



February 4, 2026

Ms. Anna Calderon  
New York State Department of Environmental Conservation  
Division of Environmental Remediation, Remedial Bureau E, Remedial Section D  
625 Broadway, 12<sup>th</sup> Floor  
Albany, NY 12233-7017

Subject: NYSDEC Site No. 340012, Brewster Village Well Field, Final 2024 Periodic Review Report

Dear Ms. Calderon:

Camp Dresser McKee & Smith (CDM Smith Inc.) is pleased to submit this *Final 2024 Periodic Review Report* (February 2026) for NYSDEC Site No. 340012 Brewster Village Well Field Site in Brewster, New York. A signed and stamped Certification Form is included with this submission, certifying all site Engineering Controls and Institutional Controls are in place and functioning correctly for the compliance period of January 1 through December 31, 2024.

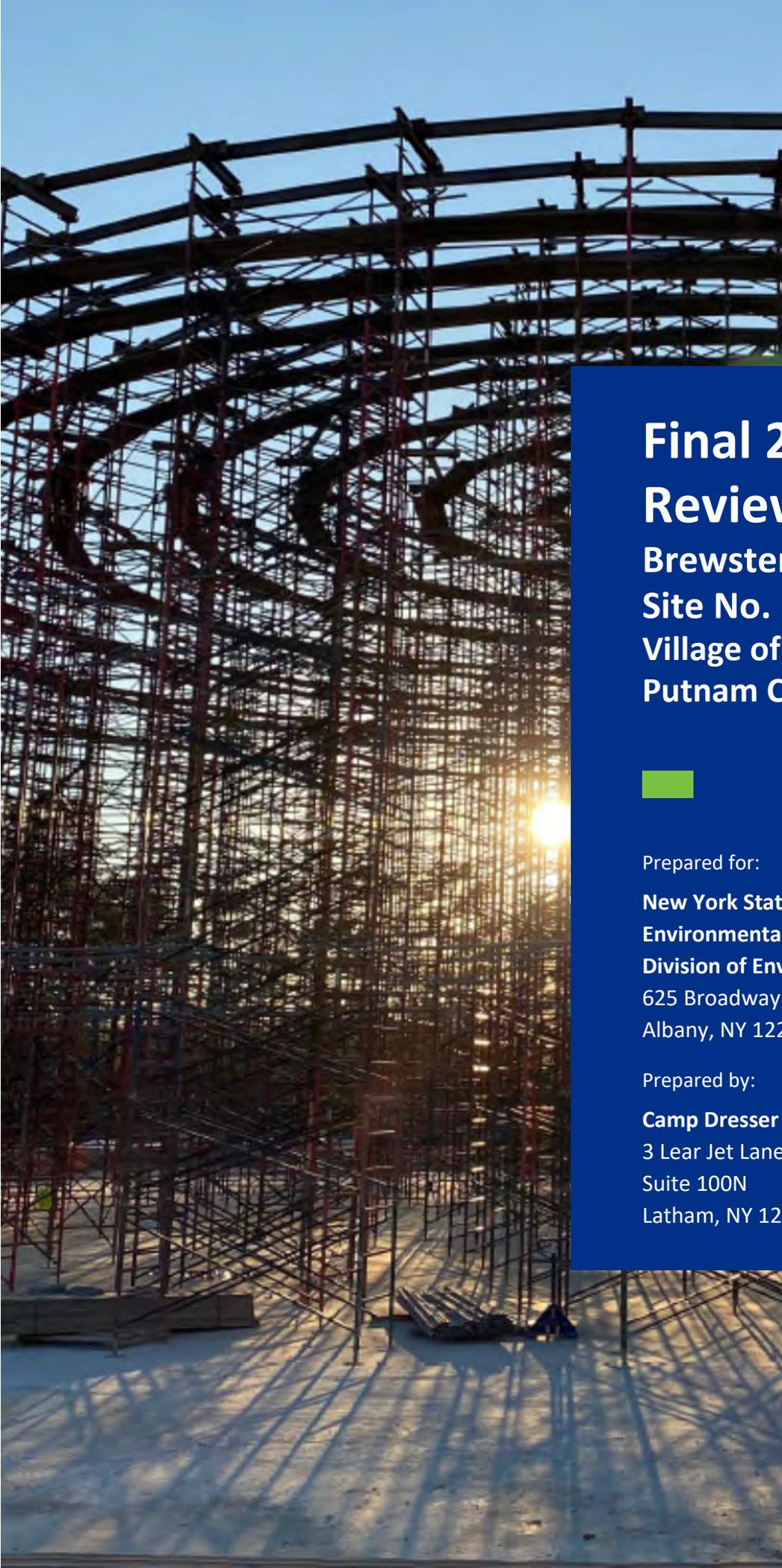
Please do not hesitate to contact me with any comments or questions at (518) 782-4526.

Sincerely,

A handwritten signature in blue ink that reads "Amy Picunas".

Amy Picunas, P.E., PMP  
Principal Engineer  
CDM Smith Inc.

cc: Mr. Jeffrey Dyber, P.E., NYSDEC  
Mr. Michael Cruden, P.E., NYSDEC  
Ms. Julia Kenney, NYSDOH  
Mr. Chris Gurr, P.E., CDM Smith  
Mr. Michael Lamar, P.E., CDM Smith  
Mr. Matthew Renko, F.G., CDM Smith  
Mr. Michael Hoffman, E.I.T., CDM Smith  
Mr. Eric Rosenzweig, CDM Smith



FEBRUARY 2026

# Final 2024 Periodic Review Report

**Brewster Village Well Field  
Site No. 3-40-012  
Village of Brewster  
Putnam County, New York**



Prepared for:

**New York State Department of  
Environmental Conservation,  
Division of Environmental Remediation**  
625 Broadway  
Albany, NY 12233-7017

Prepared by:

**Camp Dresser McKee & Smith**  
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Latham, NY 12110

**CDM  
Smith**



**Enclosure 1**  
**Engineering Controls - Standby Consultant/Contractor Certification Form**



**Site Details**

**Box 1**

**Site No.**            **340012**

**Site Name** **Brewster Village Well Field**

Site Address: Brewster      Zip Code: 10509  
 City/Town: Southeast  
 County: Putnam  
 Site Acreage: 1.0

Reporting Period: November 30, 2023 to December 31, 2024

- |  | YES                                 | NO                                  |
|--|-------------------------------------|-------------------------------------|
| 1. Is the information above correct?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| If NO, include handwritten above or on a separate sheet.   |                                     |                                     |
| 2. To your knowledge has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 3. To your knowledge has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 4. To your knowledge have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| <b>If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.</b> |                                     |                                     |
| 5. To your knowledge is the site currently undergoing development?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Box 2**

- |  | YES                                 | NO                       |
|--|-------------------------------------|--------------------------|
| 6. Is the current site use consistent with the use(s) listed below?<br>Commercial and Industrial | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Are all ICs/ECs in place and functioning as designed?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and contact the DEC PM regarding the development of a Corrective Measures Work Plan to address these issues.**

\_\_\_\_\_  
 Signature of Standby Consultant/Contractor

\_\_\_\_\_  
 Date

**Description of Institutional Controls**

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
68.5-2-16	Aspden Assets Inc, c/o Smith Cairns Fc	Monitoring Plan O&M Plan

Institutional controls. New wells cannot be drilled without a permit from the County Department of Health. The local planning board and the dealership property owner are to contact that DEC/EPA prior to the approval of any construction on the dealership property and any planned development in the general vicinity of the site.

**Description of Engineering Controls**

<u>Parcel</u>	<u>Engineering Control</u>
68.5-2-16	Groundwater Treatment System Vapor Mitigation

Engineering Controls: A groundwater pump and treat system is on-site and periodic groundwater monitoring required. A SSDS is installed at the dealership and is to be run by the dealership.

**Periodic Review Report (PRR) Certification Statements**

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification, including data and material prepared by previous contractors for the current certifying period, if any;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) nothing has occurred that would constitute a failure to comply with the Site Management Plan, or equivalent if no Site Management Plan exists.

YES NO

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and contact the DEC PM regarding the development of a Corrective Measures Work Plan to address these issues.**

\_\_\_\_\_  
Signature of Standby Consultant/Contractor

\_\_\_\_\_  
Date

IC/EC CERTIFICATIONS

Professional Engineer Signature

I certify that all information in Boxes 2 through 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Amy E. Picunas at CDM Smith  
print name

3 Lear Jet Lane, Suite 100N

Latham, NY 12110  
(print business address)

am certifying as a Professional Engineer.

Signature of Professional Engineer

*Amy E. Picunas*



Date

*1/30/2020*



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## Acronyms and Abbreviations

µg/L	micrograms per liter
AC	alternating current
AES	Adirondack Environmental Services
AOC	area of concern
ARAR	applicable or relevant and appropriate standards
ASP	analytical services protocols
AWQS	ambient water quality standards
bgs	below ground surface
CDM Smith	Camp Dresser McKee & Smith
COC	contaminant of concern
DC	direct current
cDCE	cis-1,2-dichloroethylene
DER	Department of Environmental Remediation
DOW	Division of Water
DUP	duplicate
DUSR	data usability summary report
DWS	drinking water standard
EC/IC	engineering and institutional controls
EDD	electronic data deliverable
ESD	explanation of significant differences
EPA	United States Environmental Protection Agency
EWP	excavation work plan
FAP	field activities plan
gpm	gallons per minute
GWTS	groundwater treatment system
IDW	investigation-derived waste
LaBella	LaBella Associates
lbs	pounds
MCL	maximum contaminant level
mg/kg	milligram per kilogram
MTBE	methyl tert-butyl ether
ND	non-detect
NPL	National Priorities List
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDEC EIMS	New York State Department of Environmental Conservation Environmental Information Management System

NYSEG	New York State Electric and Gas
O&M	operations and maintenance
OU	operable unit
P&ID	pipng and instrumentation diagram
Pace	Pace Analytical Services
PCE	tetrachloroethylene (tetrachloroethene)
PFAS	per- and polyfluoroalkyl substances
PFOA	perfluorooctanoic acid
PFOS	perfluorooctanesulfonic acid
PID	photoionization detector
PLC	programmable logic controller
POET	point of entry treatment system
POX	purgeable halocarbons
PM	project manager
PRR	period review report
PVC	polyvinyl chloride
QA/QC	quality assurance quality control
QAPP	quality assurance project plan
RI/FS	remedial investigation feasibility study
ROD	record of decision
RSO	remedial system optimization
SMP	site management plan
SPDES	state pollutant discharge elimination system
SSDS	sub-slab depressurization system
SVE	soil vapor extraction
TCE	trichloroethylene (trichloroethene)
TOGS 1.1.1 GA	New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series Ambient Water Quality Standards and Guidance Values for groundwater
USEPA	United States Environmental Protection Agency
VAC	voltage of alternating current
VC	vinyl chloride
VDC	voltage of direct current
VFD	variable frequency drive
VOC	volatile organic compound

# Executive Summary

This periodic review report (PRR) was prepared by Camp Dresser McKee & Smith (CDM Smith) for the New York State Department of Environmental Conservation (NYSDEC) under Work Assignment No. 1 of CDM Smith’s Standby Contract D009805. NYSDEC assigned Site identification number 3-40-012 for the Brewster Well Field Site (the Site). This PRR covers an evaluation of the annual groundwater monitoring and the operation and maintenance of the remedy installed in operable unit (OU) 1 December 2023 and December 2024.

Category	Summary/Results
Institutional Controls	<ul style="list-style-type: none"> <li>▪ OU-1 Record of Decision (ROD) September 1986, EPA               <ul style="list-style-type: none"> <li>• Continued operation of Village Brewster Well Field groundwater pump and treat system</li> <li>• Installation of EPA GWTS groundwater pump and treat system, south of East Branch of Croton River</li> </ul> </li> <li>▪ OU-2 ROD September 1988, EPA               <ul style="list-style-type: none"> <li>• Excavation and off-site disposal of the onsite Dry Well, its contents, and surrounding contaminated soils</li> </ul> </li> <li>▪ Explanation of Significant Differences (ESD) – October 2009, EPA               <ul style="list-style-type: none"> <li>• Established Site institutional controls (ICs) and installation of the enhanced Sub-slab Depressurization System (SSDs) at the onsite building</li> </ul> </li> <li>▪ Site Management Plan (SMP) (approved September 2024):               <ul style="list-style-type: none"> <li>• Established groundwater use restriction</li> <li>• Ground disturbance restriction</li> <li>• All ICs must be inspected annually and documented in the Periodic Review Report (PRR)</li> </ul> </li> </ul>
Engineering Controls	<ul style="list-style-type: none"> <li>▪ Brewster Village Well Field Groundwater Treatment System (responsibility of the Village of Brewster)</li> <li>▪ Onsite Groundwater Treatment System (GWTS) 2007, NYSDEC</li> <li>▪ Onsite and Offsite Groundwater Monitoring Well Network since September 2007, NYSDEC</li> <li>▪ Onsite SSDS since September 2007, NYSDEC</li> <li>▪ Point of entry treatment system (POET) at onsite building since June 2021, NYSDEC</li> </ul>
Site Classification	Class 4 Inactive Hazardous Waste Disposal Site
Site Management Plan	Site Management Plan – September 2012, revised March 2017, April 2021, December 2022, and September 2024
Certification/ Reporting Period	The Certification Period is established as annual in the December 2022 SMP. The SMP requires annual submittal of a PRR and must include Identification, assessment, and certification of all ECs/ICs required by the remedy for the Site. This PRR covers the period of November 30, 2023 through December 31, 2024.
Site Inspection	<ul style="list-style-type: none"> <li>▪ Onsite GWTS, monthly inspections</li> <li>▪ Onsite and Offsite Groundwater Monitoring Well Network, annual inspections</li> <li>▪ Onsite SSDS, monthly inspections</li> </ul>
Monitoring	<ul style="list-style-type: none"> <li>▪ Offsite Groundwater Treatment System, quarterly monitoring</li> <li>▪ Onsite GWTS, monthly monitoring</li> </ul>

Category	Summary/Results
	<ul style="list-style-type: none"> <li>▪ Onsite and Offsite Groundwater Monitoring Well Network, annual monitoring</li> <li>▪ Onsite SSDS, monthly monitoring</li> <li>▪ Onsite POET system, annual monitoring</li> </ul>
Maintenance	<ul style="list-style-type: none"> <li>▪ Air Stripper Tray Cleaning (GWTS), as needed</li> <li>▪ Flowmeter Wheel Cleaning (GWTS), as needed</li> <li>▪ Variable Flow Drive (VFD) Changeout (GWTS), as needed</li> <li>▪ Weed Whack Site (GWTS), as needed</li> <li>▪ Onsite and Offsite Groundwater Monitoring Well Network, as needed</li> <li>▪ Replacement of SSDS Fans or Appurtenances, as needed</li> </ul>
Prior PRR Recommendations	<p>The 2022-2023 PRR Recommendations included:</p> <ul style="list-style-type: none"> <li>▪ No changes to O&amp;M, inspections, sampling and reporting are recommended at this time.</li> <li>▪ Exploration of the proposed RSO alternatives to identify an alternative that can better achieve the Site remedial goals and implement that alternative.</li> </ul>
Site Management Activities – EC Compliance and Effectiveness	<p>Routine site inspections and monitoring were conducted in accordance with the SMP during this reporting period (February 2024 through December 2024). A summary of activities, split out by EC is bulleted below.</p> <p>Brewster Village Well Field Groundwater Treatment System</p> <ul style="list-style-type: none"> <li>▪ <b>2024 Operations:</b> The Village of Brewster maintained and conducted quarterly monitoring of the offsite wellhead treatment system located at the Village of Brewster Well Field. Samples were collected from the pump house and well field. Site contaminants of concern PCE and cDCE were detected both pre- and post-treatment at the Village water system in 2023. Aside from chloroform, all concentrations were below their respective Technical and Operational Guidance Series 1.1.1 Ambient Water Quality Standards (AWQS) limits (5 micrograms per liter [µg/L] for PCE and cDCE).</li> </ul> <p>GWTS Operations &amp; Maintenance (O&amp;M) Activities</p> <ul style="list-style-type: none"> <li>▪ <b>2024 Operations:</b> The GWTS treated approximately 10,088,704 gallons of water between February 5, 2024 and December 20, 2024. The GWTS average combined influent PCE concentration was 298 µg/L and the average combined effluent PCE concentration was 0.309 µg/L in 2024. The GWTS removed a total of 13.68 lbs of VOCs in 2024.</li> <li>▪ <b>January 9, 2024:</b> GWTS shut down due to Sump High-High alarm. Remote restart was performed on January 12, 2024.</li> <li>▪ <b>January 12-13, 2024:</b> GWTS shut down over night due to power outage caused by a storm. NYSEG successfully brought power back online the morning of January 13, 2024.</li> <li>▪ <b>March 23, 2024:</b> GWTS shut down due to sump high alarm. Remote restart was performed on March 25, 2024.</li> <li>▪ <b>May 13, 2024:</b> Innovative Recycling Technologies, Inc pick up non-hazardous IDW from site.</li> <li>▪ <b>May 23, 2024:</b> GWTS shut down due to sump high high alarm. Remote restart performed on May 24, 2024.</li> <li>▪ <b>June 26, 2024:</b> System shut down due to loss of power. Remote restart was performed on June 27, 2024.</li> <li>▪ <b>July 17, 2024:</b> System shut down due to loss of power. Remote restart was performed on July 18, 2024.</li> <li>▪ <b>September 3, 2024:</b> System shut down due to loss of power. Remote restart was performed on September 4, 2024.</li> <li>▪ <b>September 11, 2024:</b> GWTS was shut down for approximately 3 hours for an attempt to repair the vent stack. Work was not completed due to equipment issues</li> </ul>

Category	Summary/Results
	<ul style="list-style-type: none"> <li>▪ <b>September 13, 2024:</b> GWTS was shut down for approximately 1 hour to address ProControl connectivity issues. The source of the issue was not identified and CDM Smith contacted EOS Research (ProControl unit manufacturer) to discuss need for replacement components.</li> </ul> <p>SSDS O&amp;M Activities</p> <ul style="list-style-type: none"> <li>▪ <b>February 5 – December 20, 2024:</b> Pressure readings for SDS-1 remained in a range of 14- 17 in of water. SDS-2 remained in a range of 8 – 10 in of water. SDS-3 remained in a range of 7 – 12 in of water. SDS-4 remained in a range of 7 – 12 in of water. SDS-5 remained in a range of 8 – 10 in of water.</li> </ul> <p>Groundwater Monitoring Network O&amp;M Activities</p> <ul style="list-style-type: none"> <li>▪ CDM Smith did not collect groundwater samples during the 2024 compliance period. CDM Smith collected groundwater sampling between April 22 and May 1, 2025, in support of the baseline sampling of the Injection Pilot Study. Those results are presented herein, to evaluate site ECs effectiveness.</li> </ul>
<p>Site Management Activities – IC Compliance and Effectiveness</p>	<ul style="list-style-type: none"> <li>▪ The Brewster Subaru dealership operated continuously throughout the current compliance period (December 2023 through December 2024), in accordance with current zoning as a commercial property.</li> <li>▪ An onsite drinking water well supplies water to the Brewster Subaru dealership building. A POET system has been installed and operating at the onsite building since June 2021 and is maintained by NYSDEC.</li> <li>▪ Excavation and trenching occurred offsite at the Brady Stannard Dealership ongoing from June 2024 through December 2024.</li> <li>▪ The Brewster Subaru dealership parking lot was used as a staging area for road work equipment in August and September 2024.</li> </ul>
<p>Significant Findings or Concerns</p>	<ul style="list-style-type: none"> <li>▪ The Brewster Village Well Field wellhead treatment system is working effectively. PCE and cDCE were detected both pre- and post-treatment at the Village water system in 2024, below AWQS. The continued operation of the well head treatment system prevented ingestion, inhalation, or any contact with contaminated material to the Village of Brewster residents utilizing the public water supply during this compliance period.</li> <li>▪ The onsite GWTS has been in operation for 17 years, and in that time CDM Smith has observed an order of magnitude reduction of combined influent concentrations. Beginning in mid-2019, equipment failures have resulted in partial or full shutdown of the GWTS between monthly visits thus reducing the effectiveness of meeting Site remedial goals. These shutdowns of the onsite GWTS have provided additional resonance time for the groundwater to come in contact with residually contaminated soils beneath the Subaru dealership building, resulting in spikes in combined influent concentrations. The increasingly prolonged periods of system downtime endanger the effectiveness of the GWTS to maintain hydraulic control and overall VOC treatment and removal. In 2022, CDM Smith submitted a draft RSO report to NYSDEC, outlining alternatives to the current remedy and recommendations for improved remedial system effectiveness.</li> <li>▪ The onsite SSDS operated successfully from December 2023 through December 2024. The continued operation of the SSDS prevented ingestion, inhalation, or any contact with contaminated material within the Subaru dealership building during this compliance period.</li> <li>▪ The annual groundwater monitoring well network sampling effectively monitors the onsite and downgradient contaminant plume.</li> <li>▪ All Site ICs were achieved for the current compliance period. Excluding the onsite GWTS, all other SMP inspections, monitoring, maintenance, and reporting requirements were met for the compliance period. No changes to the ICs and SMP requirements for inspections, sampling and reporting are recommended at this time.</li> </ul>
<p>Recommendations</p>	<ul style="list-style-type: none"> <li>▪ No changes to O&amp;M, inspections, sampling and reporting are recommended at this time.</li> <li>▪ Exploration of the proposed RSO alternatives to identify an alternative that can better achieve the Site remedial goals and implement that alternative.</li> </ul>

Category	Summary/Results
Cost Evaluation	<p>The total cost for operation and maintenance of the treatment system, long term monitoring, sampling activities, and analytical and reporting for the current compliance period (December 2023 through December 2024) was approximately \$250,983.54. Costs also include:</p> <ul style="list-style-type: none"><li>▪ \$151,562 for completing the injection pilot study investigation, reporting, and work plan development.</li></ul>

# 1.0 Site Overview

This PRR provides a site history on the components of the remedy installed and describes the annual groundwater monitoring and the operation and maintenance of the remedy, conducted during the current compliance period of December 2023 and December 2024. This PRR was prepared in accordance with the NYSDEC Division of Environmental Remediation (DER) Work Assignment (WA) No. 1 of CDM Smith’s Standby Contract D009805. The NYSDEC assigned Site identification number 3-40-012 for the Brewster Well Field Site (the Site). A summary of the Site and applicable remedial program information is presented below.

Site Information			
<b>Site Name</b>	Brewster Village Well Field	<b>NYSDEC Site No.</b>	340012
<b>Site Location</b>	1022 New York Route 22 Brewster, NY 10509	<b>Remedial Program</b>	Inactive Hazardous Waste Disposal
<b>Site Type</b>	Former Dry Cleaner	<b>Classification</b>	Class 4
<b>Parcel Identification</b>	<ul style="list-style-type: none"> <li>Tax ID 68.5-2-16</li> </ul>	<b>Parcel/Acreage</b>	21.2 acres total: <ul style="list-style-type: none"> <li>OU-1 2.66 acres (onsite)</li> <li>OU-2 18.54 acres (offsite)</li> </ul>
<b>Selected Remedy</b>	<ul style="list-style-type: none"> <li>Two groundwater pump and treat systems (onsite and offsite)</li> <li>Onsite Sub-slab Depressurization System (SSDS) since September 2007, NYSDEC.</li> <li>Onsite and offsite groundwater monitoring</li> </ul>	<b>Site COCs</b>	<ul style="list-style-type: none"> <li>VOCs</li> </ul>
<b>Current Remedial Program Phase</b>	Post Remedial Action Site Monitoring; Site Management	<b>ICs</b>	<ul style="list-style-type: none"> <li>OU-1 ROD, EPA.</li> <li>OU-2 ROD, EPA.</li> <li>ESD, EPA.</li> <li>SMP, NYSDEC.</li> </ul>
<b>Post-Remediation Monitoring and Sampling Frequency</b>	<ul style="list-style-type: none"> <li>Brewster Village Well Field Groundwater Treatment System, quarterly monitoring</li> <li>Onsite GWTS, monthly monitoring</li> <li>Onsite and Offsite Groundwater Monitoring Well Network, annual monitoring</li> <li>Onsite SSDS, monthly monitoring</li> </ul>	<b>ECs</b>	<ul style="list-style-type: none"> <li>Brewster Village Well Field Groundwater Treatment System (responsibility of the Village of Brewster)</li> <li>Onsite GWTS, NYSDEC.</li> <li>Onsite and Offsite Groundwater Monitoring Well Network, NYSDEC.</li> <li>Onsite SSDS, NYSDEC.</li> <li>Onsite POET system, NYSDEC.</li> </ul>
<b>Monitoring Locations</b>	18 Overburden Monitoring Wells: <ul style="list-style-type: none"> <li>1 screened in shallow aquifer</li> <li>16 screened in intermediate aquifer</li> <li>1 screened in deep aquifer</li> </ul>	<b>Required Reporting</b>	Annual

## 1.1 Site Location and Features

The Site spans the East Branch of the Croton River (the River) from the Brewster Well Field to the north, and the properties of the former Brady Stannard and Subaru (former Alben Dry Cleaners) dealerships along Old Route 22 to the south (see **Figure 1.1**). The Site is approximately three-quarters of a mile east of the Village of Brewster in the Town of Southeast, Putnam County, New York. The land to the north and west of the site is largely residential while most of the land south of the site is occupied by commercial or light industrial facilities. The subsurface hydrogeology consists of unconsolidated sediments overlying bedrock. Groundwater flow on the south side of the East Branch of the Croton River (from source area) to the north. Under natural conditions (i.e., no well field), groundwater would discharge to the River from both the north and south. However, due to the historic pumping at the Village's well field north of the river, groundwater flows beneath the river from the south.

The East Branch of the Croton River flows southwest and contributes to the Croton Falls Reservoir approximately 3.5 miles downstream. The East Branch of the Croton River is also impounded approximately 3,000 feet upstream to form the East Branch Croton Reservoir.

The only known active private well within the impacted Site area is located at the Brewster Subaru property. The well is used as a water supply source for the Brewster Subaru building. A POET system was installed at the onsite building in June 2021 and is maintained by NYSDEC. Through November 2024, Brewster Subaru purchased bottled water to use as their source of potable water. The Brewster Subaru dealership moved out of the onsite building in November 2024 and it is currently vacant.

## 1.2 Site, Regulatory, and Remedial History

In 1978, the initial contamination discovery indicated chlorinated solvent contamination in the Brewster Village Well Field. The Site was then placed on the National Priorities List (NPL) in December 1982. Under a cooperative agreement with the U.S. Environmental Protection Agency (EPA) Office of Research and Development, a packed tower air stripper was installed in 1984 at the Village's well field to provide treatment of the water supply (EPA 2007).

A remedial investigation/feasibility study (RI/FS) was performed in 1986 to determine the nature and extent of groundwater contamination in the vicinity of the Brewster Well Field (GHR 1986). The RI concluded that the primary COCs were tetrachloroethylene (PCE), trichloroethylene (TCE), and cis-1,2-dichloroethylene (cDCE). In addition, the source of the contamination was traced to Alben Dry Cleaners, a local dry-cleaning business located upgradient of the well field and formerly located at the present-day Brewster Subaru dealership.

After completing an RI/FS at the Site, the Operable Unit (OU)-1 Record of Decision (ROD) was issued in 1986 (EPA 1986). The selected remedy included:

- Continued operation (by the Village) of the existing packed column air stripping system at the well field north of the River to provide the Village a water supply that exceeds applicable or relevant and appropriate standards (ARARs)
- Design and construction of a groundwater management system (GMS) comprising extraction wells, treatment of the extracted water by an additional air stripper, and reinjection of the

treated water, to contain the plume of contamination and restore the groundwater quality south of the East Branch Croton River

EPA installed the GMS in 1991 northeast of the former Brady-Stannard dealership to treat the volatile organic compound (VOC) plume. This system was in full operation from 1996 until EPA replaced it with the groundwater treatment system (GWTS) at the Subaru dealership in 2007. The 1991 GMS was later demolished in 2012. The operation and maintenance of the GWTS installed in 2007 was transferred to NYSDEC in October 2007 and is still under the oversight of NYSDEC.

The 1986 ROD also called for an RI/FS to identify and address the source(s) of groundwater contamination (EPA 1986). A supplemental RI/FS was completed in July 1988. Based upon the results of soil and groundwater sampling activities, a Dry Well adjacent to Alben Dry Cleaners was identified as a significant source of contamination. It is understood that the dry cleaners used the Dry Well for discharging chlorinated solvent waste from the business's initial operation in 1965 until 1983. It is unknown how much was discharged during this time.

In September 1988, EPA issued a second Operable Unit (OU-2) ROD (EPA 1988). This "source control" ROD called for the excavation to a depth of 15 feet below ground surface (bgs) and off-site disposal of the Dry Well, its contents, and surrounding contaminated soils. Foster Wheeler Environmental completed the OU-2 remedial action in September 1991. The Dry Well and 20 tons of contaminated soil were removed, transported, and disposed of off-site. Final confirmation samples showed that the target cleanup goal of 4 milligrams per kilogram (mg/kg) for PCE in the unsaturated zone was accomplished. Remediation of the contamination source reduced contamination of the soils in the unsaturated zone to acceptable health-based levels (EPA 2007).

Because of the potential for vapor-phase migration of VOCs from the subsurface into overlying buildings at properties near the groundwater plume, soil gas samples were collected under the slab of the Subaru dealership in January 2006. Elevated VOC concentrations led to the installation of a sub-slab depressurization system (SSDS) beneath the dealership in January 2007 to address potential indoor air contamination from the VOC contamination under the building. In addition, based on the significantly elevated levels of VOCs immediately beneath what is currently referred to as the "Parts Room" (central to the on-site building), it was later determined that a floor drain used in discharging chlorinated solvents within this area of the building was likely the source of the elevated VOCs. In January 2009, EPA performed a soil investigation beneath the Subaru dealership within the Parts Room to determine whether residual soil contamination was present. Findings of this investigation indicated that high levels of VOCs were present in the soil at a depth of 5 feet beneath the Parts Room (EPA 2009), **Figure 1.2** presents the SSDS locations. The volume of the soil contamination appeared to be fairly small but was generally unknown. The SSDS was enhanced with additional and deeper piping systems (10 feet below ground) as well as a larger capacity blower, as a response to target the contaminated soil. EPA performed an additional investigation in July 2011 to determine whether soil contamination beneath the Parts Room still remained. Confirmation soil samples collected from the area were all detected below the NYSDEC unrestricted use soil cleanup objective of 1.3 mg/kg (EPA 2012).

Operation and maintenance of the enhanced SSDS was transferred to NYSDEC in 2013 (EPA 2017). The SSDS remains in operation due to residual contamination in the groundwater beneath the building.

