

CICHETTI ENGINEERING PLLC

PO BOX 195

GERMANTOWN, NY 12526

June 14, 2025

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New York State Department of Environmental Conservation
Remedial Bureau A
625 Broadway – 12th Floor
Albany, NY 12233-7015
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Re: 145 Wolcott Street
Brooklyn, NY
Long Island Well Permit Work Plan for Dewatering Activities

Dear Stephen,

As per your request, we've prepared the following Work Plan to evaluate potential migration of contaminants during the dewatering system operation. The intent is to monitor the groundwater quality in monitoring wells to provide the NYSDEC with data on the contaminant's potential migration due to the dewatering operations.

Monitoring Wells:

To provide a comprehensive overview of the dewatering impacts on the groundwater table we plan to monitor four monitoring wells just outside the property line in all four corners of the site (MW-1 to MW-4) per the attached plan.

New Monitoring Well Construction:

The installation of all monitoring wells shall conform with the construction details and development procedures outlined in the attached DER guidance document titled, "Monitoring "Guidelines on Installation of Overburden Wells (Monitoring Wells) for Environmental Investigations."

1. The new monitoring well will be installed from street elevation (Approx. 9 to 12) to bottom of well elevation (Approximately El. -15).
2. A direct casing push or duplex rotary drilling method will be utilized to create the borehole.
3. Once the tip elevation is reached 2' of 2" PVC .020 Slot Screen and solid PVC riser will be inserted into the hole and surrounded with #1 sand.
4. A bentonite seal will be placed immediately above the sand filter pack. The bentonite seal must be composed of commercially available pellets, granules, or chips and must be a minimum of 2-ft measured immediately after placement, without allowance for swelling. The annular space above the bentonite seal must be sealed from surface infiltration with a cement bentonite mixture.
5. Casing will be extracted and a cast iron monitoring well cap will be cemented into the sidewalk.
6. Groundwater monitoring wells must be developed in accordance with ASTM D5521. Groundwater monitoring wells shall be developed until the monitoring

well has reached equilibrium and turbidity of the purge water is measured to 50 nephelometric turbidity units (NTUs) or less.

Please see attached dewatering plan with approximate location of proposed monitoring well locations (actual locations may change based on site logistics and access.)

Groundwater Sampling:

Groundwater samples from the four (4) monitoring wells and dewatering effluent will be collected and sent to York Analytical Laboratory (ELAP Certified Lab) for analytical per NYS Region 2 Dewatering criteria

Baseline Sampling:

Prior to the start of dewatering, we will conduct baseline groundwater sampling of each monitoring well A total of four (4) water samples will be collected and analyzed.

Dewatering Sampling and Reporting:

After the Dewatering system has been activated, groundwater sampling will occur as per the following schedule:

- One week post start up
- Monthly thereafter until dewatering is completed

Sampling will occur in the four monitoring wells and the dewatering system effluent. A total of five (5) samples will be collected for each milestone and analyzed per NYS Region 2 Dewatering criteria.

Sample results will be provided to the Department upon receipt. Reports will be submitted to:

