
- 1/4 Mile Buffer
- Site Border
- 1/2 Mile Buffer



Region 1 Nassau County
Town of Hempstead

Hercules Machine Sales Company, #130083
Water Supply Map

Emerging Contaminant Sampling Initiative

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Not for Public Release



Department of
Environmental
Conservation