Excavation activities at the former Brady Stannard dealership property have been occurring periodically since May 2017. This property is a spill site registered with NYSDEC under a different contract. Excavation activities conducted in 2021 resulted in the removal of two well clusters, ERT-10I and ERT-10D, and DGC-19S, DGC-19I, and DGC-19D. Four wells were installed east of the Brady Stannard dealership building, sounding of these wells determined they are screened too shallow to monitor the intermediate aquifer (8-9.25 ft bgs) and therefore not incorporated into the annual groundwater sampling monitoring well network for this Site. No action has been taken to replace the original well clusters because it is unclear if all excavation activities have been completed for the Brady Stannard property. Additionally, the following wells are located downgradient of the ERT-10 and DGC-19 well clusters and are sampled annually: DGC-16I, DCG-6I, and DGC-8I. Replacement of the ERT-10 and DGC-19 well clusters will be revisited once it is confirmed all excavation activities at the Brady Stannard property have been completed.

Following demolition of the former Brady Stannard building, excavation activities resumed in 2024 within the footprint of the former building. The closest monitoring wells to the observed damage, DCG-3S and DGC-3I, appear to remain in good condition and will continue to be a part of the annual monitoring program. The damaged well clusters were replaced between January 20-23, 2025 and have been incorporated into the annual monitoring program.

### 1.3 Remedy Description

The original 1986 ROD described the public health and environmental objectives of plume containment and restoration of groundwater quality south of the River. ARARs for the Site were established in 1986 as EPA's MCLs and New York State's groundwater quality standards established pursuant to the Clean Water Act:

- EPA Safe Drinking Water Act limit of 5 µg/L for TCE
- NYS Groundwater Standard of 10 µg/L for TCE\*

\*Note: the most recent revision of the NYSDEC AWQS issued in June 1998 presents a value of 5 µg/L as the groundwater standard for TCE. Therefore, annual groundwater sampling data as presented in the PRRs are compared to 5 µg/L for TCE.

The current remedy includes the existing air stripping system at the Brewster Village Well Field north of the River, a series of three extraction wells screened in the unconsolidated overburden north of the Subaru dealership and a stacked tray air stripper, and the enhanced SSDS at the Subaru dealership. A total of 83 wells were installed for monitoring, extraction, and injection purposes. Of those, 52 groundwater monitoring wells remain accessible and functional. During the compliance period (December 2023 to December 2024), no groundwater monitoring samples were collected. Groundwater sampling was conducted between April 22 and May 1, 2025, as part of the baseline sampling event for the Injection Pilot Study. Those result are presented herein, to evaluate the site ECs effectiveness. **Figure 1.3** presents the historical and existing well network, onsite and offsite.

## 1.4 Remaining Contamination

Two separate plumes, beneath the Brewster Subaru building and at the Former Dry Well, have been identified (**Figure 4.1** through **Figure 4.4**). The plume data is based on samples collected in 2025.

### 1.4.1 Under the Building

A Remedial System Optimization (RSO) investigation, performed in January 2022 via Membrane Interface Probe/Hydraulic Profiling Tool (MiHPT), identified a reservoir of mass at the deeper sand/clay interface, at 29 feet bgs, approximately 50 feet from the Parts Room, where historically high PCE concentrations (95,000 micrograms per kilogram [ $\mu\text{g}/\text{kg}$ ]) in soil were previously discovered. This high-concentration area has never been excavated or otherwise directly remediated. During post-MiHPT soil and groundwater sampling, a groundwater concentration of 12,000  $\mu\text{g}/\text{L}$  of PCE was found at the same location. This plume migrates from the Parts Room toward the extraction wells, likely due to the historical pumping of the extraction wells. Sub-slab vapor samples have not been taken recently. Therefore, it is uncertain the degree to which the vadose zone is still contaminated.

### 1.4.2 Former Dry Well

In the 1980s, nonaqueous phase liquid (NAPL)-level detections were identified down to 12 feet bgs in the Former Dry Well. The Former Dry Well was subsequently excavated to 15 feet bgs, 3 feet below the bottom of structure. The lateral extent of this excavation is unknown. During the June 2021 annual groundwater sampling event, ERT-6I detected 420  $\mu\text{g}/\text{L}$  of PCE in the groundwater. ERT-6I was screened from 15 to 25 feet bgs, indicating that a mass of contamination is present down to 25 feet bgs. Another MiHPT probe revealed a maximum halogen specific detector (XSD) response, indicating VOC contamination, in the same interval in which ERT-6I was screened. The borelog in this area indicated a thin silt interval where the XSD response was, and the MiHPT log showed a change in electrical conductivity and slight change in hydraulic profile pressure, which would indicate a lower-permeability layer at the interval where the XSD response was. This would indicate that residual source material from the historical discharges to the Former Dry Well is associated with a lower-permeability layer at about 18 feet bgs. The hydraulic gradient is minimal in this area of the site and does not have any hydraulic influence from the extraction wells. Groundwater sample concentrations to the north were below the laboratory's detection limit (nondetect), bounding the plume downgradient, and CDM-SB-4 groundwater samples were nondetect, bounding the plume upgradient.

## 1.5 Regulatory Requirements/Cleanup Goals

Remedial Action Objectives (RAOs) focus on the remaining source material (VOCs) and provide source treatment and plume control such that an uncontrolled risk to human health and the environment would not develop in the future. The RAOs are not media-specific and were developed to be qualitative objectives. The RAOs are summarized as follows:

- OU-1 Record of Decision (1986)
  - Provide a safe, reliable water supply, meeting EPA standards, to the Village
  - Contain the plume of contamination to mitigate further contamination of public water supplies

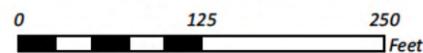
- Restore groundwater quality at and in the vicinity of the Brewster Well Field to acceptable levels (NYS Groundwater Standards)
- OU-2 Record of Decision (1990)
  - Ensure the viability of the GMS to be constructed under OU-1 by removing any continuing source of contamination

Minimize any potential risks associated with direct contact with contaminated residual site soils by removing any soils posing unacceptable health risks



### Site Location Map

1 inch = 125 feet



Brewster Village Well Field  
Brewster, NY  
Figure 1.1



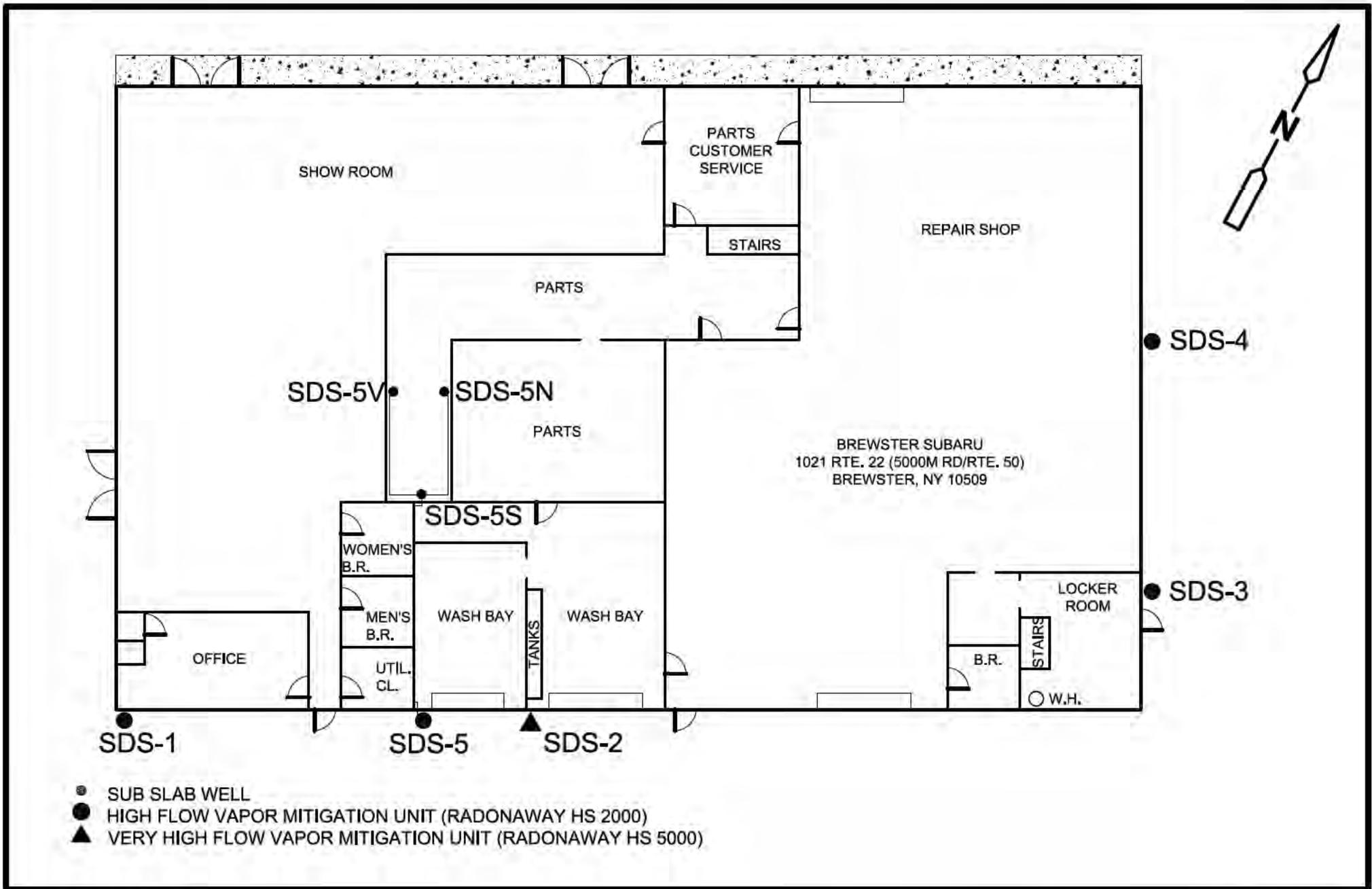
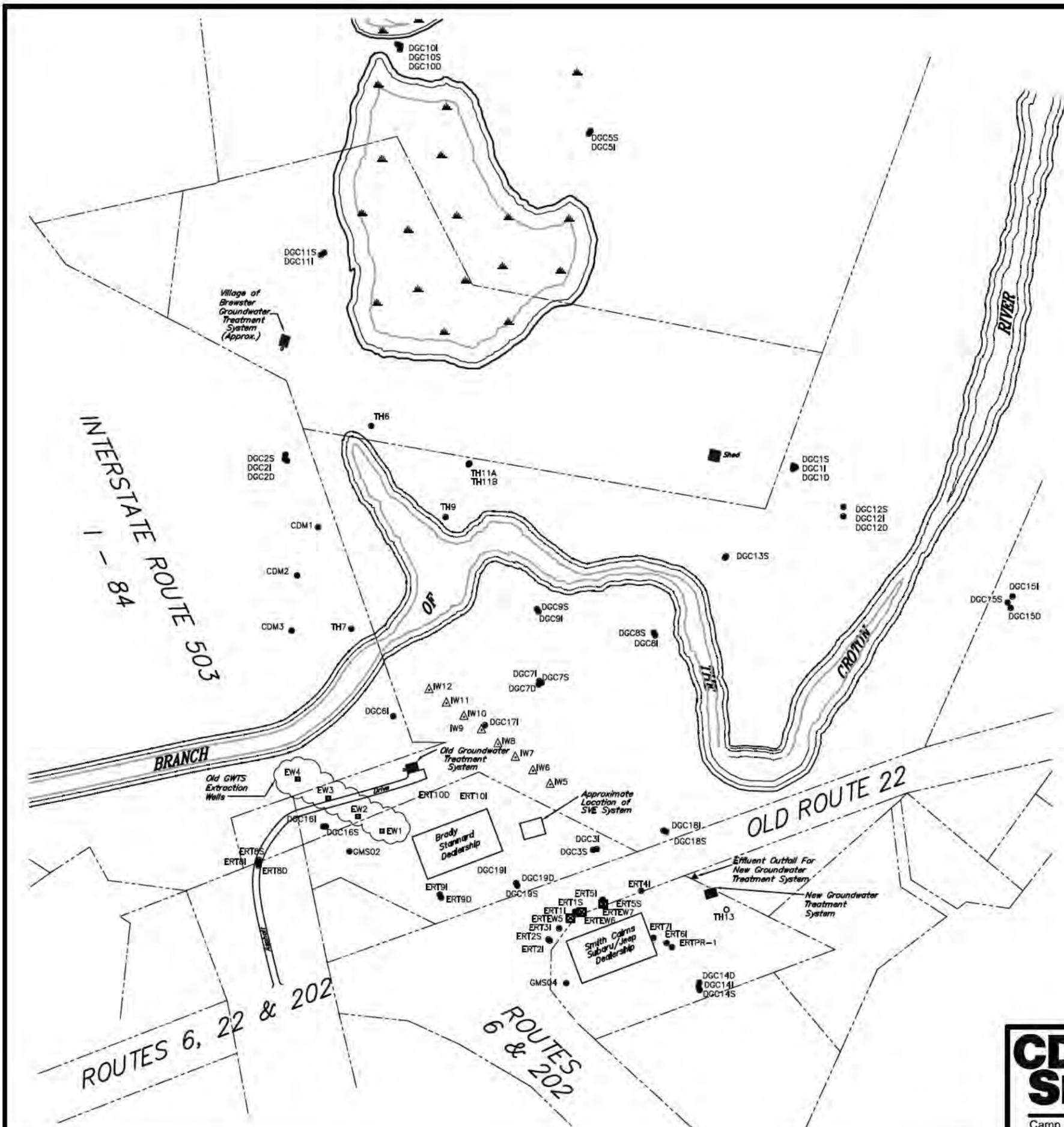


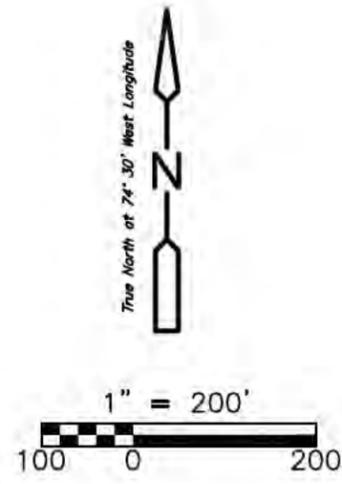
Figure 1.2  
 Sub-Slab Depressurization System Location Map  
 NYSDEC Brewster Village Well Field



**LEGEND**

- DGS1 MONITORING WELL WITH DESIGNATION
- EW1 OLD GWTS EXTRACTION WELL WITH DESIGNATION
- △ IW1 OLD GWTS INJECTION WELL WITH DESIGNATION
- ⊠ ERT-EW5 NEW GWTS EXTRACTION WELL WITH DESIGNATION
- - - - - APPROXIMATE PROPERTY LINE

THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.



**BREWSTER VILLAGE  
WELL FIELD**

**SITE PLAN**  
SEPTEMBER 2012

**FIGURE NO.**  
1.3



## 2.0 Engineering and Institutional Controls

The Engineering and Institutional Controls (EC/IC) Plan is included as part of the SMP. The EC/ICs at the Site currently consist of:

### Institutional Controls

- The Explanation of Significant Differences (ESD) dated October 2009, instituting the need for ICs at the Site (bulleted below) and describing the enhanced SSDS installed beneath the Subaru dealership building.
- The Site Management Plan (SMP) dated December 2022, consisting of the following:
  - New wells installed in Putnam County require a permit from the Putnam County Department of Health, in conjunction with New York State Department of Health. This further prevents the installation of new wells in the contaminated plume for the purpose of drinking water supply.
  - The local planning board shall contact the EPA, New York State Department of Health, and New York State Department of Environmental Conservation prior to the approval of any construction on the Brewster Subaru property or any planned development in the general vicinity of the Site.
  - All ICs must be inspected at a frequency of annually and documented in the Periodic Review Report.

### Engineering Controls

- Brewster Village Well Field Groundwater Treatment System (responsibility of the Village of Brewster)
- Onsite GWTS
- Onsite and offsite groundwater monitoring well network
- Onsite SSDS
- Onsite POET system

## 2.1 EC/IC Requirements and Compliance

Determination of compliance with the EC/IC at the Site is partially based on the following criteria:

- The EC/IC(s) applied at the Site are in place and unchanged from the previous certification
- Nothing has occurred that would impair the ability of such controls to protect the public health and the environment or constitute a violation or failure to comply with any element of the SMP for such controls.
- Access to the Site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of such controls.

### 2.1.1 Brewster Village Well Field Groundwater Treatment System Effectiveness and Compliance

The Village of Brewster provided uninterrupted operations and monitoring of the offsite wellhead treatment system throughout the current compliance period. The wellhead treatment system is located at the Village of Brewster Well Field and quarterly sampling was conducted at the pump house and well field. Site contaminants of concern PCE and cDCE were detected both pre- and post-treatment at the Village water system in 2024; although, aside from chloroform, all concentrations were below their respective AWQS.

Uninterrupted operations of the Brewster Village Well Field wellhead treatment continued throughout the compliance period, thus prevented ingestion, inhalation, or any contact with contaminated groundwater to the Village of Brewster during the current compliance period.

### 2.1.2 Onsite GWTS Effectiveness and Compliance

The 1986 OU-1 ROD issued by EPA identified ARARs for the Site to include EPA's Maximum Contaminant Levels (MCLs), and New York State's groundwater quality standards established pursuant to the Clean Water Act, as follows:

- EPA Safe Drinking Water Act limit of 5 µg/L for TCE
- NYS Groundwater Standard of 10 µg/L for TCE\*

\*Note: the most recent revision of the NYSDEC AWQS issued in June 1998 presents a value of 5 µg/L as the groundwater standard for TCE. Therefore, annual groundwater sampling data as presented in the PRRs are compared to 5 µg/L for TCE.

Performance of the GWTS is evaluated through review of the analytical results of monthly sampling over time. Additionally, evaluations of groundwater are conducted quarterly at and in the vicinity of the Brewster Well Field and annually for groundwater downgradient of OU-1 and upgradient of the Brewster Village Well Field. Consistent GWTS performance without shutdowns or equipment failure is also evaluated.

The GWTS treated approximately 10,088,704 gallons of water between February 5, 2024 and December 20, 2024. The GWTS average combined influence PCE concentration was 298 micrograms per liter (µg/L) and removed a total of 13.68 pounds (lbs) of VOCs in 2024. The GWTS was shut down nine times throughout 2024, which resulted in some decreased volume of water pumped and treated. The shutdowns were due to power outages, sump high-high alarms, repair of a vent stack and a system investigation of the ProControl unit. In most cases the GWTS was offline for less than 24 hours, but in two instances the system was offline for an extended period. System shut downs, their reasons, and the length of time the system was offline are summarized in the table below. **Table 2.1** summarizes GWTS downtime and impacts to the combined effluent compliance.

**Table 2.1 2024 GWTS Downtime and Effects to Combined Effluent Compliance**

Date	Explanation
1/9/2024	<p>System shut down due to sump high-high alarm. A remote restart was performed on January 12, 2024. System was down for approximately four days.</p> <p>There were no detections of site COCs in the Combined Effluent for February 2024.</p>
1/12/2024	<p>System was shut down due to power outage caused by a storm. NYSEG successfully brought power back online the morning of January 13, 2024. A remote restart was performed on January 15, 2024. System was down for approximately one day.</p> <p>There were no detections of site COCs in the Combined Effluent for February 2024.</p>
3/23/2024	<p>System shut down due to sump high alarm. A remote restart was performed on March 25, 2024. System was down for approximately two days.</p> <p>There were no detections of site COCs in the Combined Effluent for April 2024.</p>
5/23/2024	<p>System shut down due to sump high alarm. A remote restart was performed on May 24, 2024. System was down for approximately one day.</p> <p>There were no detections of site COCs in the Combined Effluent for June 2024.</p>
6/26/2024	<p>System shut down due to loss of power. A remote restart was performed on June 27, 2024. System was down for approximately one day.</p> <p>PCE was detected in the Combined Effluent during the July 2024 sampling event, below the SPDES Permit limit of 0.7 µg/L. All other COCs were not detected.</p>
7/17/2024	<p>System shut down due to loss of power. A remote restart was performed on July 28, 2024. System was down for approximately one day.</p> <p>PCE was detected in the Combined Effluent during the July 2024 sampling event, below the SPDES Permit limit of 0.7 µg/L. All other COCs were not detected.</p>
9/3/2024	<p>System shut down due to loss of power. A remote restart was performed on September 4, 2024. System was down for approximately one day.</p> <p>There were no detections of site COCs in the Combined Effluent for September 2024.</p>
9/11/2024	<p>Environmental Assessment and Remediations (EAR), Inc. arrives onsite to repair the vent stack for the GWTS. The system was manually shut down for approximately 3 hours and 10 minutes to ensure hazards associated with GWTS operation (such as noise and VOCs being vented through the stack) would not interfere with the work. There were limited interruptions to the system and overall effectiveness of the treatment.</p> <p>There were no detections of site COCs in the Combined Effluent for September 2024.</p>
9/13/2024	<p>CDM Smith arrived at the GWTS to check why daily update emails had not been sent for 9/12/2024 and 9/13/2024. The system was shut down to reset to ProControl Unit which proved unsuccessful. The system was shut down for approximately 1 hour. There were limited interruptions to the system and overall effectiveness of the treatment.</p> <p>There were no detections of site COCs in the Combined Effluent for September 2024.</p>

Compliance with the SPDES Permit and AWQS limits has been reestablished with resumption of full operation of the GWTS and regular inspections and maintenance to the system. Additionally, resumption of GWTS operations prevented ingestion, inhalation, or any contact with contaminated groundwater during the remainder of the current compliance period.

### 2.1.3 Groundwater Monitoring Well Network Effectiveness and Compliance

The Site contains approximately 49 functional groundwater monitoring wells, 3 functional groundwater extraction wells, 21 groundwater monitoring wells that were destroyed or removed, and 10 groundwater monitoring wells that were not located during 2023 inspections. The groundwater monitoring well network allows for the evaluation of the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site. CDM Smith inspects the wells that are still monitored (under the direction of NYSDEC) a minimum of once per year for damage.

Groundwater monitoring was not conducted during the December 2023 through December 2024 compliance period. Monitoring wells immediately downgradient of the site were removed during 2021 excavation activities at the former Brady Stannard Dealership property. Subsequently, EPA raised concerns that removal of these vital monitoring locations would result in an incomplete evaluation of site conditions. Therefore, it was agreed these monitoring wells would be replaced upon completion of the demolition activities. Once the demolition was completed in 2024, the damaged well clusters were replaced between January 20-23, 2025 and have been incorporated into the annual monitoring program. Groundwater sampling was conducted between April 22 and May 1, 2025, as part of the baseline sampling event for the IPS. In agreement with the NYSDEC, the results from the 2025 baseline groundwater monitoring event are presented below to evaluate the site's EC effectiveness instead of the 2024 groundwater data. Damaged wells are identified and repaired in a timely manner. The monitoring well network is positioned and screened to effectively monitor the onsite and downgradient contaminant plume.

### 2.1.4 Sub-Slab Mitigation System Effectiveness and Compliance

The sub-slab mitigation system consists of five sub-slab depressurization system (SDS) locations (SDS-1 through SDS-5). All locations consist of piping, fittings, mitigation fans, and differential pressure gauges. Each location has one sub-slab suction point, except for SDS-5, which has three. All three suction points are located under the parts storage room of the Brewster Subaru dealership (Figure 8 of the SMP). The sub-slab mitigation system is inspected annually alongside the annual groundwater sampling event. Inspection logs for each SDS location are populated and provided to NYSDEC.

Additionally, at the request of the EPA, beginning in April 2018 LaBella included motor sound checks and visual inspection of the magnehelic meters during the monthly inspections. Written observations have been included in each of the monthly monitoring reports since that time, and the monthly inspection reports are presented in the annual PRRs. Starting in 2020, photographs of each of the magnehelic meters during the monthly inspections are included in the monthly inspection reports.

CDM Smith performed monthly inspections and recorded written and photographic documentation of the sub-slab depressurization system (SSDS) magnehelic pressure gauges throughout the current compliance period. There were no issues related to operations of the SSDS gauges throughout the December 2023 to December 2024 compliance period.

The continued operation of the SSDS is minimizing the potential for soil vapor intrusion into the onsite building.

### 2.1.5 Onsite POET System

Following sampling of the onsite potable water well under NYSDOH's emerging contaminants program, a POET system was installed in southeast corner of the onsite building. The POET system was installed on June 3, 2021, inline and immediately following the building's water softening tank. The system consists of the following components: one sediment filter, two granular activated carbon (GAC) filtration units to treat for chemical contaminants, one ultraviolet (UV) unit to disinfect, two ball valves, one flowmeter, two taps to flush the system during maintenance/repairs, and three sampling ports (influent, effluent, and in-between the GAC units).

Installation and continued operation, maintenance and monitoring of the POET system has prevented ingestion, inhalation, or any contact with contaminated groundwater during the current compliance period.

### 2.1.6 ICs Effectiveness and Compliance

- The Brewster Subaru dealership operated continuously throughout the current compliance period (December 2023 through November 2024), in accordance with current zoning as a commercial property. Brewster Subaru moved out of the onsite building in November 2024 and the building is currently vacant.
- An onsite drinking water well supplies water to the Brewster Subaru dealership building. A POET system has been installed at the onsite building since 2021 and is maintained by NYSDEC.
- No construction or excavation occurred onsite during the current compliance period.

Adherence to the restrictions for land use, groundwater as a source of drinking water and ground disturbance has prevented ingestion, inhalation, or any contact with contaminated material within the Subaru dealership building during the current compliance period.

### 2.1.7 SMP Requirements for Inspections, Monitoring, Maintenance, and Reporting

The requirements for inspections, monitoring, maintenance, and reporting presented in the SMP were met during the current compliance period of December 2023 through December 2024. The bullet list below summarizes this:

CDM Smith did not collect groundwater samples during the current compliance period. Groundwater sampling was conducted as part of the Injection Pilot Study performance monitoring, April 21 and May 1, 2025.

- CDM Smith completed the NYSDEC Periodic Operations Visit Form for the onsite SSDS once during this compliance period. These forms were completed concurrently with the annual sampling of the groundwater monitoring well network in July 2024.
- CDM Smith performed monthly inspection and sampling of the GWTS when the system was active between February 5 and December 20, 2024. CDM Smith provided written documentation of all inspection, maintenance, and sampling activities that occurred at the GWTS during the periods of active pumping. Maintenance and monitoring activities of the GWTS are described in the ECs section above.

- CDM Smith performed monthly inspection of the SSDS, providing written and photographic documentation of the pressure gauge readings. Maintenance activities for the SSDS are described in the ECs section above. SSDS monitoring, maintenance and reporting were met for this compliance period.

Preparation and submittal of this PRR documents current conditions, changes from historical conditions, and recommendations for maintenance or upgrades to optimize ongoing treatment/monitoring activities. Thus, fulfilling the requirement for periodic Site reporting.

## 2.2 EC/IC Certification

Certification of the Site ICs is to be completed upon acceptance of the PRR by the NYSDEC Project Manager.

Certification of the Site ECs can be fully completed at this time, due to effective operation of all site ECs throughout the current compliance period. CDM Smith is issuing this PRR with an executed Certification of Site ECs.

## 3.0 Operation and Maintenance

This section summarizes the O&M tasks completed during the reporting period, component performance, deficiencies (if applicable), and established conclusions regarding Site O&M.

Historically, three treatment systems have been in use at the Site since its inception in 1984. The GWTS currently in operation was constructed in 2007.

### 3.1 Groundwater Treatment System O&M Plan

#### 3.1.1 Groundwater Treatment System Configuration

The primary elements of the GWTS currently in operation are outlined in **Table 3.1**.

**Table 3.1 Groundwater Treatment System Configuration (December 2023 – December 2024)**

Component	Quantity
ProControl A1 (Cellular) EOS Model A1 programmable logic controller (PLC) main system controller	1
Uninterruptible power supply/surge suppressor unit	1
MEAS KPSI 700 submersible hydrostatic level transducers (one for each extraction well)	3
OMEGA miniature temperature transmitter	1
Air stripper analog pressure sensor	1
Environmental Systems Inc. EZ-Tray 16.6SS 120 gpm/850 cfm air stripper	1
Four-inch Grundfos SP 25S 25 gpm pumps (one for each extraction well)	3
Four-inch 1hp, single-phase, two wire motors	3
Air stripper sump	1
Signet 8550 flow transmitters (one for each extraction well and one for combined influent)	4
Signet 2536 Rotor-X Paddlewheel flow sensors (one for each extraction well)	3
New York Blower Company air stripper blower	1
Cutler-Hammer Model CH30B3200R, 200A Main, 3 Phase, 120/208V 30 Space 3R circuit breaker panel	1
Hubbell-Weigmann Model N12302408 MCP enclosure with backplane	1
Five-volts of direct current (VDC) power supply for digital inputs	1
24 VDC power supply for analog sensors	1
Dura-Pulse 240V 10 HP VFD (for air stripper blower)	1
Metal system enclosure complete with TriCorp 240/208V, 4,8 kw, 15,086 BtuH electric utility heater, ventilation fan, and overhead fluorescent light fixture	1

The installed equipment, system functions, programming set-up, piping and instrumentation diagram (P&ID), and product cut sheets for the GWTS are in the O&M Manual 2021 included as Appendix G to the 2021 SMP. This manual is an update to the original manual created in 2010 and later updated in 2016 and implemented as part of the 2017 SMP that covered the PLC components and functions.

Further clarifications of system parts, current equipment and appurtenances, and updated O&M requirements were submitted as the third version of the O&M manual in the 2021 SMP.

The 2024 O&M activities are summarized in **Figure 3.1**.

### 3.1.2 Groundwater Treatment System O&M Procedures

Routine inspections and maintenance are conducted monthly by CDM Smith on the groundwater treatment system to assure that all elements are running at maximum efficiency. Monthly GWTS O&M reports for this compliance period can be found in **Appendix B**. All maintenance activities conducted at the Site during 2024 are presented in **Figure 3.1**.

Site vegetation is routinely addressed to comply with the Site health and safety plan and to allow for access to the treatment system trailer. The area is prone to poison ivy, brambles, and tangles. Large branches and entire trees have been observed falling/leaning onto the surrounding tree canopy near monitoring wells, particularly near the River. These loose large branches and trees also pose a potential health and safety risk to field personnel performing annual groundwater sampling at the Site.

Equipment failures or damage, if applicable, are repaired by CDM Smith as soon as possible and reported to NYSDEC.

### 3.1.3 Groundwater Treatment System O&M Activities

CDM Smith performed monthly O&M visits to the GWTS during the December 2023 through December 2024 compliance period. The purpose of these visits was to inspect the equipment for obvious leaks, corrosion, fouling of the air stripper trays, pressure loss in the blower, and other potential operational issues.

Additional general system maintenance during this reporting period is included in **Table 3.2**.

**Table 3.2 2022 Groundwater Treatment System Maintenance**

Date	Maintenance
9/11/2024	Environmental Assessment and Remediations (EAR), Inc. arrives onsite to repair the vent stack for the GWTS. The system was manually shut down for approximately 3 hours and 10 minutes to ensure hazards associated with GWTS operation (such as noise and VOCs being vented through the stack) would not interfere with the work. There were limited interruptions to the system and overall effectiveness of the treatment.
9/13/2024	CDM Smith arrived at the GWTS to check why daily update emails had not been sent for 9/12/2024 and 9/13/2024. The system was shut down to reset the ProControl Unit which proved unsuccessful. The system was shut down for approximately 1 hour. There were limited interruptions to the system and overall effectiveness of the treatment.