Stephen M. Scharf

Project Engineer, Division of Environmental Remediation

stephen.scharf@dec.ny.gov

Sincerely,



Matthew Cichetti, PE
Cichetti Engineering
Principal



BROOKLYN, NY

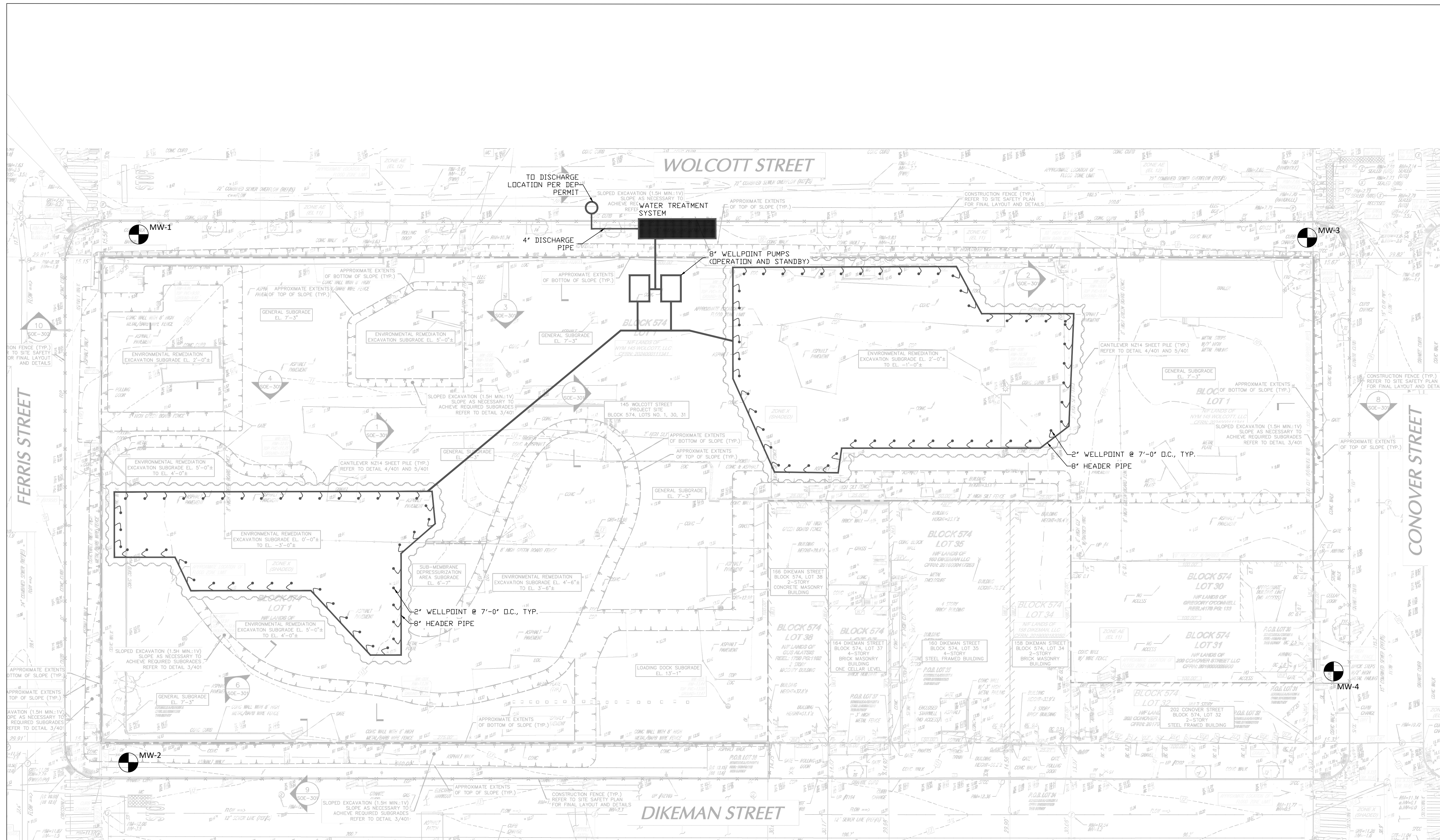
SCALE: AS NOTED

<u>LIST OF DRAWINGS</u>	
<u>DWG. #</u>	<u>DWG. TITLE</u>
DEW-100.00	DEWATERING FOR ENVIRONMENTAL REMEDIATION
DEW-101.00	WATER TREATMENT SCHEMATIC

DRAWING TITLE:

DEWATERING FOR
ENVIRONMENTAL REMEDIATION

SEAL	Date	02/01/2025
	Drawn By:	RLY
	DWG. No:	DEW - 100.00
	SHEET No:	1 - OF - 2



LEGEND

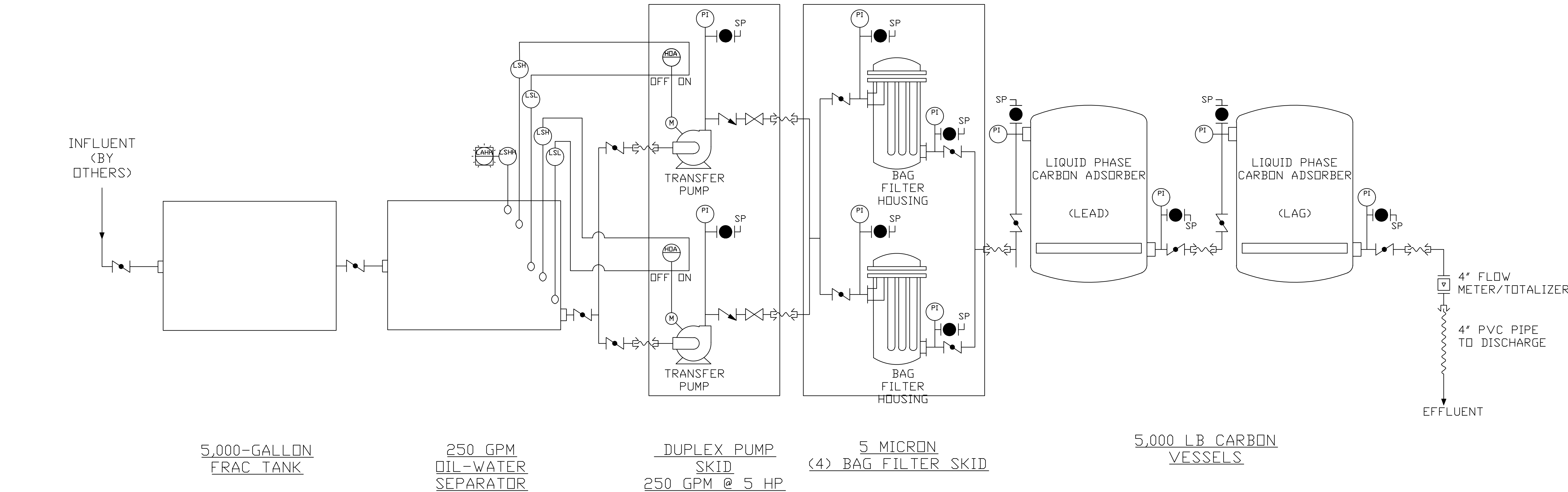
MONITORING WELL ----- MW-#

1 PLAN VIEW - DEWATERING FOR ENVIRONMENTAL REMEDIATION
100 SCALE: N.T.S.

CICHETTI
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PO BOX 195
GERMANTOWN, NY 12526
PHONE: (845)598-5018

145 WOLCOTT STREET
BROOKLYN, NY



NOTES:

1. MAXIMUM FLOWRATE = 250 GPM
2. SYSTEM FOOTPRINT APPROX. 10'X75'
3. NOT ALL VALVES, INSTRUMENTATION AND PIPING, ETC. SHOWN FOR CLARITY

PIPING & INSTRUMENT DIAGRAM
FOR
250 GPM WATER TREATMENT SYSTEM

No: Revision: Date:

SCALE: AS NOTED

LIST OF DRAWINGS

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DEW-100.00	DEWATERING FOR ENVIRONMENTAL REMEDIATION
DEW-101.00	WATER TREATMENT SCHEMATIC

DRAWING TITLE:

WATER TREATMENT SCHEMATIC

SEAL	Date
	02/01/2025
	Drawn By:
	RLY
DWG. No:	
DEW - 101.00	
SHEET No: 2 - OF - 2	

NYSDEC Region 2 - Dewatering Project Sampling Information (Revised - 03/05/24)