#### 3.1.3.1 System Power O&M

The system experienced power outages during 2024 that impacted the overall run time and treatment volume. **Table 3.3** outlines the system shutdown dates and explanations with further details provided in this section.

**Table 3.3 2024 Groundwater Treatment System Power Failure**

Date	Explanation
1/9/2024	System shut down due to sump high-high alarm. A remote restart was performed on January 12, 2024. System was down for approximately four days.
1/12/2024	System was shut down due to power outage caused by a storm. NYSEG successfully brought power back online the morning of January 13, 2024. A remote restart was performed on January 15, 2024. System was down for approximately one day.
3/23/2024	System shut down due to sump high alarm. A remote restart was performed on March 25, 2024. System was down for approximately two days.
5/23/2024	System shut down due to sump high alarm. A remote restart was performed on May 24, 2024. System was down for approximately one day.
6/26/2024	System shut down due to loss of power. A remote restart was performed on June 27, 2024. System was down for approximately one day.
7/17/2024	System shut down due to loss of power. A remote restart was performed on July 28, 2024. System was down for approximately one day.
9/3/2024	System shut down due to loss of power. A remote restart was performed on September 4, 2024. System was down for approximately one day.
9/11/2024	Environmental Assessment and Remediations (EAR), Inc. arrives onsite to repair the vent stack for the GWTS. The system was manually shut down for approximately 3 hours and 10 minutes to ensure hazards associated with GWTS operation (such as noise and VOCs being vented through the stack) would not interfere with the work. There were limited interruptions to the system and overall effectiveness of the treatment.
9/13/2024	CDM Smith arrived at the GWTS to check why daily update emails had not been sent for 9/12/2024 and 9/13/2024. The system was shut down to reset to ProControl Unit which proved unsuccessful. The system was shut down for approximately 1 hour. There were limited interruptions to the system and overall effectiveness of the treatment.

There were nine instances during 2024 where the system was shut down due to power outages, sump high-high alarms, or system repairs. In most cases the system was back online within 24 hours and in all cases there was no significant impact to GWTS treatability.

### 3.1.3.2 Email Reports Operations and Maintenance

The GWTS Pro Control system was designed to automatically generate a daily status report, which includes system status and air pressure and temperature, flow rates and cumulative flow for extraction wells ERT-EW-5, ERT-EW-6, and ERT-EW-7.

The ProControl unit stopped reporting regularly during the current compliance period, beginning September 12, 2024. CDM Smith has not observed any major downtime or system shutdowns in between monthly O&M visits, therefore there is no recommendation to replace the unit at this time.

## 3.2 Groundwater Monitoring Well O&M Plan

The Site contains approximately 49 groundwater monitoring wells, 3 groundwater extraction wells, 21 groundwater monitoring wells that were destroyed or removed, and 10 groundwater monitoring wells which were unable to be located during inspections. CDM Smith inspects the groundwater monitoring network annually.

The inspection documents the condition of each well and any features or damage that may impact functionality. CDM Smith reports groundwater well concerns to NYSDEC.

Groundwater monitoring was not conducted during the December 2023 through December 2024 compliance period, but was conducted as part of the Injection Pilot Study performance monitoring between April 21 and May 1, 2025.

### 3.2.1 Groundwater Monitoring Well O&M Activities

CDM Smith inspected the groundwater monitoring well network in accordance with the SMP in 2025. CDM Smith identified damage and recommendation on future actions to the wells, presented in **Table 3.4**.

**Table 3.4 2024 Groundwater Monitoring Well Damage**

Monitoring Well ID	Description of Damage	Recommendation
DGC-1I	Concrete pad cracked at grade	No repairs required.
DGC-1S	Outer cap broken	No repairs required.
DGC-6I	Subcontracted tree removal and determined no damage to the inner or outer cases. No further repairs required.	
DGC-11S	Inner casing bent	Recommend decommissioning.
DGC-11I	Inner casing bent	Recommend decommissioning.
DGC-13S	Missing well cap	No repairs required.
DGC-17I	Inner casing bent	Decommissioned and reinstalled January 20-23, 2025.
DGC-19S	Destroyed during excavation activities	Reinstalled January 20-23, 2025.
DGC-19I	Destroyed during excavation activities	Reinstalled January 20-23, 2025.
DGC-19D	Destroyed during excavation activities	Reinstalled January 20-23, 2025.
ERT-5S	Destroyed	Recommend decommission and install replacement well.
ERT-8S	Damaged	Recommend decommissioning.
ERT-8I	Damaged	Recommend decommissioning.
ERT-8D	Damaged	Recommend decommissioning.
ERT-10I	Destroyed during excavation activities	Reinstalled January 20-23, 2025.
ERT-10D	Destroyed during excavation activities	Reinstalled January 20-23, 2025.
TH-6	Destroyed, PVC riser missing	Recommend decommission and install replacement well.
TH-11A	Destroyed	Recommend decommission and install replacement well.
TH-11B	Destroyed	Recommend decommission and install replacement well.
TH-13	Destroyed	Reinstalled January 20-23, 2025.

Five of the destroyed monitoring wells (DGC-19S, DGC-19I, DGC-19S, ERT-10I, and ERT-10D) were located near the former Brady Stannard dealership, downgradient of the Subaru dealership and onsite GWTS extraction wells. These wells aided in the evaluation of the GWTS to effectively monitor the contaminant plume migrating from OU-1. These five monitoring wells were replaced on January 20-23, 2025, in advance of the baseline sampling as part of the Injection Pilot Study.

### 3.3 Sub-Slab Depressurization System O&M Plan

Brewster Subaru dealership contains five SSDS fans. CDM Smith inspects the system annually. The annual inspection documents the condition of all fans, gauges, piping, fittings, and building floors and walls. CDM Smith logs the gauge readings for each fan, takes photographs, and records the inspection data in the Periodic Operations Visit Form. The forms completed during 2024 inspections are in **Appendix A**.

At the request of EPA, beginning in April 2018 LaBella included motor sound checks and visual inspection of the magnehelic meters during the monthly inspections. Written observations have been included in each of the monthly monitoring reports since that time. Starting in 2020, photographs of each of the magnehelic meters during the monthly inspections are included in the monthly inspection reports.

#### 3.3.1 Sub-Slab Depressurization System O&M Activities

CDM Smith performed monthly inspections and recorded written and photographic documentation of the sub-slab depressurization system (SSDS) magnehelic pressure gauges throughout the current compliance period. The continued operation of the SSDS prevented ingestion, inhalation, or any contact with contaminated material within the Subaru dealership building in 2024. No notable events occurred during this compliance period.

### 3.4 POET System O&M Plan

Brewster Subaru dealership contains one POET system, to treat groundwater pumped as a source of potable water before entering the building's piping to the taps. The system is inspected, maintained, and monitored by NYSDEC.

#### 3.4.1 POET System Configuration

The primary elements of the POET system currently in operation are outlined in **Table 3.5**.

**Table 3.5 POET System Configuration (December 2023 – December 2024)**

Component	Quantity
PENTAIR Big Blue ¾-inch NPT Sediment Filter	1
Clack 12x52 Tank with GAC	2
Ball Valve	2
VIQUA S8Q-PA UV Treatment	1
NEPTUNE T-10 ¾-inch Flowmeter	1
Flush Tap	2
Sampling Port	3

### **3.4.2 POET System O&M Activities**

Installation and continued operation, maintenance and monitoring of the POET system has prevented ingestion, inhalation, or any contact with contaminated groundwater during the current compliance period.

**Figure 3.1 Operations and Maintenance Project Calendar  
 Periodic Review Report 2024  
 Operations and Maintenance Activities Conducted in 2024  
 Brewster Village Well Field - Site 3-40-012**

Activity	January	February	March	April	May	June	July	August	September	October	November	December	Notes
<b>CDM Smith</b>													
GWTS Restart			X		X	X	X		X				
PRR Due												X	
Groundwater Well Inspection						X							
SSDS Inspection							X						
Site-Wide Inspection							X						
Groundwater Well Gauging													
Goundwater Well Sampling													
Residential Tap Sampling													As-needed
GWTS Sampling		X	X	X	X	X	X	X	X	X	X	X	
O&M Report		X	X	X	X	X	X	X	X	X	X	X	
Site Maintenance													
Pump Replacement													As-needed
Air Stripper Tray Cleaning (GWTS)													As-needed
VFD Filter Replacement													As-needed
SSDS Hose Replacement/Cleaning													As-needed
Replace SSDS Fan													As-needed
SSDS Inspection		X	X	X	X	X	X	X	X	X	X	X	
<b>ALS Environmental</b>													
Analytical Report & EDDs		X	X	X	X	X	X	X	X	X	X	X	
<b>Village of Brewster</b>													
Quarterly Analytical Report	X			X			X			X			
<b>NYSDEC</b>													
POET System Inspection, Maintenance and Sampling													
<b>Laboratory</b>													
GW Well Analytical Report & EDDs													
<b>Vali-Data of WNY</b>													
Third-Party Analytical Validation													

## 4.0 Monitoring Plan

This PRR assesses whether the Site remedy has been managed as set forth in the ROD (Appendix A to the 2021 SMP), ESD (Appendix B to the 2021 SMP), and SMP.

### 4.1 Monitoring Plan Requirements, Compliance, and Evaluation

**Table 4.1** presents monitoring requirements versus actual compliance dates for the current compliance period of December 2023 through December 2024. As shown below, groundwater monitoring well sampling and water level measurements were not compliant but GWTS monitoring was fully compliant throughout 2024, with sampling occurring during the period of active GWTS operation.

**Table 4.1 2024 Monitoring Plan Compliance**

Activity	Required Frequency (X)		Compliance Dates 2024
	Monthly	Annually	
GWTS System Sampling	X		February, March, April, May, June, July, August, September, October, November, December
Groundwater Monitoring Well Sampling		X	April 22 and May 1, 2025
Water Level Monitoring		X	April 21, 2025

#### 4.1.1 Groundwater Treatment System Monitoring Requirements

The ProControl software installed on the GWTS is designed to submit daily faxes reporting the flow and total volume treated for each extraction well. The fax system is out of service; therefore, CDM Smith reports these parameters through remote access via email or by manually recording site O&M readings. This information is provided to CDM Smith to be maintained in project records.

CDM Smith records the system parameters onsite onto a System Check Log Sheet (**Appendix B**) during monthly O&M activities. CDM Smith also samples each extraction well, the combined influent, and the treated effluent from the groundwater treatment system. The samples are delivered to Australian Laboratory Services (AES) in Rochester, NY for chemical analysis. All samples are analyzed by EPA Method 624.1 Purgeable Volatile Organic Compounds (VOCs). ALS submits the reports and electronic data deliverables (EDDs) to CDM Smith by email for review. CDM Smith subsequently submits the EDDs to NYSDEC's Environmental Information Management System (EIMS) for upload to the statewide database.

Historically, the GWTS has complied with Effluent Limitations and Monitoring Requirements set by NYSDEC Division of Water (DOW) and enforced by NYSDEC DER. Effluent limitations from the onsite GWTS were lowered in June 2020 and the current effluent limits are 5 µg/L for cDCE and TCE, 2 µg/L for VC, and 0.7 µg/L for PCE (**Appendix C**). Although there were two detections for PCE during the current compliance period, there were no instances where the SPDES Permit Limits were exceeded for PCE, as summarized below. TCE, cDCE and VC were not detected in the combined effluent during this compliance period.

**Table 4.2 Summary of SPDES Limit Exceedances**

Date	Explanation
7/19/2024	PCE in the combined effluent (0.340 J µg/L) was detected below the SPDES Permit limit of 0.7 µg/L and below the AWQS limit 5 µg/L for PCE. TCE, cDCE and VC were not detected in the combined effluent.
8/21/2024	PCE in the combined effluent (0.277 J µg/L) was detected below the SPDES Permit limit of 0.7 µg/L and below the AWQS limit 5 µg/L for PCE. TCE, cDCE and VC were not detected in the combined effluent.

## 4.1.2 Evaluation of Groundwater Treatment System Monitoring

### 4.1.2.1 Pumping Rates

The GWTS ProControl system automatically records pumping rates for each extraction well. The system measures instantaneous pumping rates in gallons per minute (gpm), and cumulative pumping volumes. The combined influent flowmeter is broken; however, the total combined volume pumped by the system is adequately calculated by adding the volumes from the three extraction wells. Pumping volumes and other information collected on the GWTS is reported in **Appendix E** (Tables 1 through 3).

The system pumped and treated approximately 10,088,704 gallons of water between February 5 and December 20, 2024. The GWTS periodically lost power throughout 2024, but rarely for longer than 24 hours. Wells ERT-EW-5, ERT-EW-6, and ERT-EW-7 pumped at average rates of 17 gpm, 5 gpm, and 16 gpm, respectively, in 2024. Wells ERT-EW-5, ERT-EW-6, and ERT-EW-7 pumped 857,829 gallons, 2,188,593 gallons, and 7,042,282 gallons of groundwater, respectively, in 2024.

### 4.1.2.2 Groundwater Treatment System Analytical Results

The 2024 analytical data from the GWTS sampling is summarized in **Table 4.3**. Comparison to historical values are discussed below.

**Table 4.3 GWTS Analytical Summary 2024 COC Concentration Averages**

Sample Location	2024 Average Concentration (µg/L)			
	cDCE	TCE	PCE	VC
ERT-EW-5	14.38	3.01	708.18	5.66
ERT-EW-6	4.37	1.34	278.56	0.38
ERT-EW-7	8.68	2.98	39.75	0.23
Combined Influent	9.92	2.97	298.14	2.08
Effluent	ND	ND	0.309	ND

**Table 4.3** shows the average concentration of all COCs from 2024, in comparison to NYSDEC DOW effluent limitations of 5 µg/L for cDCE and TCE, 2 µg/L for VC, and 0.7 µg/L for PCE. As compared to prior years, average concentrations decreased for cDCE in ERT-EW-5, ERT-EW-6 and ERT-EW-7, and for TCE in ERT-EW-5 only. The average concentration for cDCE increased in the combined influent during 2024, and for TCE in ERT-EW-6, ERT-EW-7 and the combined influent. Average concentrations increased for PCE and VC in all three wells and the combined influent. The average effluent concentrations for PCE detections in 2024 were below the 2020 SPDES Permit Equivalent limit of 0.7 µg/L. All other COCs remained nondetect in the effluent during the current compliance period.

**Appendix E** Table 2 provides a sample results summary for the system influent, effluent, and each extraction well from March 2008 through December 2024. **Appendix F** presents effluent and combined influent historical monthly GWTS COC concentration trend plots for each well for all detections between March 2008 and April/May 2025. A summary of detections by CVOC for the current compliance period is bulleted below:

- Between February and December 2024, the GWTS combined influent cDCE concentration fluctuated, with a mean concentration of 9.92 µg/L which is slightly lower than historical averages. The highest concentration was reported as 14.2 µg/L on September 19, 2024. The lowest concentration was reported in February 2024 at 4.98 µg/L.
- TCE concentrations were detected consistently throughout this compliance period. The highest TCE concentration was reported on November 18, 2024 at 5.75 µg/L and the lowest concentration was reported on May 13, 2024 at 2.17 µg/L. The 2024 average TCE concentration was 2.97 µg/L, in line with historical averages.
- The PCE concentration in the combined influent fluctuated during this compliance period, reporting a low of 19.5 µg/L in February 2024 to a high of 428 µg/L in March 2024. The 2024 average PCE concentration was 298 µg/L, in line with historical averages. PCE has been detected in the combined influent every sampling period between 2008 and December 2024.
- VC concentrations also fluctuated in the combined influent reporting a low of 0.27 µg/L in February 2024 to a high of 4.01 µg/L in September 2024. The 2024 average VC concentration was 2.08 µg/L which is roughly in line with historical averages.

### 4.1.3 Groundwater Monitoring Well Requirements

#### 4.1.3.1 Groundwater Monitoring Well Sampling

A network of 83 monitoring wells was initially installed onsite to monitor up- and down-gradient groundwater conditions (see **Figure 1.3**). The wells were installed during multiple investigations north and south of the Croton River. Most of the wells were named in association with their depth; shallow (S) (two to 17 feet bgs), intermediate (I) (13-40 feet bgs), and deep (D) (41-105 feet bgs).

Groundwater monitoring wells are sampled annually in accordance with the SMP. CDM Smith collects the groundwater samples using low flow sampling techniques until water quality parameters stabilize.

Groundwater monitoring was not conducted during the December 2023 through December 2024 compliance period, but samples were collected in April and May 2025 as part of the Injection Pilot Study performance monitoring.

The 2025 samples were submitted to ALS Environmental for analysis by EPA Method 8260D VOCs by Gas Chromatography/Mass Spectrometry (GC/MS).

Analytical results are returned to CDM Smith in NYSDEC Analytical Services Protocols (ASP) Category B format. The analytical results are compared to NYSDEC TOGS 1.1.1 and the NYS Drinking Water Standard (DWS) (NYSDEC 1998).

### 4.1.3.2 Groundwater Monitoring Well Water Level Monitoring

CDM Smith gauges the groundwater monitoring wells annually. The depth to water within each well to be sampled is measured by a water level probe from the top of well casing. All water level data is recorded in the field book. CDM Smith uses the recorded water depths to estimate the direction of groundwater flow across the Site. On April 21, 2025, CDM Smith completed a round of synoptic water level measurements at 49 groundwater monitoring wells, in accordance with the most current SMP. Nine (9) wells were not gauged (DGC-3S, ERT-1S, DGC-3I, ERT-10IA, ERT-1I, ERT-3I, ERT-5I, ERT-6I, ERT-EW-7). CDM Smith measured the depth to well bottom, depth to the water table and conducted photoionization detector (PID) readings of the well headspace where inner caps were in place upon arrival. All results were recorded in the field books (Appendix D).

The shallow monitoring wells are screened within the upper 12 feet of sediments, consisting primarily of finer grained alluvium and upper glacial outwash materials. The only exception is DGC-5S, which is screened from 8.7 to 18.7 feet bgs. The intermediate wells are screened between 15 and 73 feet bgs, within sediments consisting primarily of coarser grained glaciofluvial sand and gravel. The exception is DGC-20I, screened from 1.7 to 11.7 feet bgs. The groundwater elevation data collected in December 2022 and August 2023 April and May 2025 is summarized in Table 4 of **Appendix E**.

Figures 4-5a, 4-5b, 4-5c display the groundwater contours for the shallow, intermediate, and deep wells, respectively. Water level measurements and groundwater flow are presented below by overburden aquifer.

#### *Shallow Aquifer*

Fourteen (14) wells were gauged during the synoptic water level event on April 21, 2025. Groundwater elevations ranged from 330.1717 feet above mean sea level (ft amsl) at DGC-13S to 334.70 ft amsl at ERT-8S. The Village of Brewster Well Field and the onsite GWTS appear to influence offsite shallow aquifer groundwater flow, there are two groundwater flow gradients flowing from the west and from the south to the northeast towards the Village of Brewster Well Field.

The western flow gradient is the steepest, flowing generally east from DGC-16S and then bending northeast towards DGC-1S, adjacent to the Village of Brewster Well Field. The southern flow gradient flows from the upgradient well cluster (DGC-14S) northeast towards DGC-1S, adjacent to the Village of Brewster Well Field.

#### *Intermediate Aquifer*

Intermediate depth wells may or may not be in the same unconfined aquifer as the shallow wells; sufficient boring logs are not available to make this determination. Twenty (20) wells were gauged during the synoptic event and groundwater elevations ranged from 336.15 ft amsl at DGC-18I to 330.72 ft amsl at TH-7. The Village of Brewster Well Field and the GWTS extraction well network appear to influence the intermediate aquifer groundwater flow. Groundwater levels show hydraulic gradients towards both well networks.

DGC-18I is the high point of the intermediate unconfined aquifer with groundwater flow radiating outwards to the Village of Brewster Well Field to the northeast and the GWTS extraction wells to the southwest.

### *Deep Aquifer*

Nine wells were gauged during the synoptic water level event on April 21, 2025. Groundwater elevations range from 322.06 ft amsl (CDM-3) to 334.82 ft amsl (DGC-19DA). The deep unconfined groundwater flow does not appear influenced by the Village of Brewster Well Field in the wooded area north of the site. Rather deep unconfined groundwater flow follows topography towards the River. Onsite groundwater may be influenced by the GWTS extraction wells, it appears groundwater flows towards the parking lot north of the onsite building.

No significant differences in groundwater levels are evident, compared to previous years. In August 2023, CDM Smith measured water levels at 39 wells, where groundwater elevations ranged from 330.72 ft amsl (TH-7) to 332.82 ft amsl (ERT-EW-6). During the December 2022 sampling event water levels were measured from 26 wells and groundwater elevations ranged from 316.52 ft amsl (GMS-02) to 331.72 (ERT-EW-6). Seasonal fluctuations may account for any variations in groundwater elevations, as sampling events took place during different times of the year.

#### **4.1.4 Evaluation of Groundwater Monitoring**

The onsite groundwater monitoring wells were installed to depths ranging from six to 106 feet below ground surface (bgs). The wells are used to monitor plume migration and evaluate groundwater treatment effectiveness. The SMP identifies a list of wells to be sampled annually.

Groundwater monitoring was not conducted during the December 2023 through December 2024 compliance period, but was completed in April and May 2025 as part of the Injection Pilot Study performance monitoring.

CDM Smith collected groundwater samples from 46 groundwater monitoring wells between April 22 and May 1, 2025. The April and May 2025 sampling event included the collection of samples from nine shallow (S) (2-17 feet bgs), 28 intermediate (I) (13-40 feet bgs), and nine deep (D) (41-105 feet bgs) groundwater monitoring wells. All groundwater monitoring wells were sampled by low-flow method in compliance with the Field Activities Plan (FAP). Samples were delivered to ALS Environmental for VOC analysis via EPA Method 8260D by GC/MS.

**Appendix E**, Tables 5B through 5C provide a summary of the analytical results for the April to May 2025 groundwater well sampling.

**Appendix F** includes historical groundwater analytical result plots for COCs through May 2025 and **Appendix G** includes historical COC isoconcentration plots.

PCE is the most prevalent groundwater contaminant at this site. The isoconcentration maps for April and May 2025 PCE concentrations are presented by overburden aquifer: shallow, intermediate and deep (**Figure 4-1a**, **Figure 4-1b**, **Figure 4-1c**, respectively).

### *Shallow Aquifer*

Nine monitoring wells screened in shallow (S) overburden aquifer (2-17 feet bgs) were sampled during the April and May 2025 sampling event. The only detection for PCE in the shallow unconfined unit was ERT-1S (900 µg/L), located in the parking lot north of the onsite building. This indicates the onsite

extraction well network is providing hydraulic control of the onsite shallow unconfined unit and PCE contamination is not migrating north.

### *Intermediate Aquifer*

The intermediate aquifer is most contaminated and 2025 sampling results indicate five major contaminant areas for this constituent: one area northwest of the River, one area northeast of the River, one area southwest of the River, one area emanating from beneath the onsite building, and the fourth area beneath the Former Dry Well located to the east of the onsite building. In previous years, the area north of the River appeared to be one combined plume with two areas of elevated concentrations. Beginning in 2021, the plume split into two areas which was observed again in 2025. The northwest River area has a maximum concentration of 10.0 µg/L at CDM-3 that radiates south to DGC-6I (2.4 µg/L) and DGC-16I (2.8 µg/L); southeast to DGC-3I (1.2 µg/L); and east to DGC-9I (2.9 µg/L) and DGC-8I (0.76 µg/L). The northeast area consists of DGC-1I, reporting 7.6 µg/L. The onsite PCE area is likely emanating from beneath the onsite building and travels north toward ERT-EW-5 (860 µg/L), ERT-1I (150 µg/L), ERT-3I (88 µg/L), ERT-EW-6 (120 µg/L), and ERT-EW-7 (100 µg/L). PCE was detected at 400 µg/L at ERT-6I, near the former dry well. PCE contamination does not appear to extend south of the onsite building.

### *Deep Aquifer*

Nine monitoring wells screened in the deep overburden aquifer were sampled during the April and May 2025 sampling event. The highest PCE detection during the sampling event was at IPS-MW-02D (1,300 µg/L), located in the parking lot north of the onsite building. All PCE detections in the deep groundwater aquifer were limited to the area directly underneath the onsite building or the parking lot immediately north. PCE was not detected in any of the deep aquifer wells sampled north of the site. This indicates the onsite extraction well network is providing hydraulic control of the onsite deep unconfined unit and PCE contamination is not migrating north.

cDCE is the second most prevalent groundwater contaminant at this site. The isoconcentration maps for 2025 cDCE concentrations are presented by overburden aquifer: shallow, intermediate, and deep (**Figure 4-3a, Figure 4-3b, Figure 4-3c**, respectively).

### *Shallow Aquifer*

The shallow unconfined unit contains two detections of cDCE at DGC-19SA (51 µg/L), located in front of the former Brady Stannard dealership building, and at ERT-1S (4500 µg/L), the highest cDCE detection during the sampling event, located in the parking lot north of the onsite building. No detections of cDCE were recorded further north, indicating the onsite extraction well network is providing hydraulic control of the onsite shallow unconfined unit and cDCE contamination is not migrating north.

### *Intermediate Aquifer*

The intermediate aquifer hosts three major areas of concern: one area straddling the River extending to the former Brady Stannard dealership, one area emanates from beneath the onsite building, and the third area is concentrated around the Former Dry Well to the east of the onsite building. The River area has a maximum concentration of 27 µg/L at DGC-7I that radiates north to DGC-9I (8.9 µg/L), northwest to TH-7 (0.96 µg/L) and CDM-3 (0.35 µg/L), west to DGC-6I (3.7 µg/L), and southwest to DGC-17IA (6.8 µg/L) and ERT-10IA (2.9 µg/L). The second area likely emanates from beneath the onsite building, with a maximum concentration of 80 µg/L at IPS-MW-02I, and travels north where it is captured by the GWTS

extraction wells; specifically: ERT-EW-5 (13 µg/L), ERT-EW-6 (4.6 µg/L), and ERT-EW-7 (4.9 µg/L). In the third area near the Former Dry Well cDCE was detected at 310 µg/L at ERT-6I, but does not extend further. The cDCE at these locations may represent degradation products of PCE. Due to the removal of wells ERT-10I and DGC-19I during excavation activities at the former Brady Stannard dealership, it is unknown if the >1 µg/L plume is now fully separated into two plumes. Historically, a corridor connecting the two areas existed along ERT-10I and DGC-19I. Groundwater containing cDCE above the cleanup standard of 5 µg/L does not appear to extend north to the municipal well field or south of the onsite building.

#### *Deep Aquifer*

All cDCE detections in the deep groundwater aquifer were limited to the area directly underneath the onsite building, with a detection of 24 µg/L at IPS-MW-02D, and the parking lot immediately north, with 23 µg/L at IPS-MW-03. There were no detections of cDCE in any of the deep aquifer wells sampled north of the site, indicating that the onsite extraction well network is providing hydraulic control of the onsite deep unconfined unit and cDCE contamination is not migrating north.

TCE is the third most prevalent groundwater contaminant at the Site. The isoconcentration maps for TCE concentrations in 2025 are presented by overburden aquifer: shallow, intermediate, and deep (**Figure 4-2a, Figure 4-2b, Figure 4-2c**, respectively).

#### *Shallow Aquifer*

The greatest concentration of TCE onsite, and only detection in the shallow unconfined unit, was 830 µg/L at ERT-1S, located in the parking lot north of the onsite building. This indicates the onsite extraction well network is providing hydraulic control of the onsite shallow unconfined unit and TCE contamination is not migrating north.

#### *Intermediate Aquifer*

The intermediate aquifer contains four major contaminant areas: one area emanates from the former Brady Stannard dealership extending north to the River, one area straddles the River just south of the Village Well Field, one area emanates from beneath the onsite building, and the fourth area is concentrated around the Former Dry Well to the east of the onsite building. The area emanating from the former Brady Stannard building has a maximum concentration of 1.6 µg/L at ERT-10IA and extends north to DGC-6I (1.4 µg/L). The River area extends from DGC-9I (1.6 µg/L) northwest to CDM-3 (1 µg/L). The area emanating from beneath the onsite building, has a maximum concentration of 38 µg/L at IPS-MW-02I, and extends south to IPS-MW-04I (10 µg/L), and north to ERT-EW-5 (13 µg/L), ERT-1I (2.8 µg/L), ERT-EW-6 (1.9 µg/L), ERT-5I (1.9 µg/L), and ERT-EW-7 (1.8 µg/L). The area near the Former Dry Well had a single detection at ERT-6I of 100 µg/L, with no detections extending north to the municipal well field or south of the onsite building.

#### *Deep Aquifer*

Contamination in the deep aquifer exists in the parking lot to the north of the onsite building, emanating from IPS-MW-02D (8.2 µg/L) to IPS-MW-01 (2.5 µg/L), IPS-MW-03 (5.1 µg/L), and IPS-MW-04D (0.4 µg/L). There were no detections of TCE in any of the deep aquifer wells sampled north of the site, indicating that the onsite extraction well network is providing hydraulic control of the onsite deep unconfined unit and TCE contamination is not migrating north.

VC was detected in multiple groundwater samples from the shallow, intermediate, and deep aquifers near the onsite building. The number of detections and the concentrations of VC in 2025 are a significant increase from previous years. The isoconcentration maps for TCE concentrations in 2025 are presented by overburden aquifer: shallow, intermediate, and deep (**Figure 4-4a**, **Figure 4-4b**, **Figure 4-4c**, respectively).

#### *Shallow Aquifer*

The shallow unconfined unit contained two detections that hold the greatest concentrations of VC at the site. The greatest concentration of VC detected during the sampling event was 1400 µg/L at ERT-1S, located in the parking lot north of the onsite building. The contamination emanates north toward DGC-19SA (93 µg/L). No detections were reported north to the municipal well field or south of the onsite building.

#### *Intermediate Aquifer*

Two major contamination areas exist in the intermediate aquifer: one area emanates from underneath the onsite building, and the other is concentrated around the Former Dry Well to the east of the onsite building. The area underneath the building has a maximum concentration of 10 µg/L at IPS-MW-04I and extends north to IPS-MW-02I (3.9 µg/L), ERT-EW-5 (1 µg/L), ERT-EW-6 (0.8 µg/L), and ERT-EW-7 (0.61 µg/L). The area near the Former Dry Well has a singular detection of 15 µg/L at ERT-6I.

#### *Deep Aquifer*

Contamination in the deep aquifer exists in the western side of the parking lot to the north of the building, emanating from IPS-MW-02D (10 µg/L) to IPS-MW-01 (5 µg/L), IPS-MW-04D (0.4 µg/L), and IPS-MW-03 (0.29 µg/L). There were no detections of VC in any of the deep aquifer wells sampled north of the site, indicating that the onsite extraction well network is providing hydraulic control of the onsite deep unconfined unit and VC contamination is not migrating north.

It appears that there are four remaining contaminant areas at the Site: the area beneath the Subaru dealership extending north to the extraction wells for the groundwater treatment system, the Former Dry Well area to the east of the dealership building, the area northwest of the former Brady Stannard dealership, extending north across the River to TH-7, and a small area northeast of the River around DGC-1I. This is consistent with the analytical results from previous annual sampling activities.

### **4.1.5 Quality Control/Quality Assurance for Groundwater Samples**

CDM Smith collected one duplicate sample for every 20 groundwater samples in compliance with the Quality Assurance Project Plan (QAPP). One field and one trip blank per sample cooler were submitted for analysis to verify that no samples were contaminated by field equipment or enroute to the laboratory. Field blanks are generated by running lab-provided deionized water through the polyethylene and silicone tubing and collected in a laboratory-preserved 40 ml vial for analysis.

The analytical results for field duplicate ERT-906I were consistent with original sample ERT-6I.

The analytical results for field duplicate ERT-904I were consistent with original sample ERT-4I.

The analytical results for field duplicated ERT-EW-905 were consistent with the parent sample from ERT-EW-5.

One trip blank was submitted with sample coolers for the 2022 sampling event and analyzed for VOCs. Acetone, Chlorobenzene, and Methylene Chloride were detected. These compounds were qualified as undetected at or below the reporting limit and estimated high above the reporting limit in associated samples.

Two trip blanks were submitted with the sample coolers for the 2023 event. There were no detections in the trip blank submitted for August 21, 2023 sampling. Chloroform was detected in the trip blank submitted with the August 22, 2023 sampling. Chloroform was qualified as undetected at or below the reporting limit and estimated high above the reporting limit in associated samples.

#### 4.1.6 Data Validation

At the direction of NYSDEC, validation by an independent data validator was not required to be performed on the analytical data for the 2022 and 2023 annual groundwater sampling events.

## 4.2 Evaluation of Brewster Village Well Field Monitoring

The municipal water treatment system is owned and monitored by the Village of Brewster on a quarterly basis.

In July and October 2024, chloroform was detected from the drinking water at the Pump House and Well Field sampling locations. At the Well Field, concentrations ranged from 4.6 µg/L (October 2024) to 5.1 µg/L (July 2024). At the Pump House, concentrations ranged from 9.5 µg/L (July 2024) to 9.8 µg/L (October 2024).

During the sampling events conducted by CDM Smith, one well had chloroform detections that exceeded the NYS AWQS in 2022 with a concentration of 6.7 µg/L at ERT-EW-5, and two wells had exceedances ranging from 8 µg/L in ERT-1S to 10 µg/L in ERT-6I in 2023. In April and May, 2025, there were no chloroform detections from the 45 groundwater monitoring wells that were sampled.

The installation of new wells of shallow, intermediate, and deep depths allow for a more comprehensive understanding of contaminant concentrations at the site. Beneath the Subaru dealership building, concentrations of PCE, TCE, cDCE, and VC exist in significant amounts. The greatest concentrations exist just outside the north side of the building, and extend north towards the former Brady Stannard dealership. The dry well area behind the Subaru dealership building hosts considerable concentrations of all four contaminants. The former Brady Stannard dealership property contains the greatest concentrations just north of the road, as contaminants emanated north from the Subaru dealership.

Site contaminants of concern PCE and cDCE were detected both pre-treatment and after the air stripper on the Village water system in 2022 and 2023; although, aside from chloroform, all concentrations were below AWQS. PCE has been detected in monitoring locations north of the River (CDM-2, CDM-3, DGC-12I-A, DGC-1I, TH-7) and cDCE has been detected in TH-7. The Village drinking water analytical results are shown in **Appendix H** and trends are displayed in **Appendix F**.

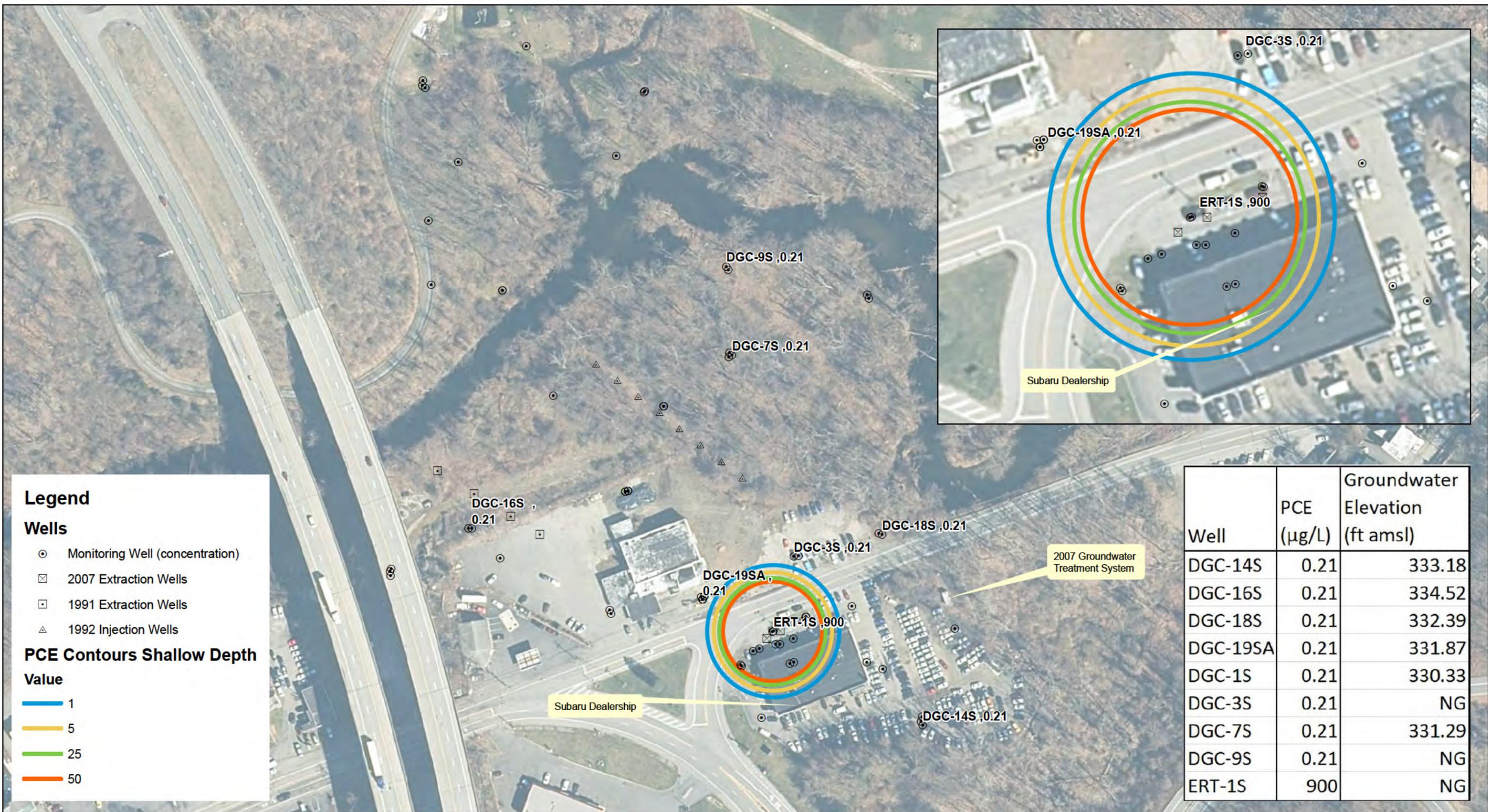
## 4.3 Groundwater Elevation Monitoring

### 4.3.1 2025 Groundwater Measurements and Elevations

On April 21, 2025, CDM Smith performed annual groundwater gauging; measuring the depth to water at 21 wells using water level meters.

Groundwater elevations were calculated from the depth to water measurements based on the historical well construction data. The data is summarized in Tables 4B and 4C in **Appendix E**. Extraction wells ERT-EW-5, ERT-EW-6, and ERT-EW-7 were not pumping during the gauging activities and therefore would have no drawdown effect on the nearby wells. In previous years, under the operation of all three extraction wells, there was an identified local minimum at ERT-2S located near the extraction wells, suggesting shallow groundwater may have been pulled towards the extraction well system.

Intermediate wells may or may not be in the same unconfined aquifer as the shallow wells; sufficient boring logs are not available to make this determination. The groundwater appears to be flowing towards the River from the south and northeast and to the Brewster Village Well Field from the western area north of the Croton River with a low area around DGC-1I (330.48 ft amsl) and TH-7 (330.37 ft amsl) as shown on **Figure 4-5b**. CDM Smith was unable to gauge certain wells due to damage, as is noted in Section 3.2.



**Legend**

**Wells**

- Monitoring Well (concentration)
- ⊠ 2007 Extraction Wells
- 1991 Extraction Wells
- △ 1992 Injection Wells

**PCE Contours Shallow Depth Value**

- 1
- 5
- 25
- 50

Well	PCE (µg/L)	Groundwater Elevation (ft amsl)
DGC-14S	0.21	333.18
DGC-16S	0.21	334.52
DGC-18S	0.21	332.39
DGC-19SA	0.21	331.87
DGC-1S	0.21	330.33
DGC-3S	0.21	NG
DGC-7S	0.21	331.29
DGC-9S	0.21	NG
ERT-1S	900	NG

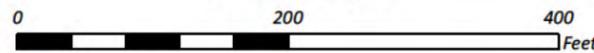


**Notes:**

1. All concentration contours are provided in micrograms per liter (µg/L).
2. Non-detect results assigned values equal to 0.21 µg/L
3. PCE - tetrachloroethene
4. NG - not gauged

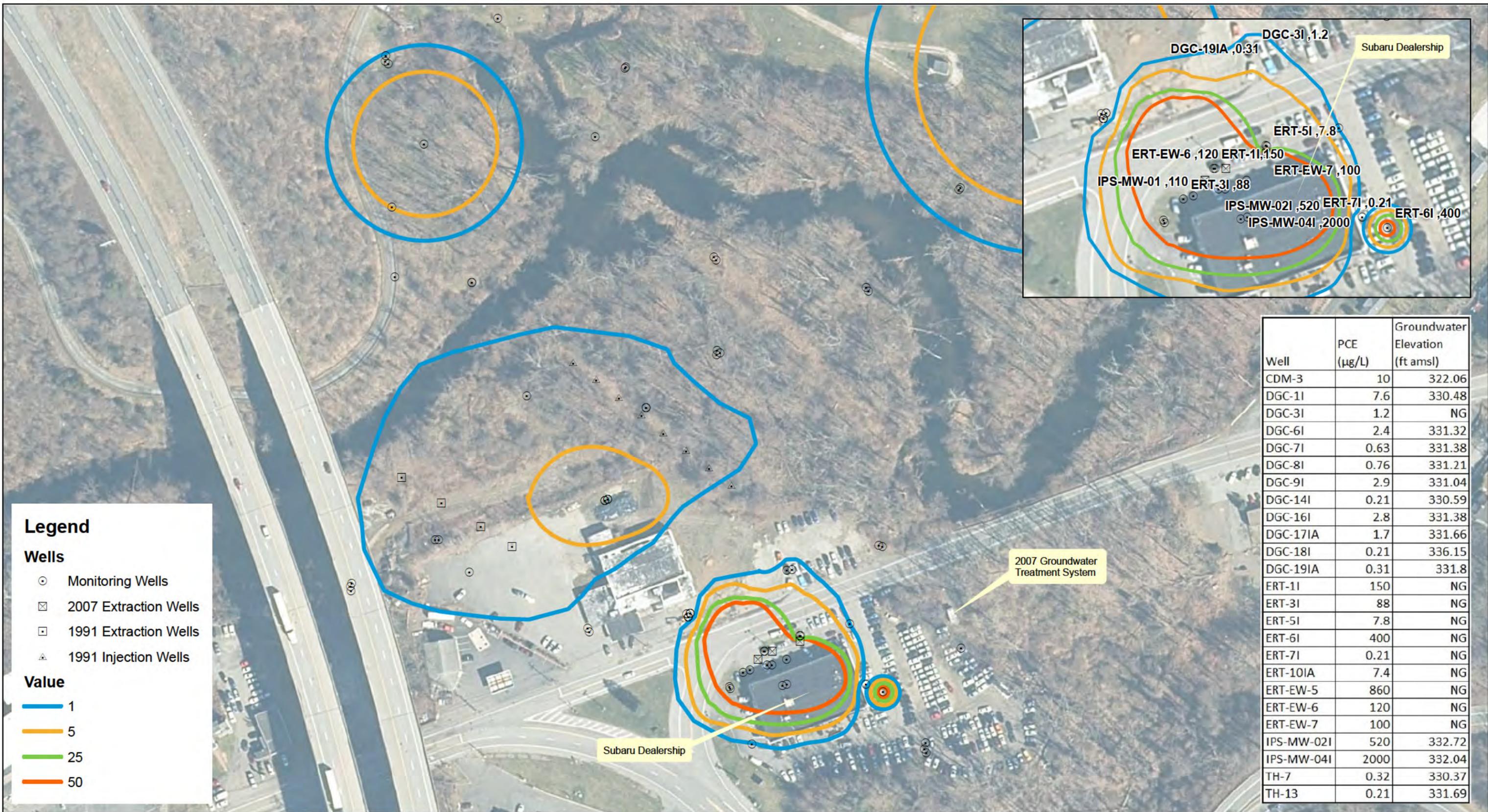
**Groundwater PCE Concentrations for Shallow Wells — April 2025**

1 inch = 135 feet



Brewster Village Well Field  
Brewster, NY  
Figure 4.1a





**Legend**

- Wells**
- Monitoring Wells
  - ⊠ 2007 Extraction Wells
  - ⊡ 1991 Extraction Wells
  - ▲ 1991 Injection Wells

- Value**
- 1
  - 5
  - 25
  - 50

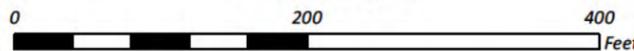
Well	PCE (µg/L)	Groundwater Elevation (ft amsl)
CDM-3	10	322.06
DGC-1I	7.6	330.48
DGC-3I	1.2	NG
DGC-6I	2.4	331.32
DGC-7I	0.63	331.38
DGC-8I	0.76	331.21
DGC-9I	2.9	331.04
DGC-14I	0.21	330.59
DGC-16I	2.8	331.38
DGC-17IA	1.7	331.66
DGC-18I	0.21	336.15
DGC-19IA	0.31	331.8
ERT-1I	150	NG
ERT-3I	88	NG
ERT-5I	7.8	NG
ERT-6I	400	NG
ERT-7I	0.21	NG
ERT-10IA	7.4	NG
ERT-EW-5	860	NG
ERT-EW-6	120	NG
ERT-EW-7	100	NG
IPS-MW-02I	520	332.72
IPS-MW-04I	2000	332.04
TH-7	0.32	330.37
TH-13	0.21	331.69



- Notes:**
1. All concentration contours are provided in micrograms per liter (µg/L).
  2. Non-detect results assigned values equal to 0.21 µg/L
  3. PCE - tetrachloroethene
  4. NG - not gauged

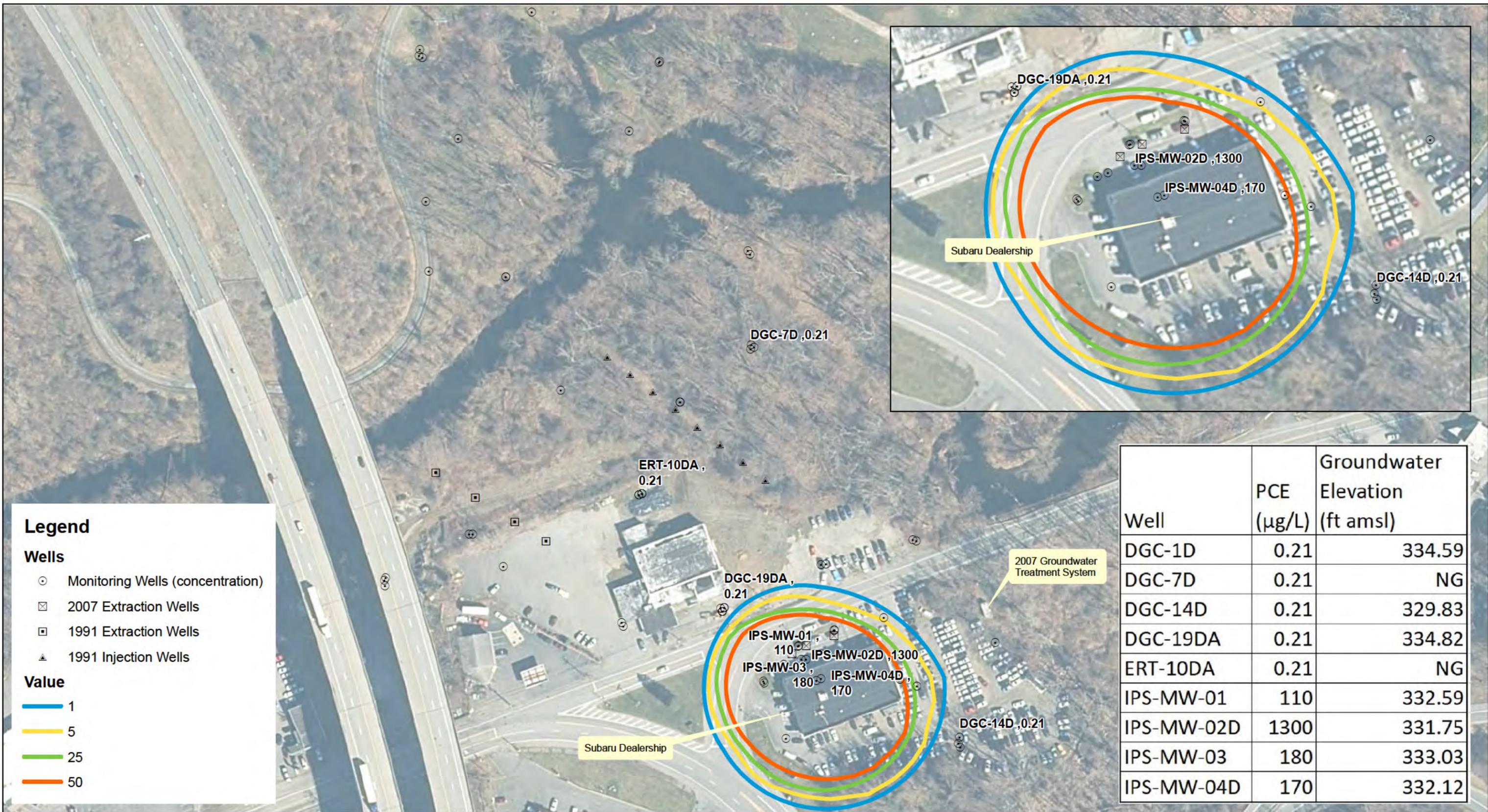
**Groundwater PCE Concentrations for Intermediate Wells — April 2025**

1 inch = 125 feet



Brewster Village Well Field  
Brewster, NY  
Figure 4.1b





**Legend**

**Wells**

- Monitoring Wells (concentration)
- ⊠ 2007 Extraction Wells
- ⊡ 1991 Extraction Wells
- ▲ 1991 Injection Wells

**Value**

- 1
- 5
- 25
- 50

Well	PCE (µg/L)	Groundwater Elevation (ft amsl)
DGC-1D	0.21	334.59
DGC-7D	0.21	NG
DGC-14D	0.21	329.83
DGC-19DA	0.21	334.82
ERT-10DA	0.21	NG
IPS-MW-01	110	332.59
IPS-MW-02D	1300	331.75
IPS-MW-03	180	333.03
IPS-MW-04D	170	332.12

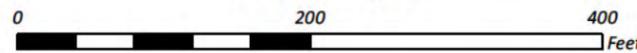


**Notes:**

1. All concentration contours are provided in micrograms per liter (µg/L).
2. Non-detect results assigned values equal to 0 µg/L
3. PCE - tetrachloroethene
4. NG - not gauged

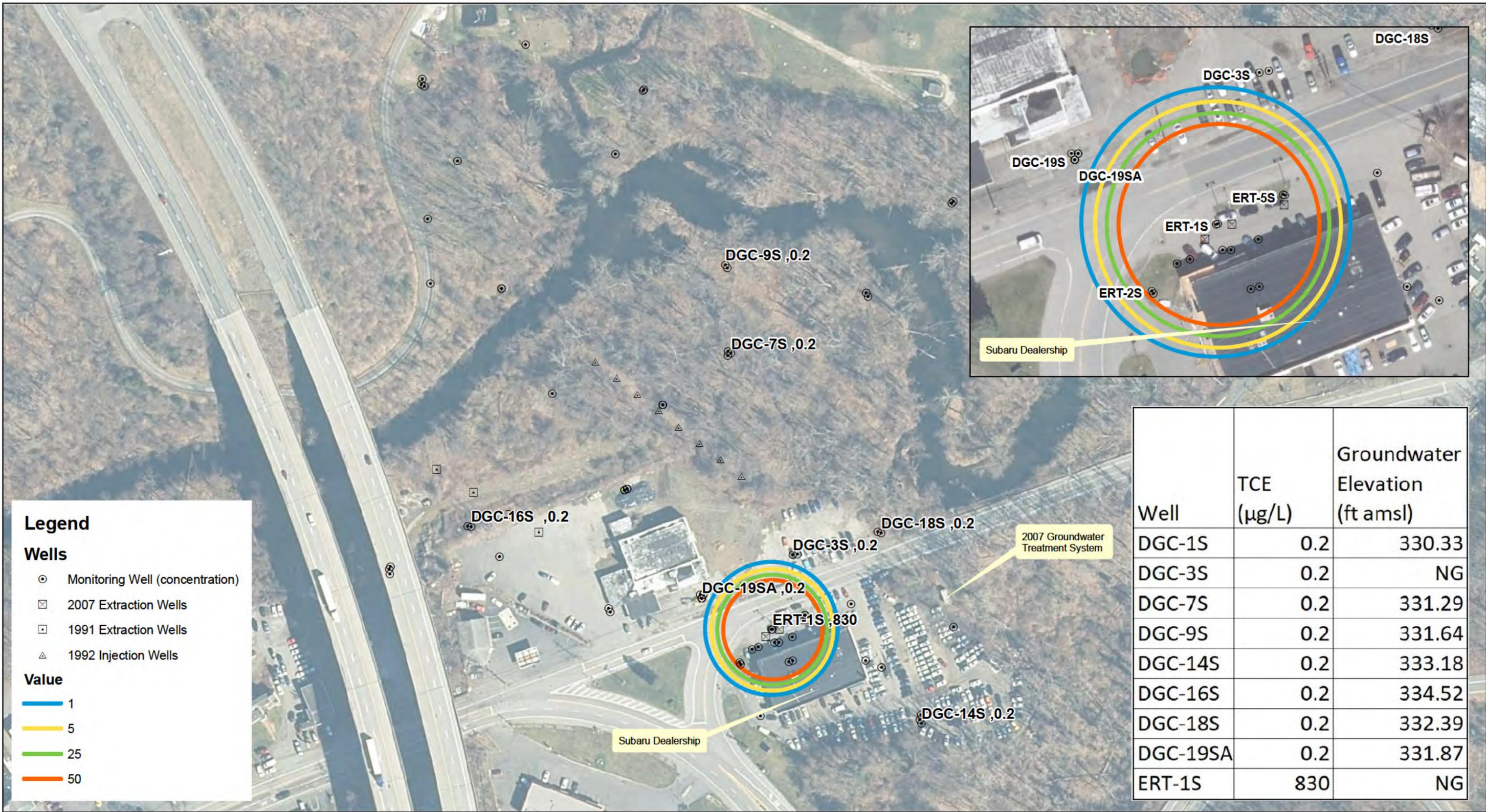
**Groundwater PCE Concentrations for Deep Wells — April 2025**

1 inch = 125 feet



Brewster Village Well Field  
Brewster, NY  
Figure 4.1c





**Legend**

**Wells**

- Monitoring Well (concentration)
- ⊠ 2007 Extraction Wells
- ⊡ 1991 Extraction Wells
- △ 1992 Injection Wells

**Value**

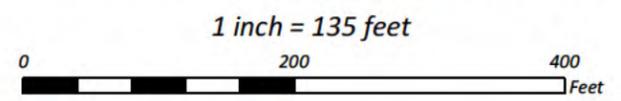
- Blue line: 1
- Yellow line: 5
- Green line: 25
- Orange line: 50

Well	TCE (µg/L)	Groundwater Elevation (ft amsl)
DGC-1S	0.2	330.33
DGC-3S	0.2	NG
DGC-7S	0.2	331.29
DGC-9S	0.2	331.64
DGC-14S	0.2	333.18
DGC-16S	0.2	334.52
DGC-18S	0.2	332.39
DGC-19SA	0.2	331.87
ERT-1S	830	NG



- Notes:
1. All concentration contours are provided in micrograms per liter (µg/L).
  2. Non-detect results assigned values equal to 0.20 µg/L
  3. TCE - cis-1,2-dichloroethene
  4. NG - not gauged

### Groundwater TCE Concentrations for Shallow Wells — April 2025



Brewster Village Well Field  
Brewster, NY  
Figure 4.2a





**Legend**

- Wells**
- Monitoring Wells
  - ⊠ 2007 Extraction Wells
  - 1991 Extraction Wells
  - △ 1991 Injection Wells

- Value**
- 1
  - 5
  - 25
  - 50

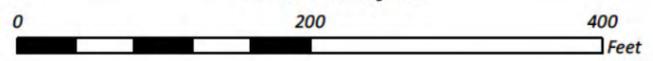
Well	TCE (µg/L)	Groundwater Elevation (ft amsl)
CDM-3	1	322.06
DGC-11	0.2	330.48
DGC-31	1.8	NG
DGC-61	1.4	331.32
DGC-71	0.2	331.38
DGC-81	0.2	331.21
DGC-91	1.6	331.04
DGC-141	0.2	330.59
DGC-161	0.53	331.38
DGC-171A	0.68	331.66
DGC-181	0.2	336.15
DGC-191A	0.25	331.8
ERT-11	2.8	NG
ERT-31	0.53	NG
ERT-51	1.9	NG
ERT-61	100	NG
ERT-71	0.2	NG
ERT-101A	1.6	NG
ERT-EW-5	13	NG
ERT-EW-6	1.9	NG
ERT-EW-7	1.8	NG
IPS-MW-0	38	332.72
IPS-MW-0	10	332.04
TH-7	0.21	330.37
TH-13	0.2	331.69



- Notes:**
1. All concentration contours are provided in micrograms per liter (µg/L).
  2. Non-detect results assigned values equal to 0.20 µg/L
  3. TCE - trichloroethene
  4. NG - not gauged

**Groundwater TCE Concentrations for Intermediate Wells — April 2025**

1 inch = 125 feet



Brewster Village Well Field  
Brewster, NY  
Figure 4.2b





**Legend**

- Wells**
- Monitoring Wells (concentration)
  - ☒ 2007 Extraction Wells
  - ☐ 1991 Extraction Wells
  - ▲ 1991 Injection Wells
- Well\_Data\_Points\_2025\_Deep\_2

**Value**

- 1
- 5
- 25
- 50

Well	TCE (µg/L)	Groundwater Elevation (ft amsl)
DGC-1D	0.2	334.59
DGC-7D	0.2	NG
DGC-14D	0.2	329.83
DGC-19DA	0.2	334.82
ERT-10DA	0.2	NG
IPS-MW-01	2.5	332.59
IPS-MW-02D	8.2	331.75
IPS-MW-03	5.1	333.03
IPS-MW-04D	0.4	332.12

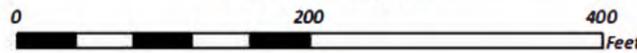


**Notes:**

1. All concentration contours are provided in micrograms per liter (µg/L).
2. Non-detect results assigned values equal to 0.2 µg/L
3. TCE - trichloroethene
4. NG - not gauged

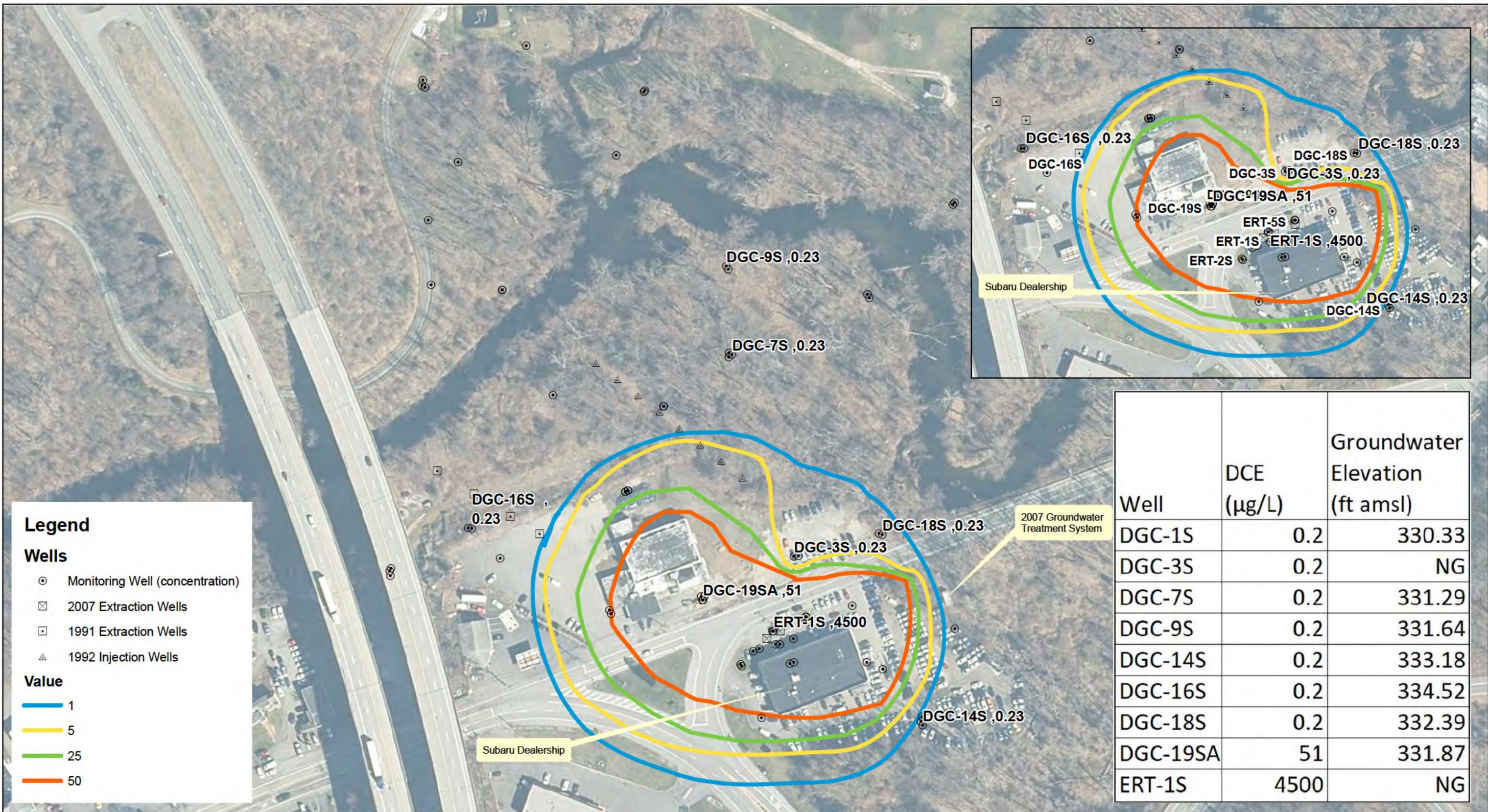
**Groundwater TCE Concentrations for Deep Wells — April 2025**