PROJECT NAME / ID #:

#	PARAMETER	TYPE	EPA METHOD	DETECTION
1	pH	Grab	150.2	
2	Temperature	<i>in situ</i> (°F)	After Pumping	
3	Oil & Grease	Grab	1664A or 1664B	
4	Total Suspended Solids	Grab	SM 2540 D-2015	
5	Volatile Organic Compounds (VOC)	Grab	624.1	EPA MDL
6	Semi VOCs/ Base Neutral Compounds	Grab	625.1	EPA MDL
7	Nitrate/Nitrite	Grab	300 or 353.2	EPA MDL
8	Metals—Total and Dissolved (13 Priority Pollutant non-Hg Metals)	Grab	200.7 Rev 4.4 – Preferred Method 200.8	EPA MDL
	Mercury- Total and Dissolved	Grab	1669 – Sampling Method 1631 – Analysis	EPA MDL
9	PCBs & Pesticides	Grab	608.3	EPA MDL

NOTES:

- Well/Wellpoint samples are to be collected after development of the well by a licensed well driller duly registered in accordance with Section 15-1525 of the Environmental Conservation Law of the State of New York.
- Water samples collected from a test pit will only be accepted from projects where all dewatering is taking place via sumping from trenches.
- A minimum of two (2) raw samples must be collected in accordance with standards specified in 40 CFR Part 136.
- Samples should be collected from a minimum of two (2) representative locations within the vicinity of the proposed excavation area (i.e., collected from discrete, non-contiguous locations). For projects where there is a known source of contamination within the radius of influence, one sample must be taken downgradient of that contamination source. Location, depth [of monitoring well/wellpoint or test pit], and date of collection must be provided for each sample. Questions regarding representative sampling locations should be directed to dow.r2@dec.ny.gov.
- Conducting a second sampling round/event on a different day is recommended, when possible, to obtain representative sampling data.
- If multiple sampling rounds/events are conducted, all sampling data must be provided and incorporated into the sampling summary report.
- The Department may require sampling from additional locations depending on the size of the proposed project area.
- Without exception, monitoring must be conducted according to test procedures approved under 40 CFR Part 136. When more than one test procedure is approved under 40 CFR Part 136 for the analysis of a pollutant or pollutant parameter, the test procedure must be sufficiently sensitive as defined at 40 CFR 122.21(e)(3) and 122.44(i)(1)(iv). The table above reflects approved EPA Methods (as of 03/05/24) that are known to be sufficiently sensitive to meet prescribed effluent limits. If an unapproved method or method that is not sufficiently sensitive is used, the Department will not accept the results.
- The Department may require testing for additional parameters if the proposed dewatering site is suspected of being contaminated with parameters not identified above.
- All analyses must be performed by a laboratory certified by the [NYS Department of Health Environmental Laboratory Approval Program \(ELAP\)](#).
- The Method Detection Limit (MDL) is the level at which the analytical procedure referenced is capable of determining with a 99% probability that the substance is present. This value is determined in distilled water with no interfering substances present.
- When collecting samples, temporary discharge must be contained on-site or disposed of off-site and must not cause or contribute to a contravention of surface or ground water quality standards.

SUBMISSION OF DATA AND REPORTING: Submit sampling data and analytical results as follows:

- **Raw Data** - all information including complete sampling data, test results and lab records (i.e., data sheets and chain(s) of custody).
- **Sampling Summary Report** with a summary table that presents groundwater sample results for ALL detected parameters (i.e., results that are not non-detect (ND)) with comparison to the appropriate water quality standards contained in 6 NYCRR Part 703 for the receiving water where pumped groundwater will be discharged to (surface waters OR groundwater).
 - The summary table should highlight or clearly identify all concentrations exceeding the applicable water quality standard.
 - If multiple sampling rounds/events are conducted, all sampling data must be provided and incorporated into the summary report.