1 inch = 125 feet



Brewster Village Well Field  
Brewster, NY  
Figure 4.2c





**Legend**

**Wells**

- Monitoring Well (concentration)
- ⊠ 2007 Extraction Wells
- ⊠ 1991 Extraction Wells
- △ 1992 Injection Wells

**Value**

- 1
- 5
- 25
- 50

Well	DCE (µg/L)	Groundwater Elevation (ft amsl)
DGC-1S	0.2	330.33
DGC-3S	0.2	NG
DGC-7S	0.2	331.29
DGC-9S	0.2	331.64
DGC-14S	0.2	333.18
DGC-16S	0.2	334.52
DGC-18S	0.2	332.39
DGC-19SA	51	331.87
ERT-1S	4500	NG

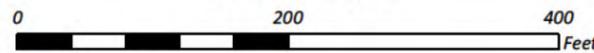


**Notes:**

1. All concentration contours are provided in micrograms per liter (µg/L).
2. Non-detect results assigned values equal to 0.2 µg/L
3. DCE - cis-1,2 dichloroethene
4. NG - not gauged

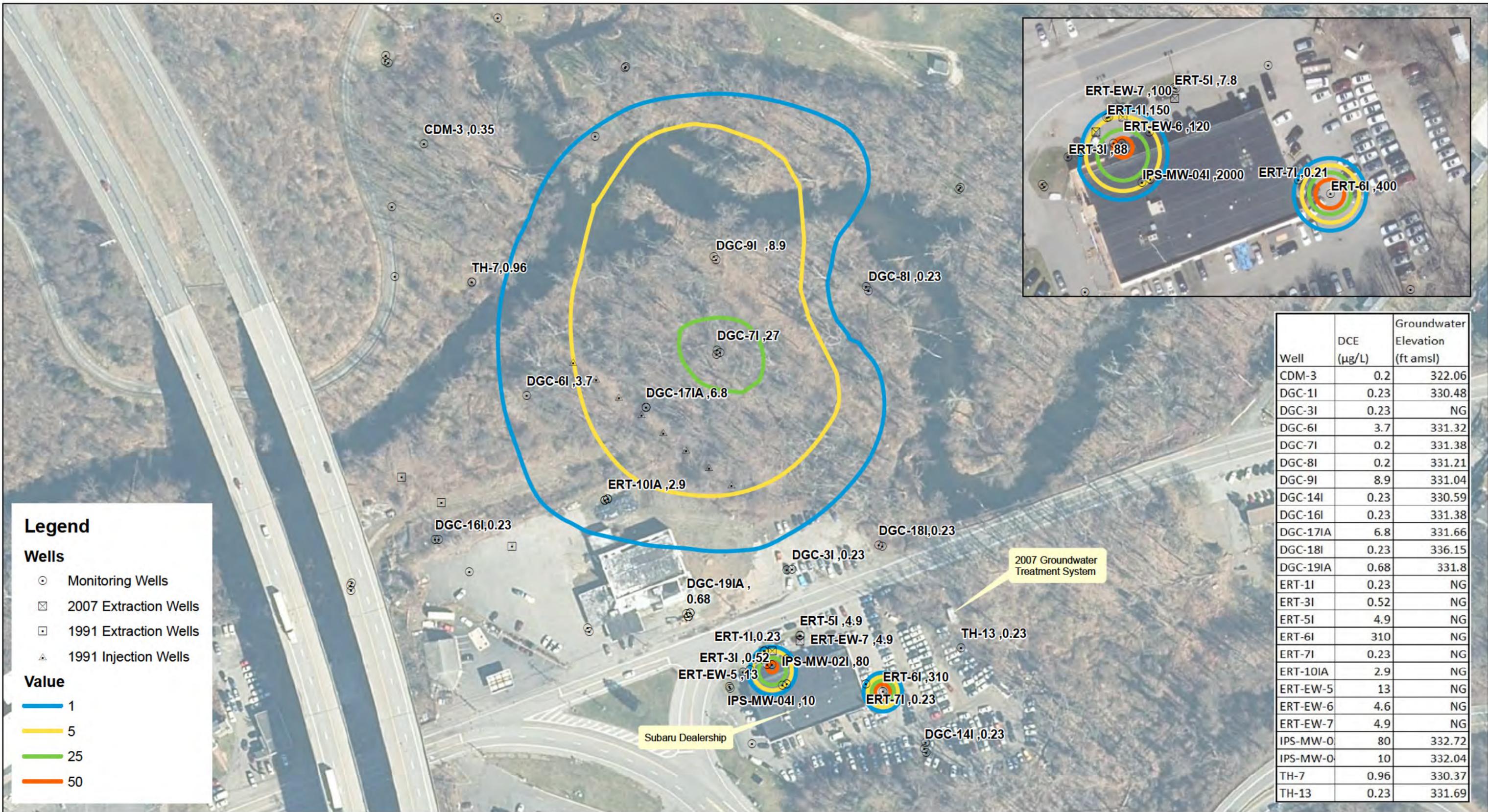
**Groundwater DCE Concentrations for Shallow Wells — April 2025**

1 inch = 135 feet



Brewster Village Well Field  
Brewster, NY  
Figure 4.3a





**Legend**

**Wells**

- Monitoring Wells
- ⊠ 2007 Extraction Wells
- 1991 Extraction Wells
- ▲ 1991 Injection Wells

**Value**

- 1
- 5
- 25
- 50

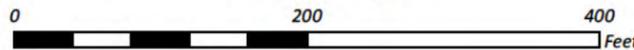
Well	DCE (µg/L)	Groundwater Elevation (ft amsl)
CDM-3	0.2	322.06
DGC-1I	0.23	330.48
DGC-3I	0.23	NG
DGC-6I	3.7	331.32
DGC-7I	0.2	331.38
DGC-8I	0.2	331.21
DGC-9I	8.9	331.04
DGC-14I	0.23	330.59
DGC-16I	0.23	331.38
DGC-17IA	6.8	331.66
DGC-18I	0.23	336.15
DGC-19IA	0.68	331.8
ERT-1I	0.23	NG
ERT-3I	0.52	NG
ERT-5I	4.9	NG
ERT-6I	310	NG
ERT-7I	0.23	NG
ERT-10IA	2.9	NG
ERT-EW-5	13	NG
ERT-EW-6	4.6	NG
ERT-EW-7	4.9	NG
IPS-MW-0	80	332.72
IPS-MW-0	10	332.04
TH-7	0.96	330.37
TH-13	0.23	331.69

**Notes:**

1. All concentration contours are provided in micrograms per liter (µg/L).
2. Non-detect results assigned values equal to 0.20 µg/L
3. DCE - cis-1,2 dichloroethene
4. NG - not gauged

**Groundwater DCE Concentrations for Intermediate Wells — April 2025**

1 inch = 125 feet



Brewster Village Well Field  
Brewster, NY  
Figure 4.3b





**Legend**

**Wells**

- Monitoring Wells (concentration)
- ⊠ 2007 Extraction Wells
- ⊡ 1991 Extraction Wells
- ▲ 1991 Injection Wells

**Value**

- 1
- 5
- 25
- 50

Well	DCE (µg/L)	Groundwater Elevation (ft amsl)
DGC-1D	0.23	334.59
DGC-7D	0.23	NG
DGC-14D	0.23	329.83
DGC-19DA	0.23	334.82
ERT-10DA	0.23	NG
IPS-MW-01	1	332.59
IPS-MW-02D	24	331.75
IPS-MW-03	23	333.03
IPS-MW-04D	0.28	332.12

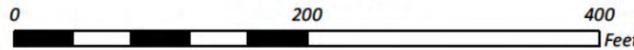


**Notes:**

1. All concentration contours are provided in micrograms per liter (µg/L).
2. Non-detect results assigned values equal to 0.23 µg/L
3. DCE - cis-1,2-dichloroethene
4. NG - not gauged

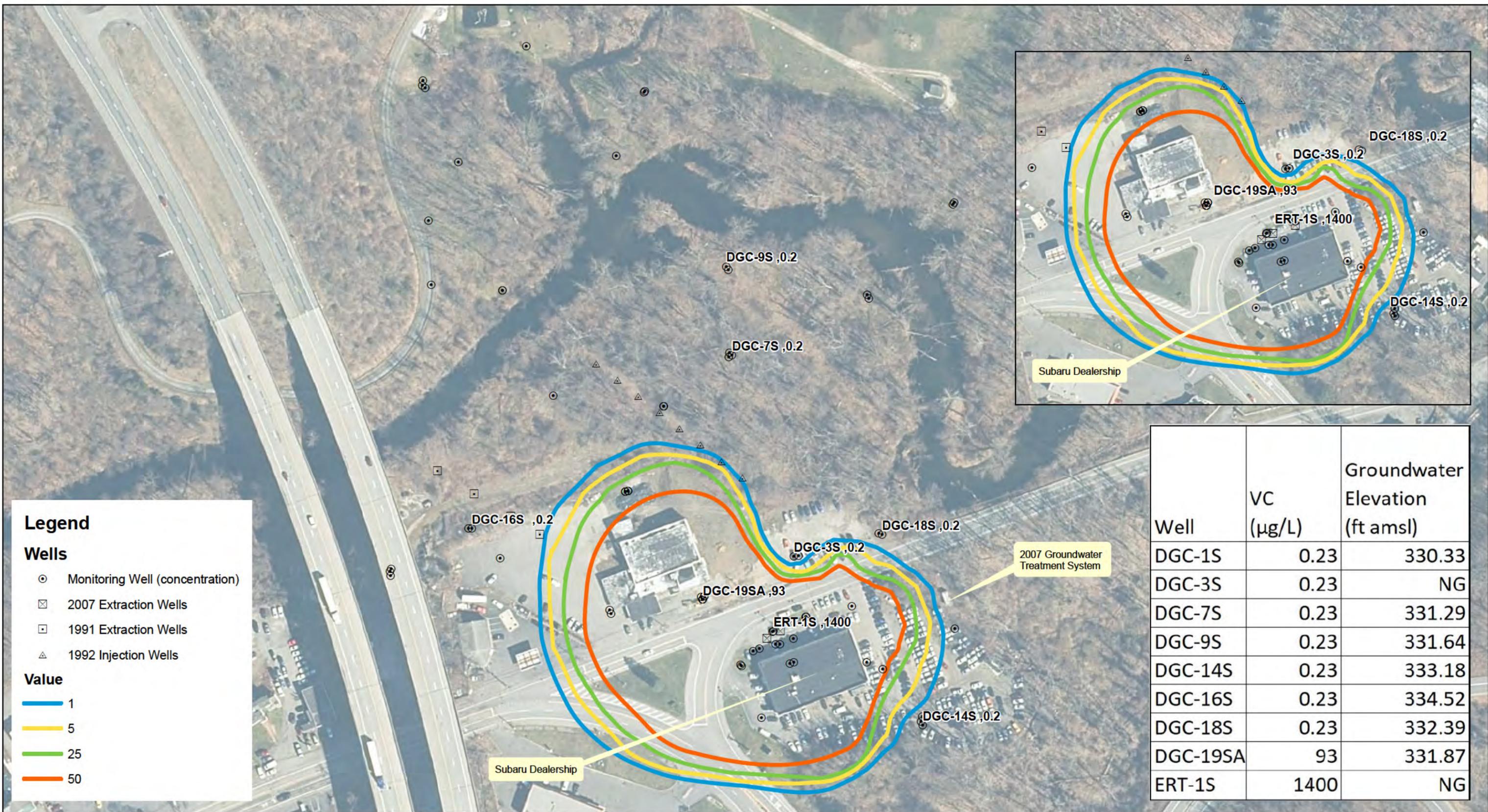
**Groundwater DCE Concentrations for Deep Wells — April 2025**

1 inch = 125 feet



Brewster Village Well Field  
Brewster, NY  
Figure 4.3c





**Legend**

**Wells**

- Monitoring Well (concentration)
- ⊠ 2007 Extraction Wells
- ⊡ 1991 Extraction Wells
- △ 1992 Injection Wells

**Value**

- 1
- 5
- 25
- 50

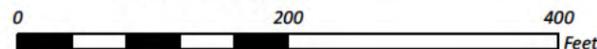
Well	VC (µg/L)	Groundwater Elevation (ft amsl)
DGC-1S	0.23	330.33
DGC-3S	0.23	NG
DGC-7S	0.23	331.29
DGC-9S	0.23	331.64
DGC-14S	0.23	333.18
DGC-16S	0.23	334.52
DGC-18S	0.23	332.39
DGC-19SA	93	331.87
ERT-1S	1400	NG

**Notes:**

1. All concentration contours are provided in micrograms per liter (µg/L).
2. Non-detect results assigned values equal to 0.20 µg/L
3. VC - vinyl chloride
4. NG - not gauged

**Groundwater VC Concentrations for Shallow Wells — April 2025**

1 inch = 135 feet



Brewster Village Well Field  
Brewster, NY  
Figure 4.4a





**Legend**

**Wells**

- Monitoring Wells
- ⊠ 2007 Extraction Wells
- 1991 Extraction Wells
- ▲ 1991 Injection Wells

**Value**

- 1
- 5
- 25
- 50

Well	VC (µg/L)	Groundwater Elevation (ft amsl)
CDM-3	0.35	322.06
DGC-1I	0.2	330.48
DGC-3I	0.2	NG
DGC-6I	0.2	331.32
DGC-7I	0.23	331.38
DGC-8I	0.23	331.21
DGC-9I	0.2	331.04
DGC-14I	0.2	330.59
DGC-16I	0.2	331.38
DGC-17IA	0.2	331.66
DGC-18I	0.2	336.15
DGC-19IA	0.2	331.8
ERT-1I	0.2	NG
ERT-3I	0.2	NG
ERT-5I	0.2	NG
ERT-6I	15	NG
ERT-7I	0.2	NG
ERT-10IA	0.2	NG
ERT-EW-5	1	NG
ERT-EW-6	0.8	NG
ERT-EW-7	0.61	NG
IPS-MW-0	3.9	332.72
IPS-MW-0	10	332.04
TH-7	0.57	330.37
TH-13	0.2	331.69

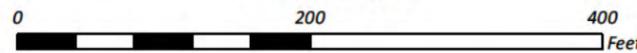


**Notes:**

1. All concentration contours are provided in micrograms per liter (µg/L).
2. Non-detect results assigned values equal to 0.23 µg/L
3. VC - vinyl chloride
4. NG - not gauged

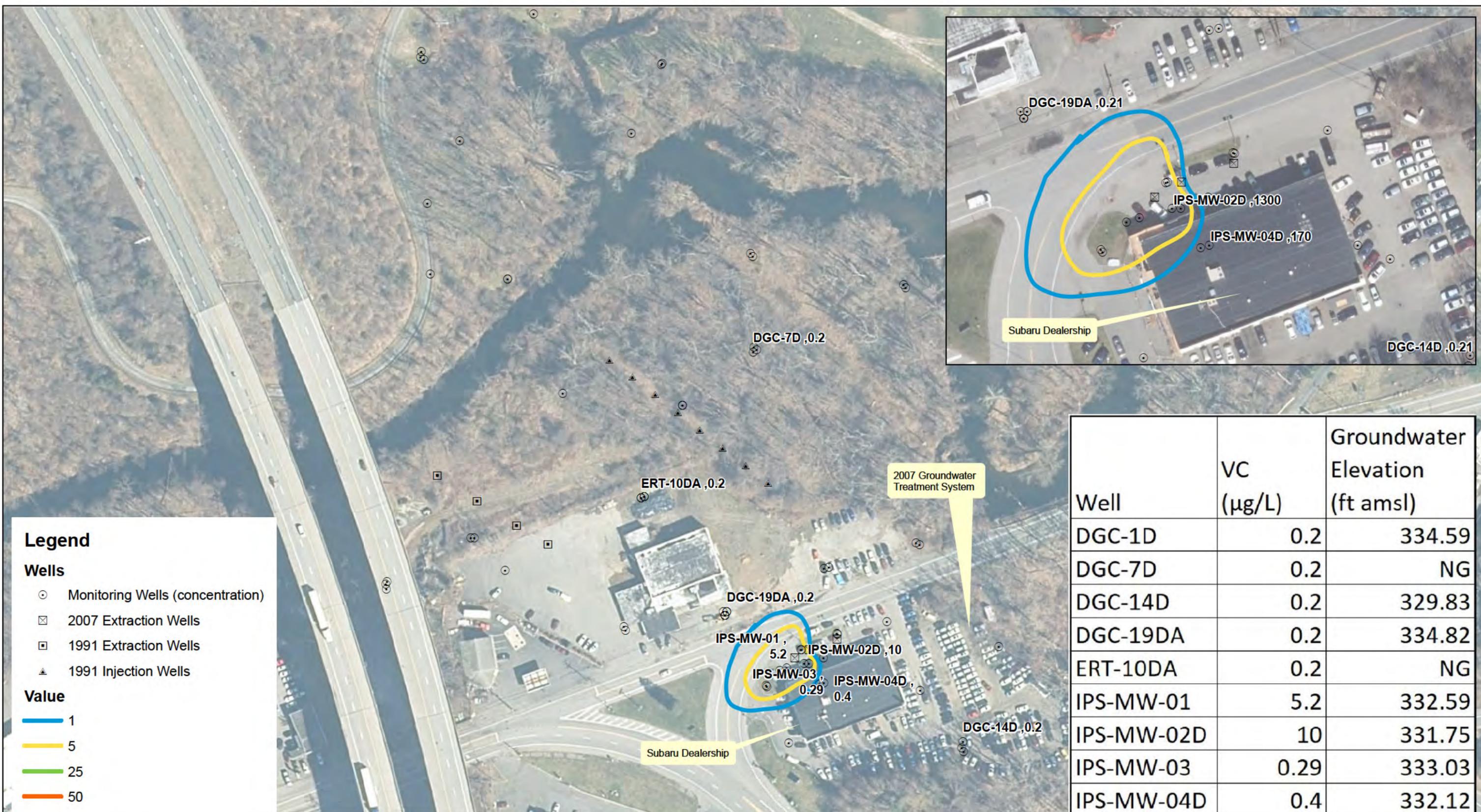
**Groundwater VC Concentrations for Intermediate Wells — April 2025**

1 inch = 125 feet



Brewster Village Well Field  
Brewster, NY  
Figure 4.4b





**Legend**

- Wells**
- Monitoring Wells (concentration)
  - ⊠ 2007 Extraction Wells
  - 1991 Extraction Wells
  - ▲ 1991 Injection Wells

- Value**
- 1
  - 5
  - 25
  - 50

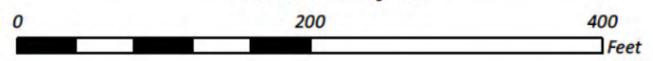
Well	VC (µg/L)	Groundwater Elevation (ft amsl)
DGC-1D	0.2	334.59
DGC-7D	0.2	NG
DGC-14D	0.2	329.83
DGC-19DA	0.2	334.82
ERT-10DA	0.2	NG
IPS-MW-01	5.2	332.59
IPS-MW-02D	10	331.75
IPS-MW-03	0.29	333.03
IPS-MW-04D	0.4	332.12



- Notes:**
1. All concentration contours are provided in micrograms per liter (µg/L).
  2. Non-detect results assigned values equal to 0.2 µg/L
  3. VC - vinyl chloride
  4. NG - not gauged

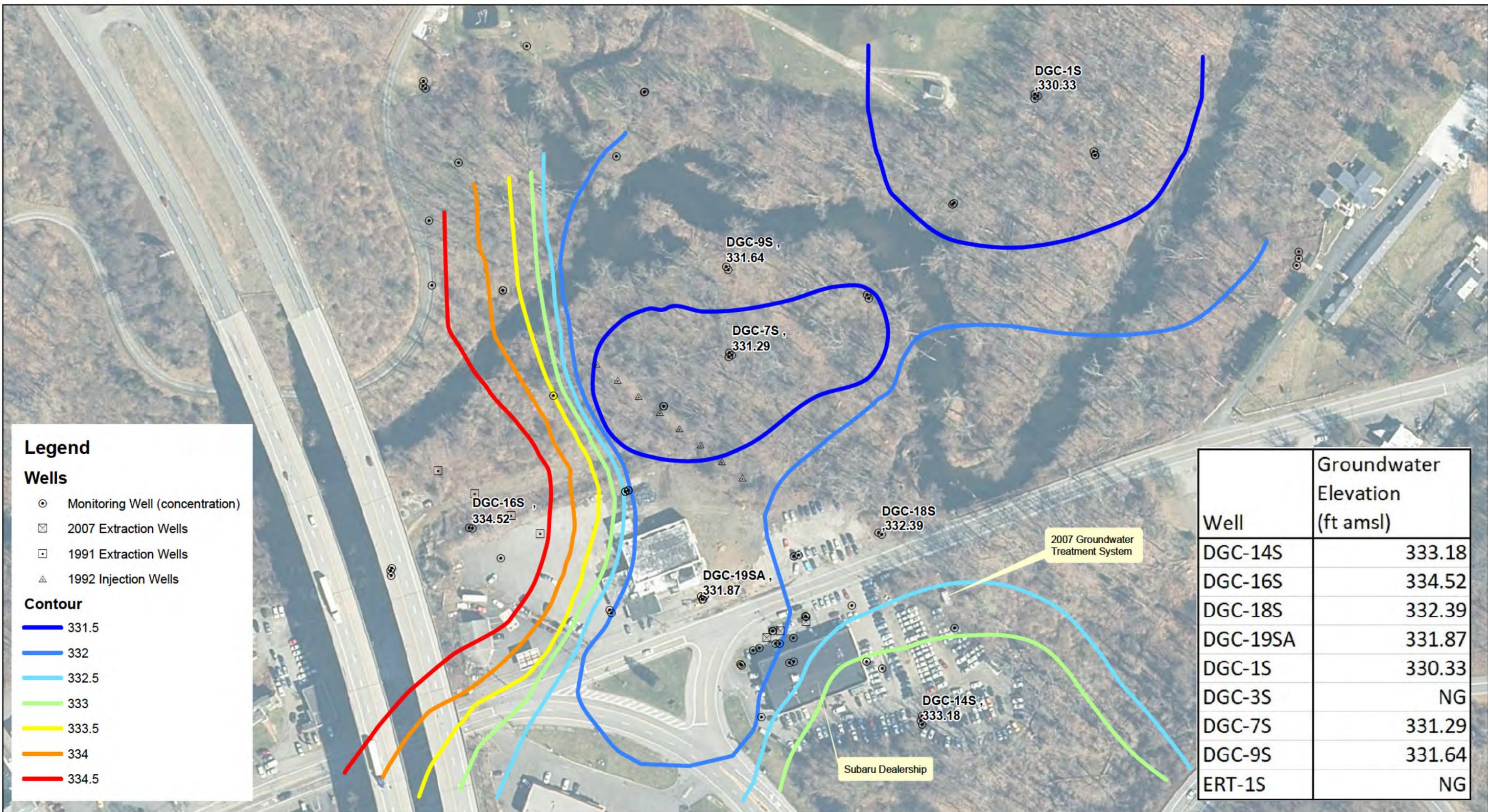
**Groundwater VC Concentrations for Deep Wells — April 2025**

1 inch = 125 feet



Brewster Village Well Field  
Brewster, NY  
Figure 4.4c





**Legend**

**Wells**

- Monitoring Well (concentration)
- ⊠ 2007 Extraction Wells
- 1991 Extraction Wells
- △ 1992 Injection Wells

**Contour**

- 331.5
- 332
- 332.5
- 333
- 333.5
- 334
- 334.5

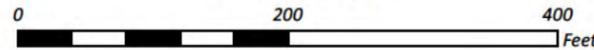
Well	Groundwater Elevation (ft amsl)
DGC-14S	333.18
DGC-16S	334.52
DGC-18S	332.39
DGC-19SA	331.87
DGC-1S	330.33
DGC-3S	NG
DGC-7S	331.29
DGC-9S	331.64
ERT-1S	NG



**Notes:**

1. All groundwater elevation contours are provided in feet above mean sea level (ft amsl)
2. All depth to water measurements for groundwater elevation were taken on 4/21/2025
3. NG - not gaged
4. Location and groundwater elevation of DGC-19SA are estimated.

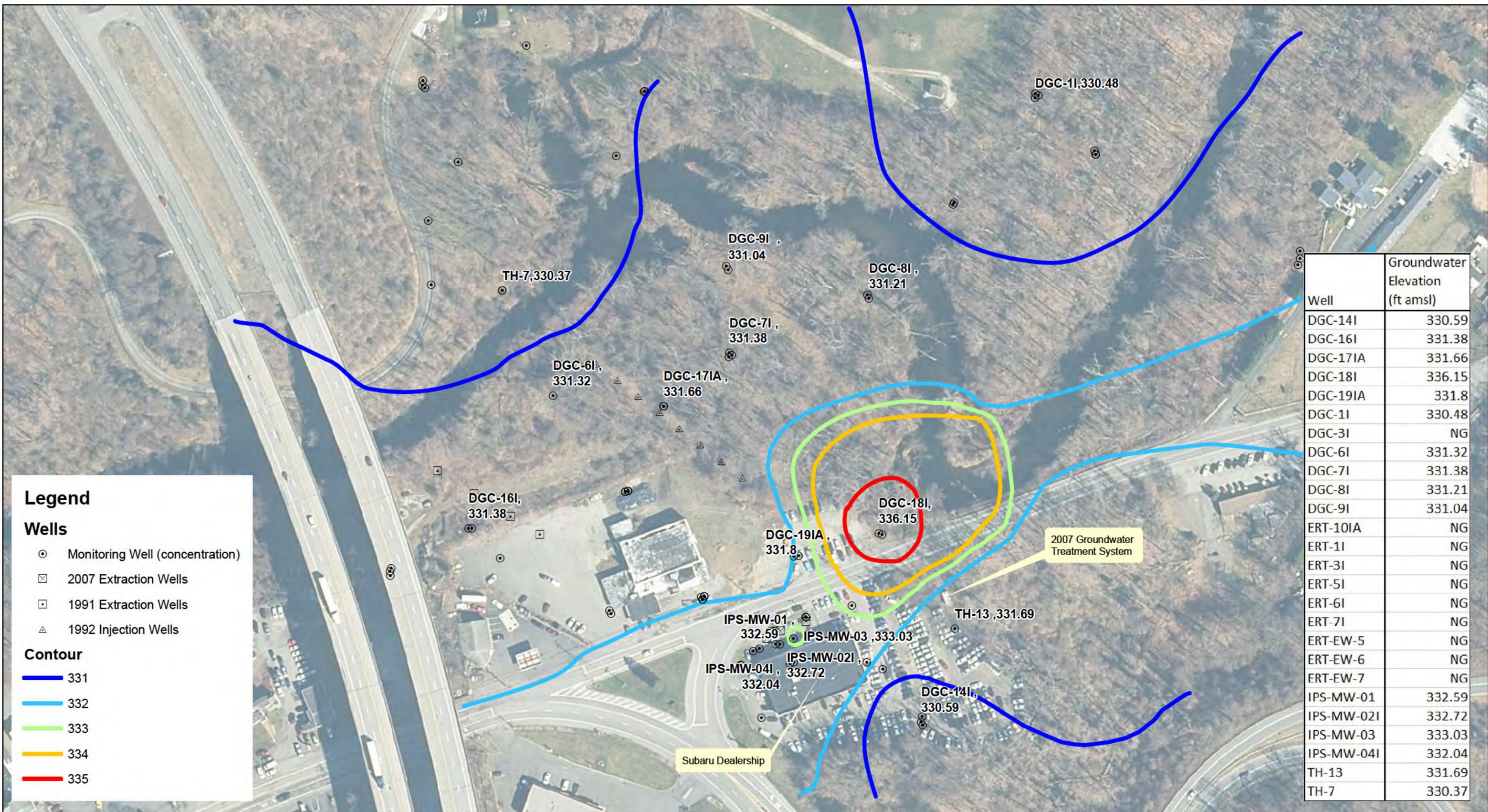
1 inch = 135 feet



**Groundwater Contours for Shallow Wells — April 2025**

Brewster Village Well Field  
Brewster, NY  
Figure 4.5a





Well	Groundwater Elevation (ft amsl)
DGC-14I	330.59
DGC-16I	331.38
DGC-17IA	331.66
DGC-18I	336.15
DGC-19IA	331.8
DGC-1I	330.48
DGC-3I	NG
DGC-6I	331.32
DGC-7I	331.38
DGC-8I	331.21
DGC-9I	331.04
ERT-10IA	NG
ERT-1I	NG
ERT-3I	NG
ERT-5I	NG
ERT-6I	NG
ERT-7I	NG
ERT-EW-5	NG
ERT-EW-6	NG
ERT-EW-7	NG
IPS-MW-01	332.59
IPS-MW-02I	332.72
IPS-MW-03	333.03
IPS-MW-04I	332.04
TH-13	331.69
TH-7	330.37

**Legend**

**Wells**

- Monitoring Well (concentration)
- ⊠ 2007 Extraction Wells
- 1991 Extraction Wells
- △ 1992 Injection Wells

**Contour**

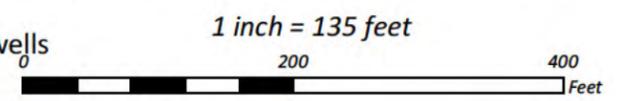
- 331
- 332
- 333
- 334
- 335

**Notes:**

1. All groundwater elevation contours are provided in feet above mean sea level (ft amsl)
2. All depth to water measurements for groundwater elevation were taken on 4/21/2025
3. NG - not gagued
4. Location and groundwater elevation of DGC-17IA, DGC-19IA, and IPS-MW wells are estimated.

### Groundwater Contours for Intermediate Wells — April 2025

Brewster Village Well Field  
Brewster, NY  
Figure 4.5b





**Legend**

**Wells**

- Monitoring Well (concentration)
- ⊠ 2007 Extraction Wells
- 1991 Extraction Wells
- △ 1992 Injection Wells

**Contour**

- 330
- 331
- 332
- 333
- 334

Well	Groundwater Elevation (ft amsl)
CDM-3	322.06
DGC-14D	329.83
DGC-19DA	334.82
DGC-1D	334.59
DGC-7D	NG
ERT-10DA	NG
IPS-MW-02D	331.75
IPS-MW-04D	332.12

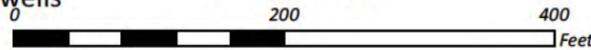


**Notes:**

1. All groundwater elevation contours are provided in feet above mean sea level (ft amsl)
2. All depth to water measurements for groundwater elevation were taken on 4/21/2025
3. NG - not gagued
4. Location and groundwater elevation of DGC-10DA, DGC-19DA, and IPS-MW wells are estimated.

**Groundwater Contours for Deep Wells — April 2025**

1 inch = 135 feet



Brewster Village Well Field  
Brewster, NY  
Figure 4.5c



## 5.0 Remedy Evaluation

### 5.1 Groundwater Treatment System

The groundwater treatment system treated approximately 227,987,448 gallons of water from system start-up in February 2008 through December 20, 2024. Beginning in 2024, CDM Smith monitors the treatment system remotely, performs monthly sampling of the system influent, extraction wells, and discharge, and completes system maintenance as necessary.

The combined influent concentrations of Site COCs from March 2008 through 2024 is presented in **Figure 5.1**. Concentrations of cDCE, TCE, and VC in the combined influent to the groundwater treatment system have decreased significantly since system sampling began in March 2008. For PCE, concentrations decreased an order of magnitude between 2008 and 2010, from 2010 through the first quarter of 2019 the combined influent PCE concentration plateaued, fluctuating just around 250 µg/L. Starting in spring 2019, the combined influent PCE concentration has fluctuated more dramatically, concentrations spikes correspond to GWTS restarts after periods of weeks- to months-long shut downs. When the system is consistently operating without interruption, the combined influent PCE concentrations will plateau again to around 250 µg/L..

**Table 5.1** shows the maximum, minimum, and latest COC concentrations from the combined system influent samples collected between March 2008 and December 2024. Historical concentration charts for all sampling activity COC concentrations for the 2007 groundwater treatment system can be found in **Appendix F**.

**Table 5.1 System Combined Influent Chemical of Concern Concentrations**

Chemical of Concern (COC)	Maximum (µg/L)	Maximum Date	Minimum (µg/L)	Minimum Date	Average 2024 (µg/L)	December 2024 (µg/L)
Cis-1,2-Dichloroethylene (cDCE)	480	7/25/2008	ND	8/15/2018	9.92	12.4
Trichloroethylene (TCE)	17	6/20/2008	ND	7/15/2022	2.97	2.74
Tetrachloroethylene (PCE)	3,000	3/31/2009	19.5	2/4/2024	298	390
Vinyl Chloride (VC)	84	11/10/2015	ND	7/15/2022	2.08	3.7

The combined influent concentrations for cDCE, TCE, PCE, and VC have reduced by 98, 83, 90, and 97 percent, respectively, from their maximum concentration (cDCE: 480 µg/L in July 2008, TCE: 17 µg/L in July 2008, PCE: 3,000 µg/L in March 2009, VC: 84 µg/L in November 2015) to the 2024 average. When operational, the GWTS and extraction wells successfully removed COCs from the groundwater and prevented downgradient migration of contaminants.

The mass removals for VOCs (**Appendix E**, Tables 3A through 3D) were calculated using analytical sample data and pumping rates dated March 2008 to December 2024 from wells ERT-EW-5, ERT-EW-6, and ERT-EW-7.

Since monitoring began in March 2008, the GWTS has removed an estimated 622 pounds of VOCs from the groundwater. Most of the VOC extraction has been PCE from well ERT-EW-5 (538 lbs or 87 percent total VOCs). The monthly extraction data for ERT-EW-5 is shown in **Appendix E**, Table 3A.

## 5.2 Extraction Wells

The GWTS average combined influent PCE concentration was 298 µg/L in 2024, which is in line with long term trends (the 2008 to 2023 average PCE concentration was 286 µg/L). Overall COC concentrations in 2024 remained within the historical ranges for all three extraction wells, likely a reflection of no significant interruptions to GWTS operations.

Operating all three extraction wells consistently has historically created a drawdown effect in the shallow groundwater around the extraction wells. In 2018, drawdown most likely due to pumping activities was noted to extend approximately 400 feet north of the extraction wells. The groundwater directly adjacent to the extraction wells was approximately two feet lower than the surrounding area. Based on the sharp drop off in contaminant concentration north of the extraction wells and a historical drawdown of groundwater, the contaminant plume is considered contained within the area of Subaru dealership by pumping operations.

## 5.3 Groundwater Monitoring Wells

The 2022 annual groundwater well sampling was completed between December 12 and December 14, 2022. CDM Smith sampled 23 groundwater monitoring wells and 3 GWTS extraction wells located on- and off-site. All wells sampled in 2022 were gauged between December 13 and December 14, 2022. The gauging data for these wells is shown in the field logbook (**Appendix D**) and in Tables 4B and 4C in **Appendix E**. Gauging data was not collected from shallow interval wells in 2022. The locations of all 2022 COC detections above the NYS AWQS are listed in **Table 5.2**. what to keep?

The 2025 annual groundwater sampling was completed between April 21 and May 1, 2025. CDM Smith sampled forty-five (45) groundwater monitoring wells located on and off-site. All wells sampled in 2025 were gauged on April 21, 2025. The gauging data for these wells is shown in the field logbook (**Appendix D**) and Tables 4B and 4C in **Appendix E**.

**Table 5.2 2025 Groundwater Sampling Chemical of Concern Exceedances**

Chemical of Concern (COC)	Well
Cis-1,2-Dichloroethylene (cDCE)	DGC-7I; DGC-9I; ERT-6I; ERT-EW-5; ERT-EW-6
Tetrachloroethylene (PCE)	DGC-1I; ERT-1I; ERT-3I; ERT-5I; ERT-6I; ERT-EW-5; ERT-EW-6; ERT-EW-7; TH-7; CDM-3
Trichloroethylene (TCE)	ERT-1I; ERT-6I; ERT-EW-5
Vinyl Chloride (VC)	ERT-6I

Groundwater analytical results indicate the presence of VOCs near the extraction wells, surrounding the former Brady Stannard dealership, and along the Croton River to the north and south.

The presence of cDCE and VC above the AWQS and lower concentrations of PCE and TCE at ERT-1S and DGC-6I suggests that they are in the later stages of PCE breakdown into associated byproducts. ERT-1S is located in OU-1 between extraction wells ERT-EW-5 and ERT-EW-6, while DGC-6I is located in the secondary plume area located northwest of the former Brady Stannard dealership near the Croton River. Additionally, DGC-1I, located north of the Brady Stannard dealership, reported concentrations of PCE exceeding the AWQS but did not detect cDCE, TCE or VC at concentrations exceeding the AWQS.

Wells associated with the source area near ERT-6I and extraction wells around the Subaru dealership detected PCE in higher concentrations than cDCE. ERT-EW-5, ERT-EW-6, ERT-EW-7, and ERT-6I all detected high concentrations of PCE greater than the AWQS. Thus, the plume near the extraction wells may still contain source PCE material in the early stages of breakdown.

Mann-Kendall statistical trend analyses were run for wells in which there were at least 10 annual samples collected since system startup in 2008 and at least 50 percent of the samples collected for each contaminant of concern were detections. Mann-Kendall analyses are applied to long-term water quality data to determine monotonic trends. A Mann-Kendall test does not require a specific distribution of data and assumes that data are independent. Per the EPA Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities Unified Guidance in 2009, the Mann-Kendall test does not require any special treatment for non-detects, only that all non-detects be set to a value lower than any of the detects. For these analyses, non-detect values were set to 50 percent of the reporting limit.

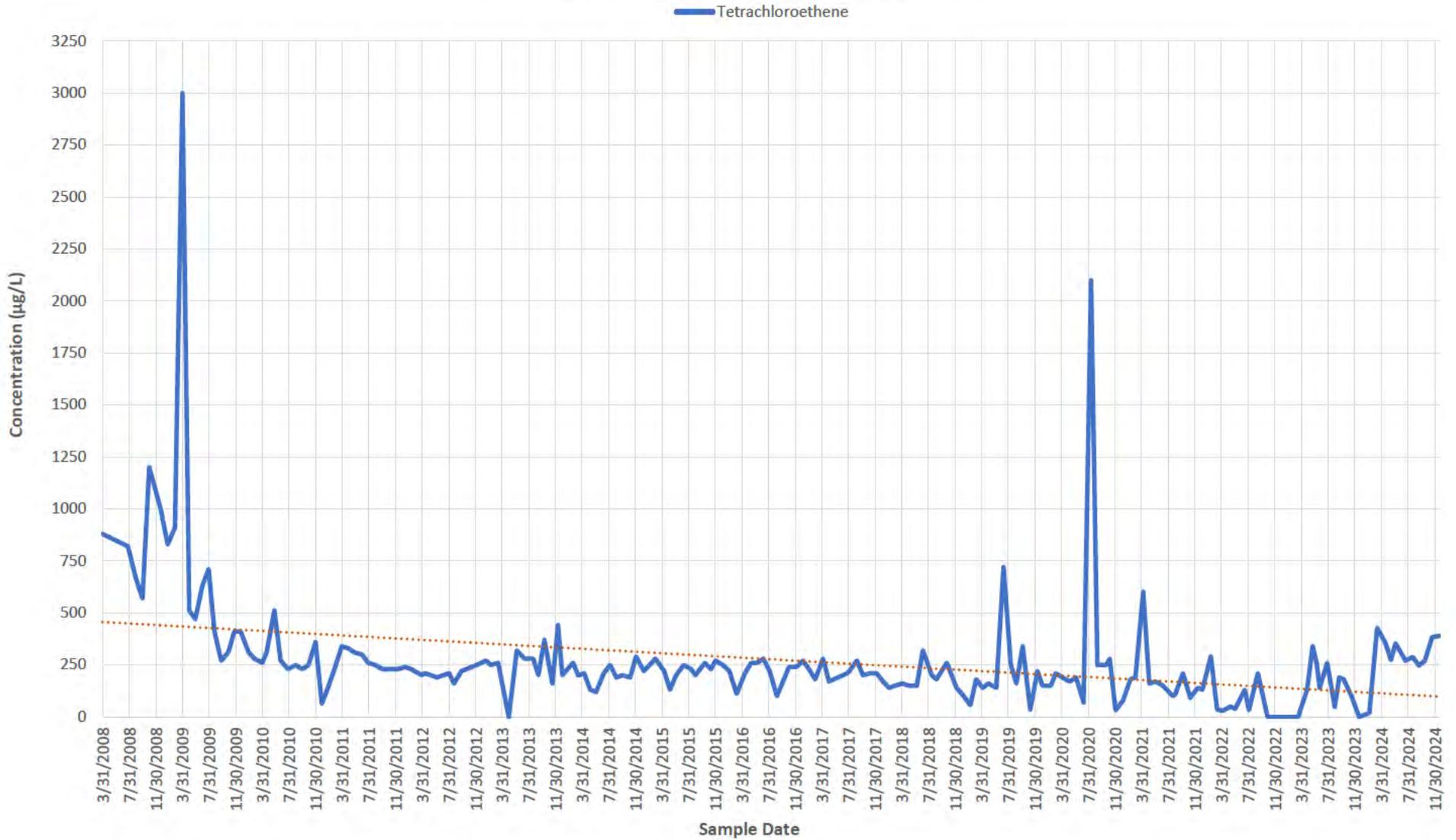
Excluding extraction well ERT-EW-5 cDCE, all trends are either decreasing or unable to be statistically determined. The increasing trend of cDCE in ERT-EW-5 could indicate the natural biodegradation within the residually contaminated soils beneath the Subaru dealership from PCE to cDCE. ERT-EW-5 routinely reports the highest levels of PCE presence of the three extraction wells. Therefore, the presence of cDCE would be more pronounced at ERT-EW-5 as PCE biodegrades to cDCE resulting in an increasing trend of cDCE concentrations. A summary of trends can be seen in **Table 5.4**. 'NA' indicates the contaminant of concern was not analyzed and 'No Trend' indicates a trend could not be statistically determined.

**Table 5.3 Contaminant of Concern Concentration Trend by Well**

Well	Concentration Trend			
	cDCE	TCE	PCE	VC
CDM-3	NA	No Trend	No Trend	NA
DGC-1I	Decreasing	Decreasing	No Trend	NA
DGC-3I	Decreasing	Decreasing	No Trend	NA
DGC-6I	Decreasing	Decreasing	Decreasing	No Trend
DGC-7I	Decreasing	Decreasing	No Trend	No Trend
DGC-8I	NA	Decreasing	Decreasing	NA
DGC-9I	No Trend	No Trend	No Trend	No Trend
DGC-16I	No Trend	No Trend	Decreasing	NA
DGC-17I	No Trend	No Trend	Decreasing	NA
TH-7	Decreasing	Decreasing	Decreasing	Decreasing
ERT-EW-5	Increasing	No Trend	No Trend	No Trend
ERT-EW-6	No Trend	No Trend	No Trend	No Trend
ERT-EW-7	No Trend	No Trend	No Trend	Decreasing

**Appendix F** contains historical concentration charts for all wells with historical COC detections and **Appendix I** contains the Mann-Kendall analyses.

**Figure 5.1**  
**GWTS Combined Influent PCE Concentrations**  
**March 2008 through December 2024**



## 6.0 Cost Evaluation

The total cost for operation and maintenance of the treatment system, long term monitoring, sampling activities, and analytical and reporting between December 2023 and December 2024 was approximately \$250,983.54. Costs for 2024 also include approximately \$151,562 for completing the injection pilot study investigation, reporting, and work plan development. The full expense breakdown for 2024 is shown in **Table 6.1**.

**Table 6.1 Annual Cost Breakdown for 2024**

Year	Plant O&M	Costs for Annual Sampling	Long Term Monitoring and Reporting	Costs for Monthly Sampling Analytical	Total Annual Cost
2024	\$38,681.92	\$0.00 <sup>a</sup>	\$203,022.90 <sup>b</sup>	\$9,278.72	\$250,983.54

Notes:

<sup>a</sup> Annual sampling will be conducted in early 2025, with the injection pilot study baseline groundwater sampling event.

<sup>b</sup> Cost for Long Term Monitoring and Reporting includes pre-injection pilot study investigation, reporting, and work plan development.

### 6.1 Cost Summary

The plant O&M costs are billed by CDM Smith for monthly site visits to maintain the groundwater treatment system, report parameters, and collect samples from the system influent and effluent. These costs include materials purchased for maintenance and repairs, travel expenses (gasoline, thruway tolls, and hotel), waste disposal, equipment rentals, and electricity. No additional costs were incurred beyond the routine O&M activities in 2024.

Annual sampling costs are billed by CDM Smith and include the costs for equipment rental, sample shipment, LVE, personal protective equipment, and per diem. Annual sampling generally occurs in the spring/summer and consists of sampling between 18 and 26 wells.

The long-term monitoring and reporting costs, which are billed by CDM Smith, include costs associated with project management and annual periodic reporting throughout the year. This cost also includes labor and travel expenses for annual sampling. 2024 costs included continued troubleshooting of issues related to GWTS operations, the injection pilot study investigation, reporting, and work plan development.

The 2024 analytical costs were derived from the invoices submitted by ALS to CDM Smith (and subsequently to NYSDEC). ALS completes the data analysis for monthly system influent and effluent samples, including EDD development and submittal to CDM Smith.



## 7.0 Conclusions and Recommendations

### 7.1 Conclusions

#### 7.1.1 Groundwater Treatment System

When operational, the GWTS successfully addresses the contamination coming from under the Subaru dealership building by removing COCs from groundwater and preventing downgradient migration. Historical concentration plots were generated from all analytical results at the GWTS and are in **Appendix F**.

The GWTS combined influent historical concentration plot shows a general decrease of cDCE, TCE, and VC. The PCE concentration continues to fluctuate with an average concentration of 298 µg/L for the current compliance period.

There were no periods of significant downtime associated with GWTS operations in 2024, with no clear continuous decrease in COC concentrations observed. Spikes in COC concentrations are irregular and do not indicate a trend due to season, rather the spikes point towards increased residence time correlating to periods when the GWTS is partially or fully nonoperational. Because the system remained consistently operational throughout 2024, no such spikes in COC concentrations were observed.

The GWTS treated approximately 10,088,704 gallons of water between February 5 and December 20, 2024, which is in line with historical trends. The average combined influent PCE concentrations in 2024 increased to 298 µg/L in 2024, which may be a result of the additional residence time that occurred in late 2022 through early 2023, allowing groundwater to come in contact with residually contaminated soils under the Subaru dealership building. Even still, this shows progress toward meeting the remedial objectives as stated in the ROD by reducing the concentrations from the 700-750 µg/L range reported in 2008 and 2009. PCE was detected in effluent at concentrations below the SPDES Permit Limit of 0.7 µg/L in July and August 2024. PCE was not detected in combined effluent samples collected during the remainder of 2024.

#### 7.1.2 Annual Groundwater Sampling

CDM Smith collected groundwater elevation data from forty-five (45) groundwater monitoring wells located on and off-site between April 21 and May 1, 2025. CDM Smith sampled. All wells sampled in 2025 were gauged on April 21, 2025. (**Appendix E** Table 4). The following conclusions generated by CDM Smith are based on an evaluation and interpretation of the groundwater monitoring data collected between 2008 and 2025.

Groundwater flow at this Site consists of shallow and deeper groundwater flow zones. Intermediate depth wells appear to be in the same unconfined aquifer as the shallow wells. Water in the shallow, intermediate, and deep zones flows towards the Croton River from the south. There may be drawdown in the shallow and intermediate zones from pumping activities adjacent to the extraction wells.

The annual groundwater sampling events took place in April and May 2025. The bullets below provide a summary of the 2025 results.

- The PCE concentration in ERT-EW-5 (3,000 µg/L) was an order of magnitude higher than all historical sampling events dating back to May 2008. The previously highest concentration for PCE in ERT-EW-5 was 920 µg/L in May 2011.
- Two plumes of PCE are present at the site as well as two smaller contaminant areas: the area radiating from TH-7 across the Croton River to DGC-9I, DGC-16I, and DGC-17I; the smaller area northeast of the Croton River around DGC-1I; the area emanating from ERT-EW-5; and the small Former Dry Well area emanating from ERT-6I.
- While one plume of TCE has been present historically, the January 2022 source zone investigation revealed two concentrated potential source zones in the Subaru dealership area. One area of source material beneath the dealership structure, and another in the Former Dry Well area east of the dealership. The 2022 and 2023 annual sampling data supports the delineation of two explicit plumes at the dealership rather than one interconnected plume beneath the building as previously suggested. The TCE contaminant areas include: an area emanating from ERT-EW-5, the small Former Dry Well area emanating from ERT-6I; and the area radiating from TH-7 southeast to DGC-9I, DGC-16I, and DGC-17I. The areas near the Croton River have lower concentrations of TCE with a maximum concentration of 1.5 µg/L at TH-7 in 2022 and 0.77 µg/L in 2023.
- cDCE contaminant areas include: an area emanating from ERT-EW-5 east to ERT-EW-6 and ERT-EW-7; an area radiating outward from DGC-7I north to TDGC-9I and west to TH-7; and the small Former Dry Well area to the west of the Subaru dealership emanating from ERT-6I.
- One VC plume was present radiating from ERT-6I in 2022. Two plumes of VC were present in 2023: radiating from ERT-6I; and radiating from ERT-1S in between extraction wells ERT-EW-5 and ERT-EW-6.

Statistical trend analyses suggest concentrations for PCE, TCE, cDCE, and VC are decreasing across the Site, excluding extraction well ERT-EW-5 for cDCE. Additionally, historical drawdown near the extraction wells and a sharp decrease in concentration north of the extraction wells suggests sufficient containment of the contaminant plume, when the GWTS is operational. Thus, decreasing concentrations of contaminants north of the extraction wells are most likely related to natural attenuation. Concentration trends south of the extraction wells were unable to be determined. Continued monitoring will show whether the trend of decreasing concentrations of COCs over the Site is maintained.

Review of the historical data showed one VOC plume from the source area at the current location of the treatment system towards the old groundwater treatment system location (immediately East of Brady Stannard dealership) and old extraction wells EW1 through EW4. When this system was shut down and the new system started, it may have created a split in the plume in the vicinity of the Brady Stannard dealership which resides to the North of the former Alben Cleaners Site, leaving part of the plume north of Sodom Rd. Further monitoring in this area is recommended to be sure concentrations continue to decrease.

The concentrations at the apparent source zone near ERT-6I continue to decrease; however, the average concentration of influent at the GWTS had plateaued from 2010 through mid-2019. A significant

increase in combined influent concentration was noted after an estimated three-week period of system nonoperation in 2020 which in turn resulted in an increase in average influent concentration. Another significant increase in combined influent concentration was observed in April 2021, corresponding to the temporary shutdown of ERT-EW-5 on two occasions for maintenance. Additionally, the steadily high concentrations of COCs suggest that groundwater is being impacted by a significant source under the building.

## 7.2 Recommendations

CDM Smith makes the following recommendations for the Brewster Well Field site.

- No changes to O&M, inspections, sampling and reporting are recommended at this time.
- Implement the proposed Injection Pilot Study to achieve the Site remedial goals in a more timely and efficient manner.



## 8.0 References

New York State Department of Environmental Conservation (NYSDEC). 1998. *Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*. June.

U.S. Environmental Protection Agency (EPA). 2012. *Third Five-Year Review Report for Brewster Well Field Site Village of Brewster Putnam County, New York*. April.

———. 2007. *Five-Year Review Report for Brewster Well Field Site Village of Brewster Putnam County, New York*. April.

———. 1988. *EPA Superfund Record of Decision for Brewster Well Field OU02 Putnam County, NY*. October.

———. 1986. *EPA Superfund Record of Decision for Brewster Well Field OU01 Putnam County, NY*. September.



# Appendix A 2024 Sub-Slab Depressurization Systems Periodic Operations Visit Forms



# Periodic Operations Visit Form

 Check box if new sys info
System ID: Date of Visit: Owner Name: Date Installed: System Address: Telephone: City:  Zip: Alt. Telephone: Performed By: Site No: Company: Site Name: 

## Fan Operation Confirmation

EXTERIOR

	Fan #1	Fan #2	Fan #3
Fan Model No(s).	<input type="text" value="HS2750"/>	<input type="text"/>	<input type="text"/>
Is Fan Operating (arrival)?	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
Confirmation Method	<input type="text" value="Sound"/>	<input type="text"/>	<input type="text"/>
Is Fan Operating (departure)?	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No

Requested to inspect interior system components?  Yes  NoIf yes, when and by whom?  Date: 

INTERIOR

## Structural Review

Notes

Change in building footprint since last inspection?  Yes  NoBasement occupied (>4 hrs per day)?  Yes  NoHeating/ventilation system modifications?  Yes  NoCrawlspace inspected?  Yes  NoLarge cracks in floor or near sumps?  Yes  NoWall penetrations or cracks noted?  Yes  No

## Piping, Slab & Wall

Are system suction points sealed?  Yes  NoIs piping system in need of repair?  Yes  No

## Miscellaneous

Are manometer levels equal?  Yes  NoAre system labels accurate and applied correctly?  Yes  NoMaintenance completed (check all that apply):  Replace fan  Seal pipe  Electrical  Other

Describe repairs made and any proposed actions requiring a subsequent visit (if necessary):






# Periodic Operations Visit Form

 Check box if new sys info
System ID: Date of Visit: Owner Name: Date Installed: System Address: Telephone: City:  Zip: Alt. Telephone: Performed By: Site No: Company: Site Name: 

## Fan Operation Confirmation

EXTERIOR

	Fan #1	Fan #2	Fan #3
Fan Model No(s).	<input type="text" value="S/N 121908"/>	<input type="text"/>	<input type="text"/>
Is Fan Operating (arrival)?	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
Confirmation Method	<input type="text" value="Sound"/>	<input type="text"/>	<input type="text"/>
Is Fan Operating (departure)?	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No

Requested to inspect interior system components?  Yes  NoIf yes, when and by whom?  Date: 

INTERIOR

## Structural Review

Notes

Change in building footprint since last inspection?  Yes  NoBasement occupied (>4 hrs per day)?  Yes  NoHeating/ventilation system modifications?  Yes  NoCrawlspace inspected?  Yes  NoLarge cracks in floor or near sumps?  Yes  NoWall penetrations or cracks noted?  Yes  No

## Piping, Slab & Wall

Are system suction points sealed?  Yes  NoIs piping system in need of repair?  Yes  No

## Miscellaneous

Are manometer levels equal?  Yes  NoAre system labels accurate and applied correctly?  Yes  NoMaintenance completed (check all that apply):  Replace fan  Seal pipe  Electrical  Other

Describe repairs made and any proposed actions requiring a subsequent visit (if necessary):





# Periodic Operations Visit Form

 Check box if new sys info
System ID: SDS-3Date of Visit: 7/9/2024Owner Name: Brewster Subaru - Nelson DeMello

Date Installed: \_\_\_\_\_

System Address: 1021 Route 22Telephone: 845-278-8300City: Brewster Zip: 10509

Alt. Telephone: \_\_\_\_\_

Performed By: S. NissenSite No: 340012Company: CDM SmithSite Name: Brewster Village Well Field

## Fan Operation Confirmation

EXTERIOR

	Fan #1	Fan #2	Fan #3
Fan Model No(s).	<u>0712-3</u>	_____	_____
Is Fan Operating (arrival)?	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
Confirmation Method	<u>Sound</u>	_____	_____
Is Fan Operating (departure)?	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No

Requested to inspect interior system components?  Yes  No

If yes, when and by whom? \_\_\_\_\_ Date: \_\_\_\_\_

INTERIOR

## Structural Review

Notes

Change in building footprint since last inspection?  Yes  No \_\_\_\_\_Basement occupied (>4 hrs per day)?  Yes  No No BasementHeating/ventilation system modifications?  Yes  No \_\_\_\_\_Crawlspace inspected?  Yes  No No CrawlspaceLarge cracks in floor or near sumps?  Yes  No \_\_\_\_\_Wall penetrations or cracks noted?  Yes  No \_\_\_\_\_

## Piping, Slab & Wall

Are system suction points sealed?  Yes  No \_\_\_\_\_Is piping system in need of repair?  Yes  No \_\_\_\_\_

## Miscellaneous

Are manometer levels equal?  Yes  No N/AAre system labels accurate and applied correctly?  Yes  No \_\_\_\_\_Maintenance completed (check all that apply):  Replace fan  Seal pipe  Electrical  Other

Describe repairs made and any proposed actions requiring a subsequent visit (if necessary):





# Periodic Operations Visit Form

 Check box if new sys info
System ID: SDS-4Date of Visit: 7/9/2024Owner Name: Brewster Subaru - Nelson DeMello

Date Installed: \_\_\_\_\_

System Address: 1021 Route 22Telephone: 845-278-8300City: Brewster Zip: 10509

Alt. Telephone: \_\_\_\_\_

Performed By: S. NissenSite No: 340012Company: CDM SmithSite Name: Brewster Village Well Field

## Fan Operation Confirmation

EXTERIOR

	Fan #1	Fan #2	Fan #3
Fan Model No(s).	<u>1006-4</u>	_____	_____
Is Fan Operating (arrival)?	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
Confirmation Method	<u>Sound</u>	_____	_____
Is Fan Operating (departure)?	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No

Requested to inspect interior system components?  Yes  No

If yes, when and by whom? \_\_\_\_\_ Date: \_\_\_\_\_

INTERIOR

## Structural Review

Notes

Change in building footprint since last inspection?  Yes  No \_\_\_\_\_Basement occupied (>4 hrs per day)?  Yes  No No BasementHeating/ventilation system modifications?  Yes  No \_\_\_\_\_Crawlspace inspected?  Yes  No No CrawlspaceLarge cracks in floor or near sumps?  Yes  No \_\_\_\_\_Wall penetrations or cracks noted?  Yes  No \_\_\_\_\_

## Piping, Slab & Wall

Are system suction points sealed?  Yes  No \_\_\_\_\_Is piping system in need of repair?  Yes  No \_\_\_\_\_

## Miscellaneous

Are manometer levels equal?  Yes  No \_\_\_\_\_Are system labels accurate and applied correctly?  Yes  No \_\_\_\_\_Maintenance completed (check all that apply):  Replace fan  Seal pipe  Electrical  Other

Describe repairs made and any proposed actions requiring a subsequent visit (if necessary):





# Periodic Operations Visit Form

 Check box if new sys info
System ID: Date of Visit: Owner Name: Date Installed: System Address: Telephone: City:  Zip: Alt. Telephone: Performed By: Site No: Company: Site Name: 

## Fan Operation Confirmation

EXTERIOR

	Fan #1	Fan #2	Fan #3
Fan Model No(s).	<input type="text" value="HS2750"/>	<input type="text"/>	<input type="text"/>
Is Fan Operating (arrival)?	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
Confirmation Method	<input type="text" value="Sound"/>	<input type="text"/>	<input type="text"/>
Is Fan Operating (departure)?	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No

Requested to inspect interior system components?  Yes  NoIf yes, when and by whom?  Date: 

INTERIOR

## Structural Review

Notes

Change in building footprint since last inspection?  Yes  NoBasement occupied (>4 hrs per day)?  Yes  NoHeating/ventilation system modifications?  Yes  NoCrawlspace inspected?  Yes  NoLarge cracks in floor or near sumps?  Yes  NoWall penetrations or cracks noted?  Yes  No

## Piping, Slab & Wall

Are system suction points sealed?  Yes  NoIs piping system in need of repair?  Yes  No

## Miscellaneous

Are manometer levels equal?  Yes  NoAre system labels accurate and applied correctly?  Yes  NoMaintenance completed (check all that apply):  Replace fan  Seal pipe  Electrical  Other

Describe repairs made and any proposed actions requiring a subsequent visit (if necessary):





# Appendix B 2024 Groundwater Treatment and Sub-Slab Depressurization Systems Check Log Sheets

Brewster O&M Checklist		Date:	Personnel:
<b>Samples Collected:</b>			
RW-5 Influent		<input checked="" type="checkbox"/>	or N
RW-6 Influent		<input checked="" type="checkbox"/>	or N
RW-7 Influent		<input checked="" type="checkbox"/>	or N
Combined Influent		<input checked="" type="checkbox"/>	or N
Effluent		<input checked="" type="checkbox"/>	or N
<b>Blower Readings from VFD (using scroll function):</b>			
Output Amps (A)	14.2		
Motor Load (%)	29.7		
Output Voltage (V)	287		
DC Bus Voltage (V)	194		
Frequency Set Point (Hz)	58.0		
Output Frequency (Hz)	58.0		
Motor Speed (rpm)	3500		
<b>Air Stripper:</b>			
Pressure reading From Magnehelic (IWC)	17		
Clean Inlet Screen		<input checked="" type="checkbox"/>	or N
<b>Flow Readings:</b>			
EW-5 Flowrate (GPM)	16.30		
EW-5 Totalizer (Gallons)	3,147,356		
EW-6 Flowrate (GPM)	5.32		
EW-6 Totalizer (Gallons)	3,618,085		
EW-7 Flowrate (GPM)	18.94		
EW-7 Totalizer (Gallons)	9,452,420		
<b>General Maintenance:</b>			
Sweep Floor		<input checked="" type="checkbox"/>	or N
Check VFD Filters		<input checked="" type="checkbox"/>	or N
Check Garbage		<input checked="" type="checkbox"/>	or N
Check first Aid/eyewash		<input checked="" type="checkbox"/>	or N
Knock Back tall Grass and Weeds		<input checked="" type="checkbox"/>	or N

Fan Number	Readings (inches of water)	Notes
1	1	
2	9	
3	9	
4	12	
5	10	

**COMMENTS: Note Treatment Equipment & Building/Site Conditions / Needs List**Date 2-5-24

There is a box truck by the 6WTS. Looks abandoned, took pictures and did not touch truck. Will email NYSDEC PM about this matter.

Brewster O&M Checklist		Date: 3-11-24	Personnel: CDM Smith
<b>Samples Collected:</b>			
EW-5 Influent		<input checked="" type="checkbox"/>	or N
EW-6 Influent		<input checked="" type="checkbox"/>	or N
EW-7 Influent		<input checked="" type="checkbox"/>	or N
Combined Influent		<input checked="" type="checkbox"/>	or N
Effluent		<input checked="" type="checkbox"/>	or N
<b>Blower Readings from VFD (using scroll function):</b>			
Output Amps (A)	14.0		
Motor Load (%)	<del>28.5</del> 28.4		
Output Voltage (V)	287		
DC Bus Voltage (V)	194		
Frequency Set Point (Hz)	58.0		
Output Frequency (Hz)	58.0		
Motor Speed (rpm)	3500		
<b>Air Stripper:</b>			
Pressure reading From Magnehelic (IWC)		18	
Clean Inlet Screen		<input checked="" type="checkbox"/>	or N
<b>Flow Readings:</b>			
EW-5 Flowrate (GPM)	16.43		
EW-5 Totalizer (Gallons)	3190025		
EW-6 Flowrate (GPM)	5.39		
EW-6 Totalizer (Gallons)	3884245		
EW-7 Flowrate (GPM)	18.77		
EW-7 Totalizer (Gallons)	10405050		
<b>General Maintenance:</b>			
Sweep Floor		<input checked="" type="checkbox"/>	or N
Check VFD Filters		<input checked="" type="checkbox"/>	or N
Check Garbage		<input checked="" type="checkbox"/>	or N
Check first Aid/eyewash		<input checked="" type="checkbox"/>	or N
Knock Back tall Grass and Weeds		Y	or <input checked="" type="checkbox"/>

Fan Number	Readings (inches of water)	Notes
1	6.6	
2	8	
3	7	
4	8	
5	10	

**COMMENTS: Note Treatment Equipment & Building/Site Conditions / Needs List**

Date 3-11-24

VFD Screen needs cleaning. First Aid Kit had some expired items - needs replacing.

Brewster O&M Checklist		Date: 4-18-24	Personnel: CDM Smith
<b>Samples Collected:</b>			
EW-5 Influent		<input checked="" type="checkbox"/>	or N
EW-6 Influent		<input checked="" type="checkbox"/>	or N
EW-7 Influent		<input checked="" type="checkbox"/>	or N
Combined Influent		<input checked="" type="checkbox"/>	or N
Effluent		<input checked="" type="checkbox"/>	or N
<b>Blower Readings from VFD (using scroll function):</b>			
Output Amps (A)		14.0	
Motor Load (%)		26.5	
Output Voltage (V)		240	
DC Bus Voltage (V)		145	
Frequency Set Point (Hz)		50.0	
Output Frequency (Hz)		50.0	
Motor Speed (rpm)		2500	
<b>Air Stripper:</b>			
Pressure reading From Magnehelic (IWC)		17.0	
Clean Inlet Screen			Y or N
<b>Flow Readings:</b>			
EW-5 Flowrate (GPM)		17.41	
EW-5 Totalizer (Gallons)		5270950	
EW-6 Flowrate (GPM)		5.14	
EW-6 Totalizer (Gallons)		4154025	
EW-7 Flowrate (GPM)		17.72	
EW-7 Totalizer (Gallons)		11360740	
<b>General Maintenance:</b>			
Sweep Floor		<input checked="" type="checkbox"/>	or N
Check VFD Filters		<input checked="" type="checkbox"/>	or N
Check Garbage		<input checked="" type="checkbox"/>	or N
Check first Aid/eyewash		<input checked="" type="checkbox"/>	or N
Knock Back tall Grass and Weeds		<input checked="" type="checkbox"/>	or N

Fan Number	Readings (inches of water)	Notes
1	16	
2	9	
3	12	
4	7	
5	8	

**COMMENTS: Note Treatment Equipment & Building/Site Conditions / Needs List**

Date 4-18-24

VFD needs cleaning. Eye wash to expire in May 2024. First aid kit had some expired items - needs replacing

Brewster O&M Checklist		Date: 5-13-24	Personnel: CDM Smith
<b>Samples Collected:</b>			
EW-5 Influent		<input checked="" type="checkbox"/>	or N
EW-6 Influent		<input checked="" type="checkbox"/>	or N
EW-7 Influent		<input checked="" type="checkbox"/>	or N
Combined Influent		<input checked="" type="checkbox"/>	or N
Effluent		<input checked="" type="checkbox"/>	or N
<b>Blower Readings from VFD (using scroll function):</b>			
Output Amps (A)		13.9	
Motor Load (%)		28.4	
Output Voltage (V)		29.0	
DC Bus Voltage (V)		195	
Frequency Set Point (Hz)		58.0	
Output Frequency (Hz)		58.0	
Motor Speed (rpm)		3500	
<b>Air Stripper:</b>			
Pressure reading From Magnehelic (IWC)		17	
Clean Inlet Screen		<input checked="" type="checkbox"/>	or N
<b>Flow Readings:</b>			
EW-5 Flowrate (GPM)		16.86	
EW-5 Totalizer (Gallons)		3321955	
EW-6 Flowrate (GPM)		4.94	
EW-6 Totalizer (Gallons)		4339517	
EW-7 Flowrate (GPM)		16.91	
EW-7 Totalizer (Gallons)		11982584	
<b>General Maintenance:</b>			
Sweep Floor		<input checked="" type="checkbox"/>	or N
Check VFD Filters		<input checked="" type="checkbox"/>	or N
Check Garbage		<input checked="" type="checkbox"/>	or N
Check first Aid/eyewash		<input checked="" type="checkbox"/>	or N
Knock Back tall Grass and Weeds		<input checked="" type="checkbox"/>	or N

Fan Number	Readings (inches of water)	Notes
1	14	
2	10	
3	13	
4	8	
5	9	Moisture on gauge

**COMMENTS: Note Treatment Equipment & Building/Site Conditions / Needs List**

Date 5-13-24

Eye wash expired, Follie cream and eye salve in first aid kit expired.



Department of Environmental Conservation



DATE: Monday, June 3, 2024

REPORT NO. 2024-06-03

PAGE NO. 1 OF 10

SITE NO. 340012

LOGBOOK NO.

### DAILY FIELD ACTIVITY REPORT

<b>PROJECT</b>	Brewster Village Well Field	<b>WEATHER</b>	<b>TIME</b>	<b>TEMP.</b>	<b>PRECIP.</b>	<b>WIND (MPH)</b>	<b>WIND (DIR)</b>
<b>LOCATION</b>	1021 NY-22, Brewster, NY 10509	Sunny	0940	75 °F	None		
<b>ATTACHMENTS</b>	Photo Log, Field Map						

**SITE CONDITIONS:**

**WORK GOAL FOR DAY:** Perform Monthly O&M Inspection for Ground Water Treatment System and meet fire safety inspector for inspection

#### PERSONNEL ON SITE:

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Sydnee Nissen	CDM Smith, Inc.	0940	1130
Taisiana Smith	CDM Smith, Inc.	0940	1130
Arrianna Stark	CDM Smith, Inc.	0940	1130
Seth Armstrong	NYS Department of Homeland Security and Emergency Services	0940	0945

#### EQUIPMENT ON SITE:

TYPE	MODEL	TYPE	MODEL

#### HEALTH & SAFETY:

**PPE REQUIRED:**  LEVEL D    LEVEL C    LEVEL B    LEVEL A    **HASP? YES**

**SITE SAFETY OFFICER:** Sydnee Nissen

**H & S NOTES:** Be mindful of traffic, heat stress, ticks.



Department of Environmental Conservation



DATE: Monday, June 3, 2024

REPORT NO. 2024-06-3

PAGE NO. 2 OF 10

SITE NO. 340012

### DAILY FIELD ACTIVITY REPORT

#### DESCRIPTION OF WORK PERFORMED AND OBSERVED

Sydnee Nissen, Taisiana Smith, and Arrianna Stark of CDM Smith arrived at the Groundwater Treatment System (GWTS) at 0940. Seth Armstrong of NYS Division of Homeland Security and Emergency Services was already on site. Nissen opened the GWTS to allow Armstrong to complete the fire safety inspection. Nissen, Smith, and Stark proceeded to perform the Monthly O&M Inspection for the GWTS. The GWTS was operating without issue as shown in the inspection log provided on page 7 of this report. However, it was observed that the air stripper screen has significant buildup. CDM Smith will continue evaluating the monthly sampling results from the GWTS combined effluent to determine whether the air stripper screen requires cleaning. In reviewing the first aid equipment present it was found that some items in the first aid kit at the GWTS were expired and the emergency eye wash station water expired in May 2024. Aqueous samples collected during the inspection are summarized in the table below. Note that for the Combined Influent sample EW-5 was operational during the collection of this sample. All samples were dropped off for shipment to the Laboratory on 6/3/2024 as shown on the Chain of Custody form provided on page 9 of this report.

Sample Name	Sample Time	Analyses	Sample Type
Combined Influent	10:21	VOCs via Method 624	Groundwater
EW-5	10:23	VOCs via Method 624	Groundwater
EW-6	10:27	VOCs via Method 624	Groundwater
EW-7	10:30	VOCs via Method 624	Groundwater
Effluent	10:34	VOCs via Method 624	Groundwater
Trip Blank	N/A – pre-filled by Laboratory	VOCs via Method 624	N/A – pre-filled by Laboratory

Upon completion of the GWTS inspection, the GWTS was secured with the lock. CDM Smith personnel then proceeded to perform the Sub Slab Depressurization System (SSDS) inspection. The SSDS was operating without issue as shown on page 8 of this report. Photographs of the vacuum pressure readings for each SSDS fan are provided in the Photograph Log of this report.

CDM Smith Personnel proceeded to investigate the former Brady Stannard Dealership site to document the activities occurring on site. The spoils pile observed during the previous O&M inspection was still present. It was found that excavation at that location is ongoing, and it is likely that the monitoring wells present at the Brady Stannard Dealership were damaged during these activities. One monitoring well cover was present near the construction area. Photographs of this are provided in the Photograph Log of this report. The monitoring wells nearest to the lone MW cover, DCG-3S and DGC-3I, appeared to remain in good condition.

All crew off site at 1130 to drop off samples for shipment to Laboratory.

PREPARED BY (OBSERVER):

REVIEWED BY:

PRINT NAME: Sydnee Nissen

PRINT NAME: Amy E. Picunas

NYSDEC Site No. 340012 Brewster Village Well Field  
Photograph Log Date: May 13, 2024



**Photo 1:** SDS-1 operating at 16 inches of water column vacuum.



**Photo 2:** SDS-2 operating at 9 inches of water column vacuum.



**Photo 3:** SDS-3 operating at 12 inches of water column vacuum.



**Photo 4:** SDS-4 operating at 8 inches of water column vacuum.

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	3 of 10	NYSDEC	Brewster Village Well Field Brewster, NY

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Photograph Log Date: May 13, 2024**



**Photo 5:** SDS-5 operating at 8 inches of water column vacuum.



**Photo 6:** Monitoring well cover located near the former Brady-Stannard dealership.



**Photo 7:** Former Brady-Stannard dealership. Spoils pile remains in the NW corner of the lot. Trenches have been dug within the site.



**Photo 8:** Site of former Brady-Stannard Dealership is for sale.

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	4 of 10	NYSDEC	Brewster Village Well Field Brewster, NY

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Photograph Log Date: May 13, 2024**

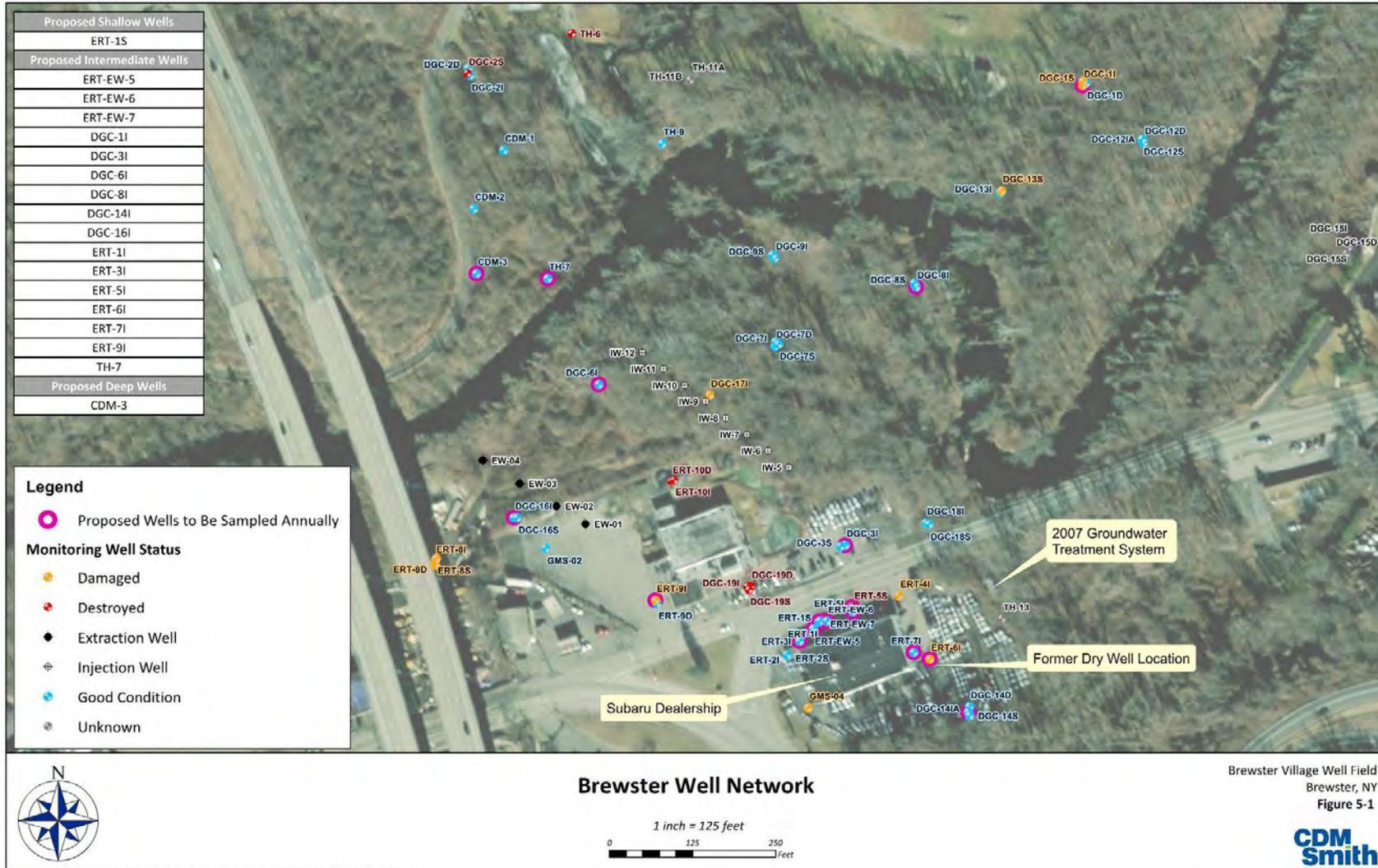


**Photo 9:** Metal debris and trenches at Brady-Stannard site, within construction fence.

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	5 of 10	NYSDEC	Brewster Village Well Field Brewster, NY

# NYSDEC Site No. 340012 Brewster Village Well Field

## Site Inspection Observations: May 13, 2024



CDM Smith Job No. 247379- Task3O&M.2024	Photographs Taken By: Sydnee Nissen	Page No. 6 of 10	Client: NYSDEC	Site Name & Address: Brewster Village Well Field Brewster, NY
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**NYSDEC Site No. 340012 Brewster Village Well Field  
Site Inspection Observations: May 13, 2024**

Page: 6

<b>Brewster O&amp;M Checklist</b>	<b>Date:</b>	<b>Personnel:</b>
<b>Samples Collected:</b>		
EW-5 Influent		<input checked="" type="checkbox"/> or N
EW-6 Influent		<input checked="" type="checkbox"/> or N
EW-7 Influent		<input checked="" type="checkbox"/> or N
Combined Influent		<input checked="" type="checkbox"/> or N
Effluent		<input checked="" type="checkbox"/> or N
<b>Blower Readings from VFD (using scroll function):</b>		
Output Amps (A)	13.2	
Motor Load (%)	25.5	
Output Voltage (V)	290	
DC Bus Voltage (V)	195	
Frequency Set Point (Hz)	58.0	
Output Frequency (Hz)	58.0	
Motor Speed (rpm)	3500	
<b>Air Stripper:</b>		
Pressure reading From Magnehelic (IWC)	17	
Clean Inlet Screen		Y or N
<b>Flow Readings:</b>		
EW-5 Flowrate (GPM)	17.10	
EW-5 Totalizer (Gallons)	3360021	
EW-6 Flowrate (GPM)	4.96	
EW-6 Totalizer (Gallons)	4483634	
EW-7 Flowrate (GPM)	16.3	
EW-7 Totalizer (Gallons)	12460193	
<b>General Maintenance:</b>		
Sweep Floor		<input checked="" type="checkbox"/> or N
Check VFD Filters		<input checked="" type="checkbox"/> or N
Check Garbage		<input checked="" type="checkbox"/> or N
Check first Aid/eyewash		<input checked="" type="checkbox"/> or N
Knock Back tall Grass and Weeds		Y or <input checked="" type="checkbox"/> N/A

*SHU - special*

CDM Smith Job No. 247379- Task3O&M.2024	Photographs Taken By: Sydnee Nissen	Page No. 7 of 10	Client: NYSDEC	Site Name & Address: Brewster Village Well Field Brewster, NY
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**NYSDEC Site No. 340012 Brewster Village Well Field  
Site Inspection Observations: May 13, 2024**

Page: 7

Fan Number	Readings (inches of water)	Notes
1	16	
2	9	
3	12	
4	8	
5	8	

**COMMENTS: Note Treatment Equipment & Building/Site Conditions / Needs List**

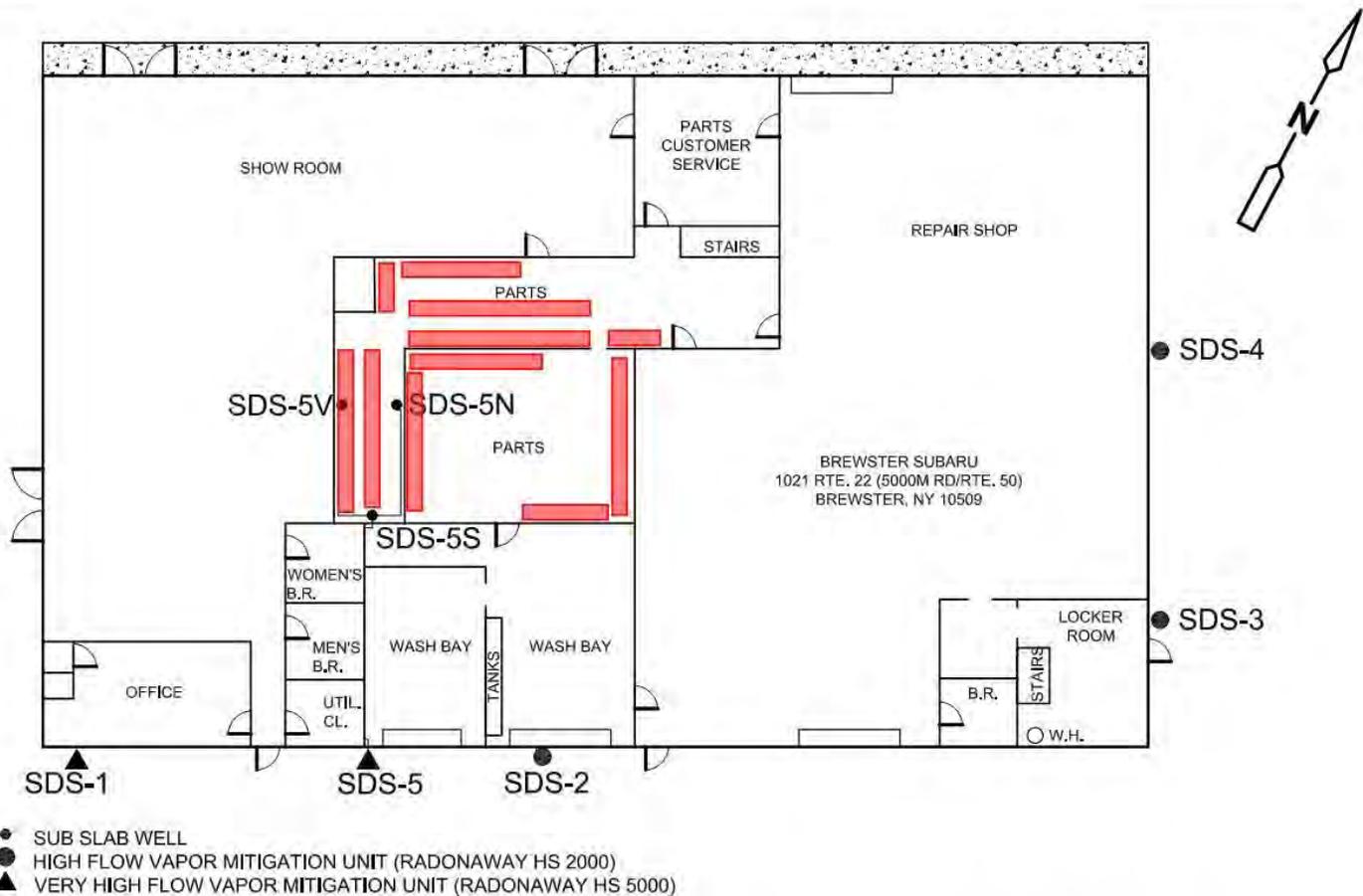
Date \_\_\_\_\_

*Handwritten notes in the comments section are mostly illegible due to blurriness and bleed-through. Some faint words like "checking" and "water" are visible.*

CDM Smith Job No. 247379- Task3O&M.2024	Photographs Taken By: Sydnee Nissen	Page No. 8 of 10	Client: NYSDEC	Site Name & Address: Brewster Village Well Field Brewster, NY
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**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Site Inspection Observations: May 13, 2024**



Camp Dresser McKee & Smith

Sketch of Shelving Units

Diagram not to scale

Approximate location of Shelving

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task30&M.2024	Sydnee Nissen	10 of 10	NYSDEC	Brewster Village Well Field Brewster, NY



Department of Environmental Conservation



DATE: Friday, July 19, 2024

REPORT NO. 2024-07-19

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SITE NO. 340012

LOGBOOK NO.

### DAILY FIELD ACTIVITY REPORT

<b>PROJECT</b>	Brewster Village Well Field	<b>WEATHER</b>	<b>TIME</b>	<b>TEMP.</b>	<b>PRECIP.</b>	<b>WIND (MPH)</b>	<b>WIND (DIR)</b>
<b>LOCATION</b>	1021 NY-22, Brewster, NY 10509	Sunny	0900	75 °F	None		
<b>ATTACHMENTS</b>	Photo Log, Field Map						

**SITE CONDITIONS:**

**WORK GOAL FOR DAY:** Perform Monthly O&M Inspection for Ground Water Treatment System.

#### PERSONNEL ON SITE:

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Sydnee Nissen	CDM Smith, Inc.	0855	1000
Matt Renko	CDM Smith, Inc.	0855	1000

#### EQUIPMENT ON SITE:

TYPE	MODEL	TYPE	MODEL
PID	RKI GX-6000		

#### HEALTH & SAFETY:

**PPE REQUIRED:**       LEVEL D       LEVEL C       LEVEL B       LEVEL A      **HASP? YES**

**SITE SAFETY OFFICER:** Sydnee Nissen

**H & S NOTES:** Be mindful of traffic, heat stress, ticks. Full-facepiece respirators were donned to enter the GWTS Conex box due to the damage to the vent pipe and the risk that the air stripper was venting into the box rather than through the pipe. A PID was used to screen the air inside the GWTS, and it was determined that there were no VOCs venting into the GWTS.



Department of Environmental Conservation



DATE: Friday, July 19, 2024

REPORT NO. 2024-07-19

PAGE NO. 2 OF 9

SITE NO. 340012

### DAILY FIELD ACTIVITY REPORT

#### DESCRIPTION OF WORK PERFORMED AND OBSERVED

Matt Renko and Sydnee Nissen of CDM Smith arrived at the Groundwater Treatment System (GWTS) at 8:55 am. Upon arrival, a visual inspection of the exterior of the GWTS was performed. Two of the three guy wires were still attached to the vent pipe, but the pipe had moved since the inspection on July 9. See photo log. Other than the vent pipe, the GWTS was operating without issue and no other damage was observed.

Prior to entering the GWTS, Nissen and Renko donned full-face respirators in case the air stripper had been venting inside the GWTS rather than through the vent pipe. A PID was used to screen the air for VOCs. There were no detections of VOCs inside the GWTS, so the inspection and sampling continued normally. The air stripper screens still appear to have buildup, but CDM Smith will continue to monitor the monthly sampling of the effluent to determine whether they require cleaning. Aqueous samples collected are summarized in the table below. All samples were dropped off for shipment to the lab on 7/19/2024.

Sample Name	Sample Time	Analyses	Sample Type
Combined Influent	9:30	VOCs via Method 624	Groundwater
EW-5	9:35	VOCs via Method 624	Groundwater
EW-6	9:40	VOCs via Method 624	Groundwater
EW-7	9:45	VOCs via Method 624	Groundwater
Effluent	9:50	VOCs via Method 624	Groundwater
Trip Blank	N/A – pre-filled by Laboratory	VOCs via Method 624	N/A – pre-filled by Laboratory

CDM Smith personnel performed the inspection of the Sub Slab Depressurization System (SSDS) fans at the former Brewster Subaru building. The SSDS was operating without issue. Photographs of the vacuum pressure readings for each SSDS fan are provided in the Photograph Log of this report.

The former Brewster Subaru building remains vacant, with some furniture and equipment still inside the building and in the parking lot. There was little change in the former Brady-Stannard site’s status from the previous visit. The spoils pile remains in the NW corner of the lot, and trenching and excavation activities appear to be ongoing, though no work was happening at the time of the inspection.

Nissen and Renko left the site at 10:00 am.

PREPARED BY (OBSERVER):

REVIEWED BY:

PRINT NAME: Sydnee Nissen

PRINT NAME: Amy E. Picunas

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Photograph Log Date: July 19, 2024**



**Photo 1:** Exterior of GWTS. Vent pipe had moved since previous visit on 7/9/2024.



**Photo 2:** Different view of the vent pipe. 2 of the 3 guy wires are still connected to the pipe and Conex box.



**Photo 3:** One of the three guy wires; it is still attached to the pipe and the ground.



**Photo 4:** PID showing 0.0 ppm VOCs inside the GWTS.

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	3 of 9	NYSDEC	Brewster Village Well Field Brewster, NY

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Photograph Log Date: July 19, 2024**



**Photo 5:** Interior ceiling of GWTS shows no damage and air stripper system appears to be functioning without issue.



**Photo 4:** SDS-1 operating at 16 inches of water column vacuum (upper gauge). Lower gauge reads 12.



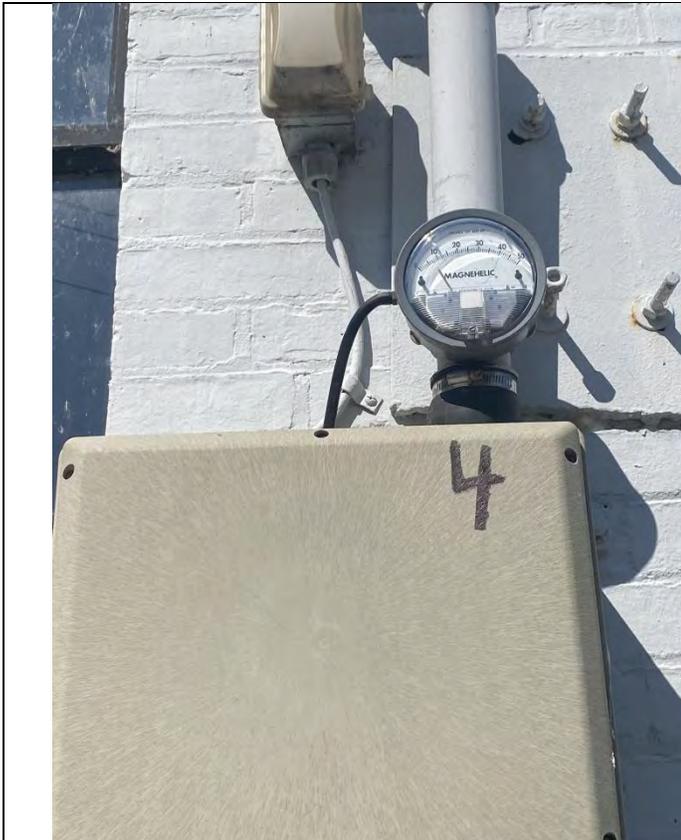
**Photo 5:** SDS-2 operating at 10 inches of water column vacuum.



**Photo 6:** SDS-3 operating at 12 inches of water column vacuum.

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	4 of 9	NYSDEC	Brewster Village Well Field Brewster, NY

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Photograph Log Date: July 19, 2024**



**Photo 7:** SDS-4 operating at 8 inches of water column vacuum.



**Photo 8:** SDS-5 operating at 9 inches of water column vacuum.



**Photo 9:** Former Brady-Stannard site, spoils pile remaining in NW corner of lot and excavation ongoing.



**Photo 10:** Former Brewster Subaru Dealership.

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	5 of 9	NYSDEC	Brewster Village Well Field Brewster, NY

**NYSDEC Site No. 340012 Brewster Village Well Field  
Site Inspection Observations: July 19, 2024**

Page: 6

Brewster O&M Checklist		Date: 7/19/2024	Personnel: Nissen & Review
<b>Samples Collected:</b>			
EW-5 Influent		<input checked="" type="checkbox"/>	or N
EW-6 Influent		<input checked="" type="checkbox"/>	or N
EW-7 Influent		<input checked="" type="checkbox"/>	or N
Combined Influent		<input checked="" type="checkbox"/>	or N
Effluent		<input checked="" type="checkbox"/>	or N
<b>Blower Readings from VFD (using scroll function):</b>			
Output Amps (A)	3	<del>58.0</del> 13.4	
Motor Load (%)	9	26.3	
Output Voltage (V)	4	289	
DC Bus Voltage (V)	7	196	
Frequency Set Point (Hz)	1	58.0	
Output Frequency (Hz)	2	58.0	
Motor Speed (rpm)		3500	
<b>Air Stripper:</b>			
Pressure reading From Magnehelic (IWC)		17	
Clean Inlet Screen			Y or N
<b>Flow Readings:</b>			
EW-5 Flowrate (GPM)		<del>0.0</del> 17.38	
EW-5 Totalizer (Gallons)		3606542	
EW-6 Flowrate (GPM)		4.76	
EW-6 Totalizer (Gallons)		4794571	
EW-7 Flowrate (GPM)		14.01	
EW-7 Totalizer (Gallons)		13436353	
<b>General Maintenance:</b>			
Sweep Floor			Y or N
Check VFD Filters			Y or N
Check Garbage			Y or N
Check first Aid/eyewash			Y or N
Knock Back tall Grass and Weeds			Y or N

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	6 of 9	NYSDEC	Brewster Village Well Field Brewster, NY

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Site Inspection Observations: July 19, 2024**

Page: 7

Fan Number	Readings (inches of water)		Notes
1	7 1/2	7 1/2	
2	16	14	other measurement at 12
3	10	10	
4	12	12	
5	7	8	
	8	9	

**COMMENTS: Note Treatment Equipment & Building/Site Conditions / Needs List**

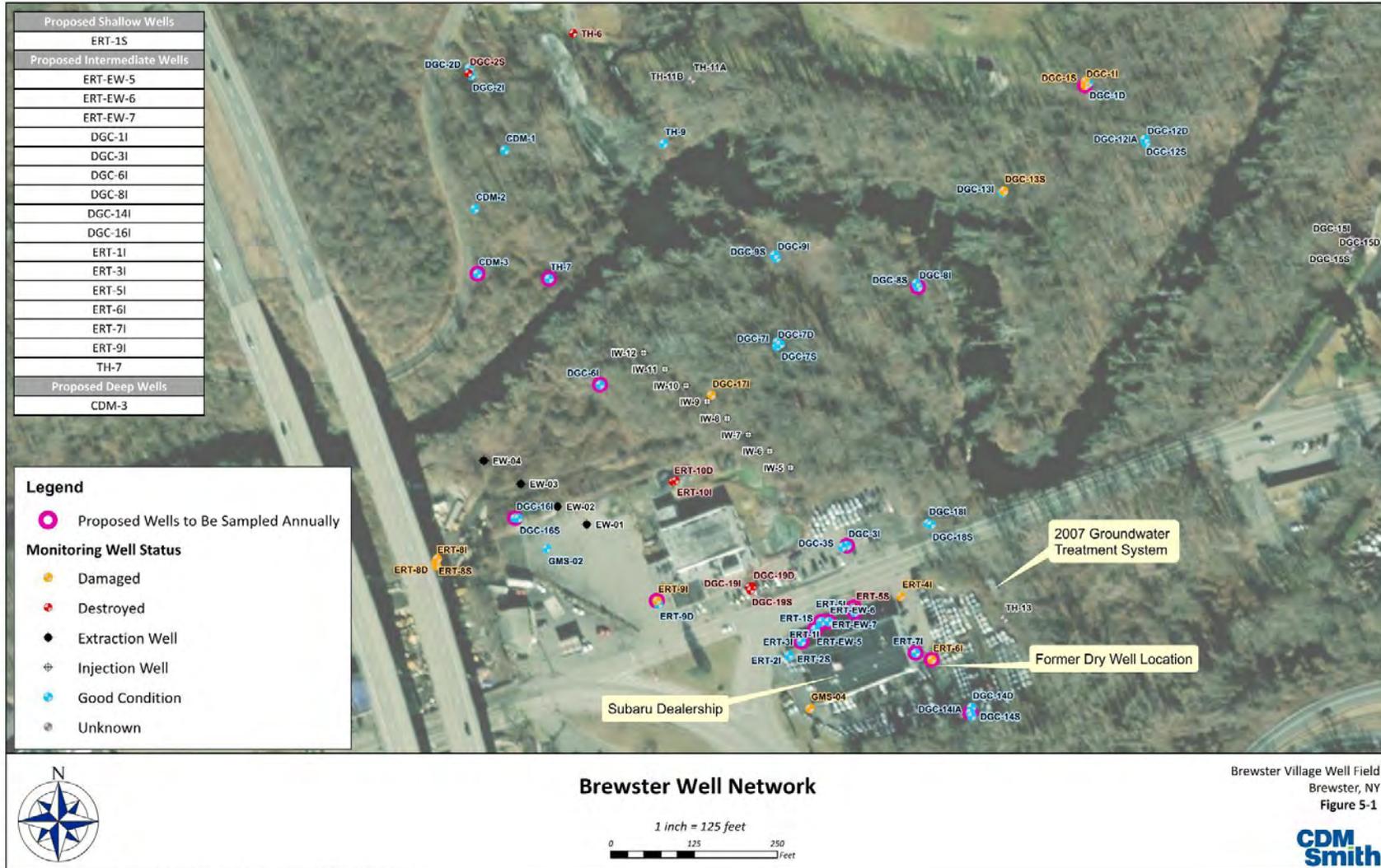
Date \_\_\_\_\_

*Handwritten notes in comments section:*  
 10/10  
 10/22  
 9/12 780  
 21/11

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	7 of 9	NYSDEC	Brewster Village Well Field Brewster, NY

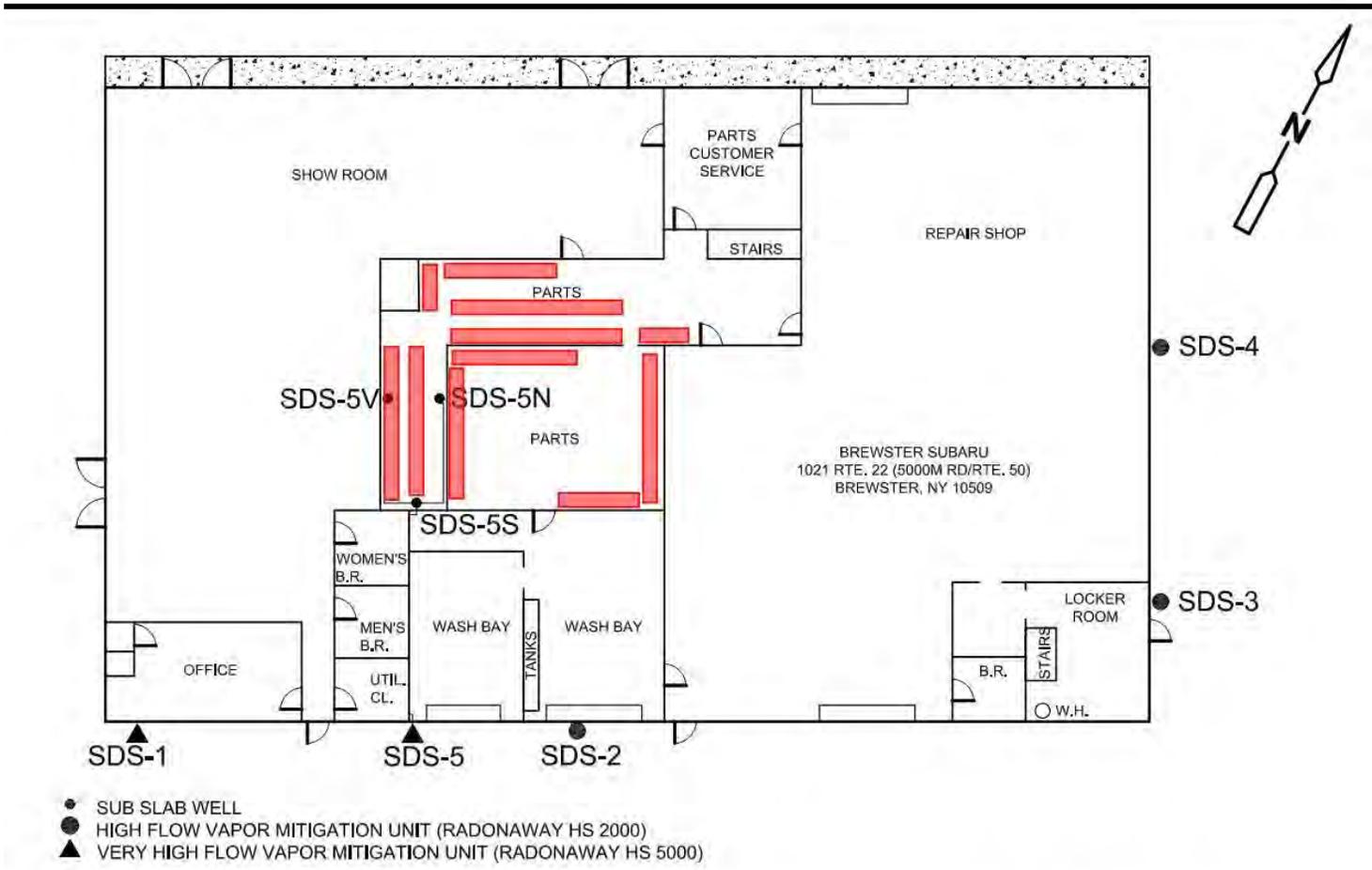
# NYSDEC Site No. 340012 Brewster Village Well Field

## Site Inspection Observations: July 19, 2024



CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	8 of 9	NYSDEC	Brewster Village Well Field Brewster, NY

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Site Inspection Observations: July 19, 2024**



Sketch of Shelving Units  
 Diagram not to scale  
■ Approximate location of Shelving

CDM Smith Job No. 247379- Task30&M.2024	Photographs Taken By: Sydnee Nissen	Page No. 9 of 9	Client: NYSDEC	Site Name & Address: Brewster Village Well Field Brewster, NY
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Department of Environmental Conservation



DATE: Wednesday, August 21, 2024

REPORT NO. 2024-08-21

PAGE NO. 1 OF 10

SITE NO. 340012

LOGBOOK NO.

### DAILY FIELD ACTIVITY REPORT

**PROJECT** Brewster Village Well Field

**LOCATION** 1021 NY-22, Brewster, NY 10509

**ATTACHMENTS** Photo Log, Field Map

**SITE CONDITIONS:**

WEATHER	TIME	TEMP.	PRECIP.	WIND (MPH)	WIND (DIR)
Clear	12:15	70 °F	None	7 MPH	NNW

**WORK GOAL FOR DAY:** Perform Monthly O&M Inspection for Ground Water Treatment System

#### PERSONNEL ON SITE:

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Sydnee Nissen	CDM Smith, Inc.	1215	1345

#### EQUIPMENT ON SITE:

TYPE	MODEL	TYPE	MODEL

#### HEALTH & SAFETY:

**PPE REQUIRED:**  LEVEL D  LEVEL C  LEVEL B  LEVEL A **HASP? YES**

**SITE SAFETY OFFICER:** Sydnee Nissen

**H & S NOTES:** Be mindful of traffic. Vent stack could be unstable.



Department of Environmental Conservation



DATE: Wednesday, August 21, 2024

REPORT NO. 2024-08-21

PAGE NO. 2 OF 10

SITE NO. 340012

### DAILY FIELD ACTIVITY REPORT

#### DESCRIPTION OF WORK PERFORMED AND OBSERVED

Sydnee Nissen of CDM Smith arrived at the Groundwater Treatment System (GWTS) at 1215 and proceeded to perform the Monthly O&M Inspection for the GWTS. The GWTS was operating without issue as shown in the inspection log provided on page 11 of this report. The vent stack does not appear to have moved since the last visit to the site. Aqueous samples collected during the inspection are summarized in the table below. Note that for the Combined Influent sample EW-5 was operational during the collection of this sample. All samples were dropped off for shipment to the Laboratory on 8/21/2024 as shown on the Chain of Custody form provided on page 13 of this report.

Sample Name	Sample Time	Analyses	Sample Type
Combined Influent	12:48	VOCs via Method 624	Groundwater
EW-5	12:50	VOCs via Method 624	Groundwater
EW-6	12:55	VOCs via Method 624	Groundwater
EW-7	12:58	VOCs via Method 624	Groundwater
Effluent	13:01	VOCs via Method 624	Groundwater
Trip Blank	N/A – pre-filled by Laboratory	VOCs via Method 624	N/A – pre-filled by Laboratory

Upon completion of the GWTS inspection, the GWTS was secured with the lock. Nissen then proceeded to perform the Sub Slab Depressurization System (SSDS) inspection. The SSDS was operating without issue as shown on page 12 of this report. Photographs of the vacuum pressure readings for each SSDS fan are provided in the Photograph Log of this report.

Once the SSDS inspection was completed Nissen documented that the parking lot of Brewster Subaru is being used as a staging area for road work equipment. Excavation activities at the former Brady-Stannard dealership site are still in progress. See photo log.

Nissen offsite at 1345 to drop off samples for shipment to Laboratory.

PREPARED BY (OBSERVER):

REVIEWED BY:

PRINT NAME: Sydnee Nissen

PRINT NAME: Amy E. Picunas

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Photograph Log Date: August 21, 2024**



**Photo 1:** GWTS exterior- vent stack does not appear to have moved since last visit.



**Photo 2:** Air stripper screens, being monitored to determine whether cleaning is necessary



**Photo 3:** Former Subaru dealership parking lot being used as a staging area.



**Photo 4:** Former Brady-Stannard site, excavation still in progress.

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	3 of 10	NYSDEC	Brewster Village Well Field Brewster, NY

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Photograph Log Date: August 21, 2024**



**Photo 5:** SDS-1 operating at 16 inches of water column vacuum.



**Photo 6:** SDS-2 operating at 10 inches of water column vacuum.



**Photo 7:** SDS-3 operating at 12 inches of water column vacuum.



**Photo 8:** SDS-4 operating at 7 inches of water column vacuum.

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	4 of 10	NYSDEC	Brewster Village Well Field Brewster, NY

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Photograph Log Date: August 21, 2024**

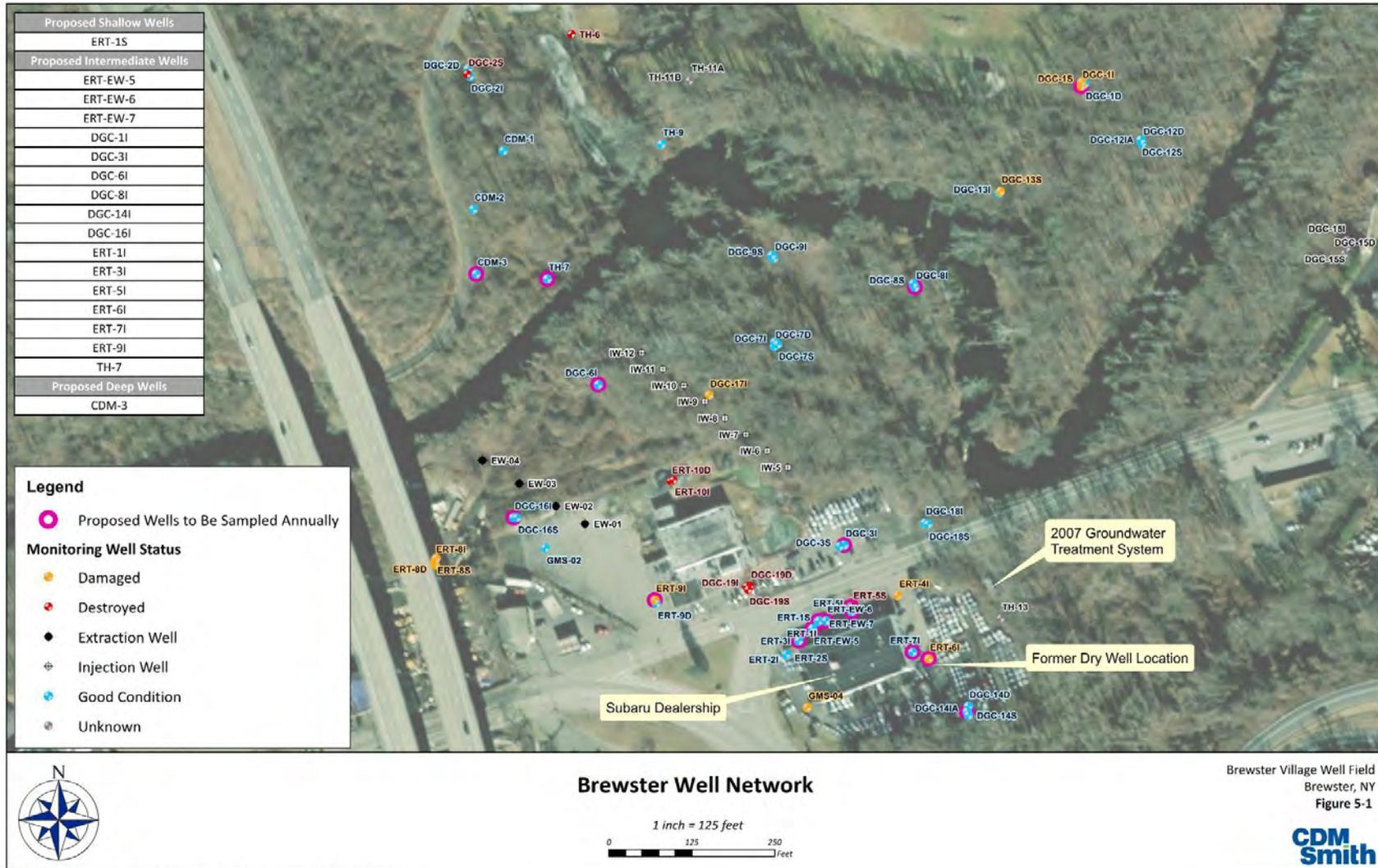


**Photo 9:** SDS-5 operating at 9 inches of water column vacuum.

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	5 of 10	NYSDEC	Brewster Village Well Field Brewster, NY

# NYSDEC Site No. 340012 Brewster Village Well Field

## Site Inspection Observations: August 21, 2024



CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	6 of 10	NYSDEC	Brewster Village Well Field Brewster, NY

**NYSDEC Site No. 340012 Brewster Village Well Field  
Site Inspection Observations: August 21, 2024**

<b>Brewster O&amp;M Checklist</b>	<b>Date:</b>	<b>Personnel:</b>
<b>Samples Collected:</b>		
EW-5 Influent		<input checked="" type="radio"/> Y or N
EW-6 Influent		<input checked="" type="radio"/> Y or N
EW-7 Influent		<input checked="" type="radio"/> Y or N
Combined Influent		<input checked="" type="radio"/> Y or N
Effluent		<input checked="" type="radio"/> Y or N
<b>Blower Readings from VFD (using scroll function):</b>		
Output Amps (A)		13.4
Motor Load (%)		25.9
Output Voltage (V)		28.7
DC Bus Voltage (V)		19.4
Frequency Set Point (Hz)		58.0
Output Frequency (Hz)		58.0
Motor Speed (rpm)		3500
<b>Air Stripper:</b>		
Pressure reading From Magnehelic (IWC)		17.5
Clean Inlet Screen		Y or N
<b>Flow Readings:</b>		
EW-5 Flowrate (GPM)		17.57
EW-5 Totalizer (Gallons)		3,752,857
EW-6 Flowrate (GPM)		4.74
EW-6 Totalizer (Gallons)		5,015,373
EW-7 Flowrate (GPM)		15.15
EW-7 Totalizer (Gallons)		1,411,584
<b>General Maintenance:</b>		
Sweep Floor		Y or N
Check VFD Filters		Y or N
Check Garbage		Y or N
Check first Aid/eyewash		Y or N
Knock Back tall Grass and Weeds		Y or N

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	7 of 10	NYSDEC	Brewster Village Well Field Brewster, NY

**NYSDEC Site No. 340012 Brewster Village Well Field  
Site Inspection Observations: August 21, 2024**

Page: 7

Fan Number	Readings (inches of water)	Notes
1	10	
2	10	
3	12	
4	7	
5	9	

**COMMENTS: Note Treatment Equipment & Building/Site Conditions / Needs List**

Date \_\_\_\_\_

1.81  
 5.24  
 7.85  
 4.91  
 0.88  
 0.80  
 0.00  
 1.72  
 1.21  
 1.21  
 2.05821  
 4.14  
 2.01823  
 12.12  
 14.11844

CDM Smith Job No. 247379- Task3O&M.2024	Photographs Taken By: Sydnee Nissen	Page No. 8 of 10	Client: NYSDEC	Site Name & Address: Brewster Village Well Field Brewster, NY
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# NYSDEC Site No. 340012 Brewster Village Well Field

## Site Inspection Observations: August 21, 2024

76520

**Chain of Custody / Analytical Request Form**

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 • +1 585 288 5380 • alsglobal.com

**Report To:** CDM Smith

Contact: Amy Picunas  
picunasae@cdmsmith.com  
Phone: (518) 782-49-20  
Address: 3 Lear Jet Ln. Ste 100N  
Latham, NY 12110

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER

Project Name: Brewster Village Well Field  
Project Number: 247379  
ALS Quote #: 97979  
Sampler's Signature: *Sydney Nissen*  
Email CC: hoffmanmt@cdmsmith.com  
nissen.sa@cdmsmith.com  
State Samples Collected (Circle or Write): NY, MA, PA, CT, Other:

SR#: \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

Lab ID (ALS)	Sample Collection Information:			Matrix	Number of Containers	MS/MSD?	GC/MS VOA - 8260 • 624 • 524 • TCLP	GC/MS SVOA - 8270 • 625 • TCLP	Pesticides - 8081 • 608 • TCLP	PCBs - 8082 • 608	Herbicides - 8151 • TCLP	Metals, Total - Select Below	Metals, Dissolved - Field / In-Lab Filter							
	Sample ID:	Date	Time																	
	COMBINED INFLUENT	8/21/24	12:48	GW	3															
	EW-5	8/21/24	12:50	GW	3															
	EW-6	8/21/24	12:55	GW	3															
	EW-7	8/21/24	12:58	GW	3															
	EFFLUENT	8/21/24	13:01	GW	3															
	TRIP BLANK				3															

Special Instructions / Comments:  
NYSDEC EQVIS EDD+ Cat B report requested

**Turnaround Requirements**

Rush (Surcharges Apply)

Subject to Availability\*

\*Please Check with your PM\*

Standard (10 Business Days)

Date Required: 9/5/24

**Report Requirements**

Tier II/Cat A - Results/QC

Tier IV/Cat B - Data Validation Report w/ Data

EDD:  Yes  No

EDD Type: NYSDEC EQVIS

**Metals:** RCRA 8 • PP 13 • TAL 23 • TCLP • Other (List)

VOA/SVOA Report List: TCL • BTEX • TCLP • CP-51/Stars • THM • Other:

Invoice To:  Same as Report To

PD #:

Company:

Contact:

Email:

Phone:

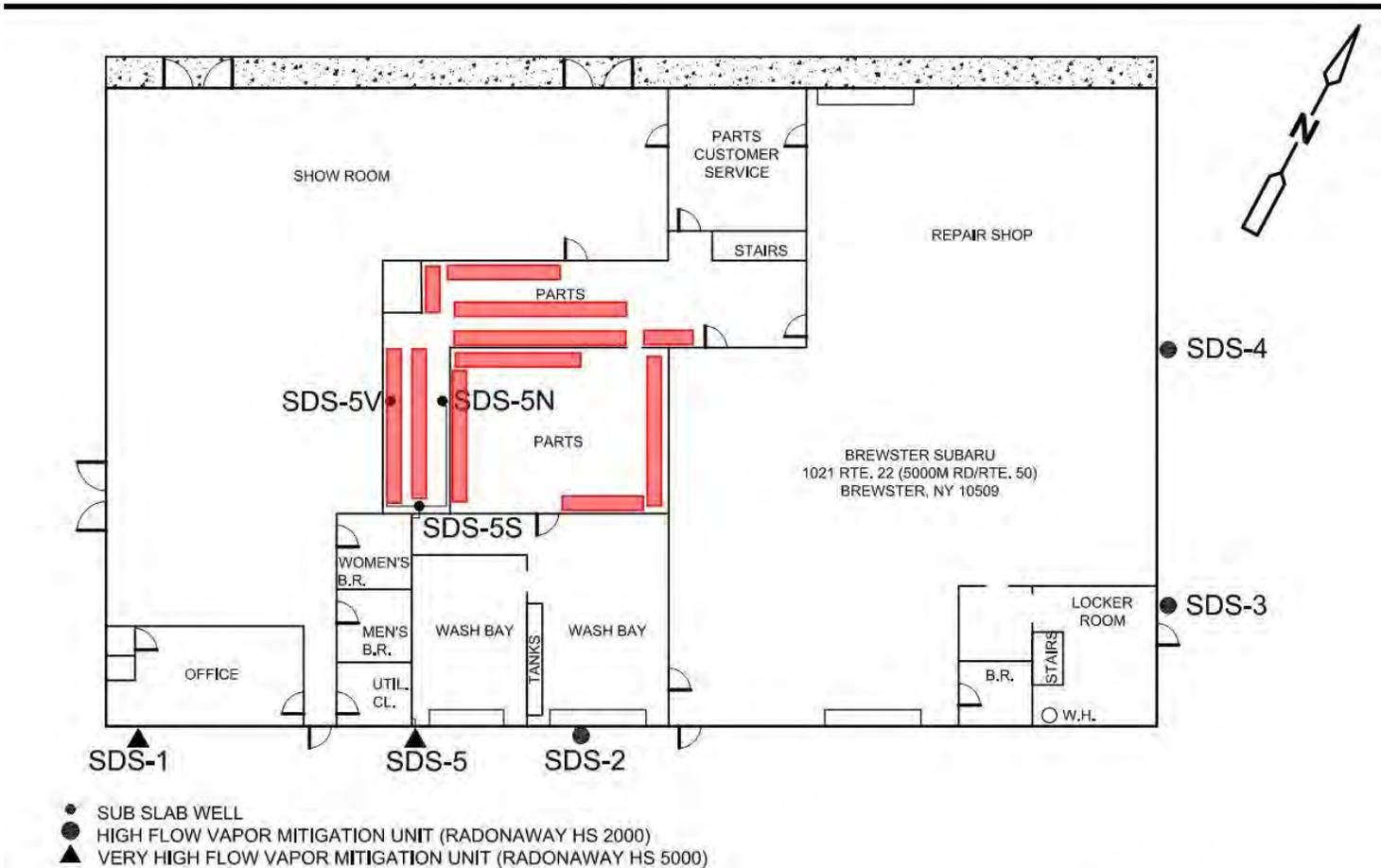
Address:

Signature	Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
<i>Sydney Nissen</i>	<i>Sydney Nissen</i>					
Printed Name	Sydney Nissen					
Company	CDM Smith					
Date/Time	8/21/24 10:17pm					

Distribution: White - Lab Copy; Yellow - Return to Originator

CDM Smith Job No. 247379- Task30&M.2024	Photographs Taken By: Sydney Nissen	Page No. 9 of 10	Client: NYSDEC	Site Name & Address: Brewster Village Well Field Brewster, NY
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**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Site Inspection Observations: August 21, 2024**



Sketch of Shelving Units  
 Diagram not to scale  
 Approximate location of Shelving

CDM Smith Job No. 247379- Task30&M.2024	Photographs Taken By: Sydnee Nissen	Page No. 10 of 10	Client: NYSDEC	Site Name & Address: Brewster Village Well Field Brewster, NY
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Department of Environmental Conservation



DATE: Thursday, September 19, 2024

REPORT NO. 2024-09-19

PAGE NO. 1 OF 10

SITE NO. 340012

LOGBOOK NO.

### DAILY FIELD ACTIVITY REPORT

**PROJECT** Brewster Village Well Field

**LOCATION** 1021 NY-22, Brewster, NY 10509

**ATTACHMENTS** Photo Log, Field Map

**SITE CONDITIONS:**

WEATHER	TIME	TEMP.	PRECIP.	WIND (MPH)	WIND (DIR)
Sunny	1245	80°	None	8	NNE

**WORK GOAL FOR DAY:** Perform Monthly O&M Inspection for Ground Water Treatment System

#### PERSONNEL ON SITE:

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Sydnee Nissen	CDM Smith, Inc.	12:45	14:00

#### EQUIPMENT ON SITE:

TYPE	MODEL	TYPE	MODEL

#### HEALTH & SAFETY:

**PPE REQUIRED:**  LEVEL D  LEVEL C  LEVEL B  LEVEL A **HASP? YES**

**SITE SAFETY OFFICER:** Sydnee Nissen

**H & S NOTES:** Be mindful of traffic. Vent stack could be unstable.



Department of  
Environmental  
Conservation



DATE: Thursday, September 19, 2024

REPORT NO. 2024-09-19

PAGE NO. 2 OF 10

SITE NO. 340012

## DAILY FIELD ACTIVITY REPORT

### DESCRIPTION OF WORK PERFORMED AND OBSERVED

Sydnee Nissen of CDM Smith arrived at the Groundwater Treatment System (GWTS) at 1245 and proceeded to perform the Monthly O&M Inspection for the GWTS. An attempt to repair the vent stack was made on 9/11/2024, but the repairs were not completed due to equipment issues, as detailed by Michael Hoffman of CDM Smith. Work is set to resume on 9/24/2024, with Environmental Assessment and Remediation (EAR) performing the work. As previously noted by Hoffman, the ProControl unit is having connectivity issues. Otherwise, the GWTS is operating normally.

Aqueous samples collected during the inspection are summarized in the table below. While collecting the Effluent sample, the plastic knob to open and close the spigot broke. The sample was still collected by opening and closing the spigot with pliers. The valve may require replacement due to rust, see photos on page 4.

Sample Name	Sample Time	Analyses	Sample Type
Combined Influent	13:10	VOCs via Method 624	Groundwater
EW-5	13:15	VOCs via Method 624	Groundwater
EW-6	13:18	VOCs via Method 624	Groundwater
EW-7	13:21	VOCs via Method 624	Groundwater
Effluent	13:26	VOCs via Method 624	Groundwater
Trip Blank	N/A – prefilled by Laboratory	VOCs via Method 624	N/A – prefilled by Laboratory

Upon completion of the GWTS inspection, the GWTS was secured with the lock. Nissen then proceeded to perform the Sub Slab Depressurization System (SSDS) inspection. The SSDS was operating without issue as shown on page 12 of this report. Photographs of the vacuum pressure readings for each SSDS fan are provided in the Photo Log of this report.

Once the SSDS inspection was completed Nissen documented that the parking lot of Brewster Subaru is being used as a staging area for road work equipment. The shipping container at the northwest corner of the Subaru building has been removed. Excavation activities at the former Brady-Stannard dealership site are still in progress.

Nissen offsite at 1400 to drop off samples for shipment to Laboratory. Samples were shipped via FedEx and arrived at the lab on 9/20/2024.

PREPARED BY (OBSERVER):

REVIEWED BY:

PRINT NAME: Sydnee Nissen

PRINT NAME: Amy E. Picunas

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Photograph Log Date: September 19, 2024**



**Photo 1:** GWTS exterior.



**Photo 2:** ProControl unit- the network light was off and the connect light was blinking during inspection.



**Photo 3:** Former Subaru dealership NW corner- shipping container removed.



**Photo 4:** Former Brady-Stannard site, excavation still in progress.

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	3 of 10	NYSDEC	Brewster Village Well Field Brewster, NY

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Photograph Log Date: September 19, 2024**



**Photo 5:** Knob for effluent valve.



**Photo 6:** Effluent spigot, missing the knob to open and close the valve. Significant rust is present.



**Photo 6:** SDS-1 operating at 16 inches of water column vacuum.



**Photo 7:** SDS-2 operating at 10 inches of water column vacuum.

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	4 of 10	NYSDEC	Brewster Village Well Field Brewster, NY

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Photograph Log Date: September 19, 2024**



**Photo 8:** SDS-3 operating at 12 inches of water column vacuum.



**Photo 9:** SDS-4 operating at 7 inches of water column vacuum.

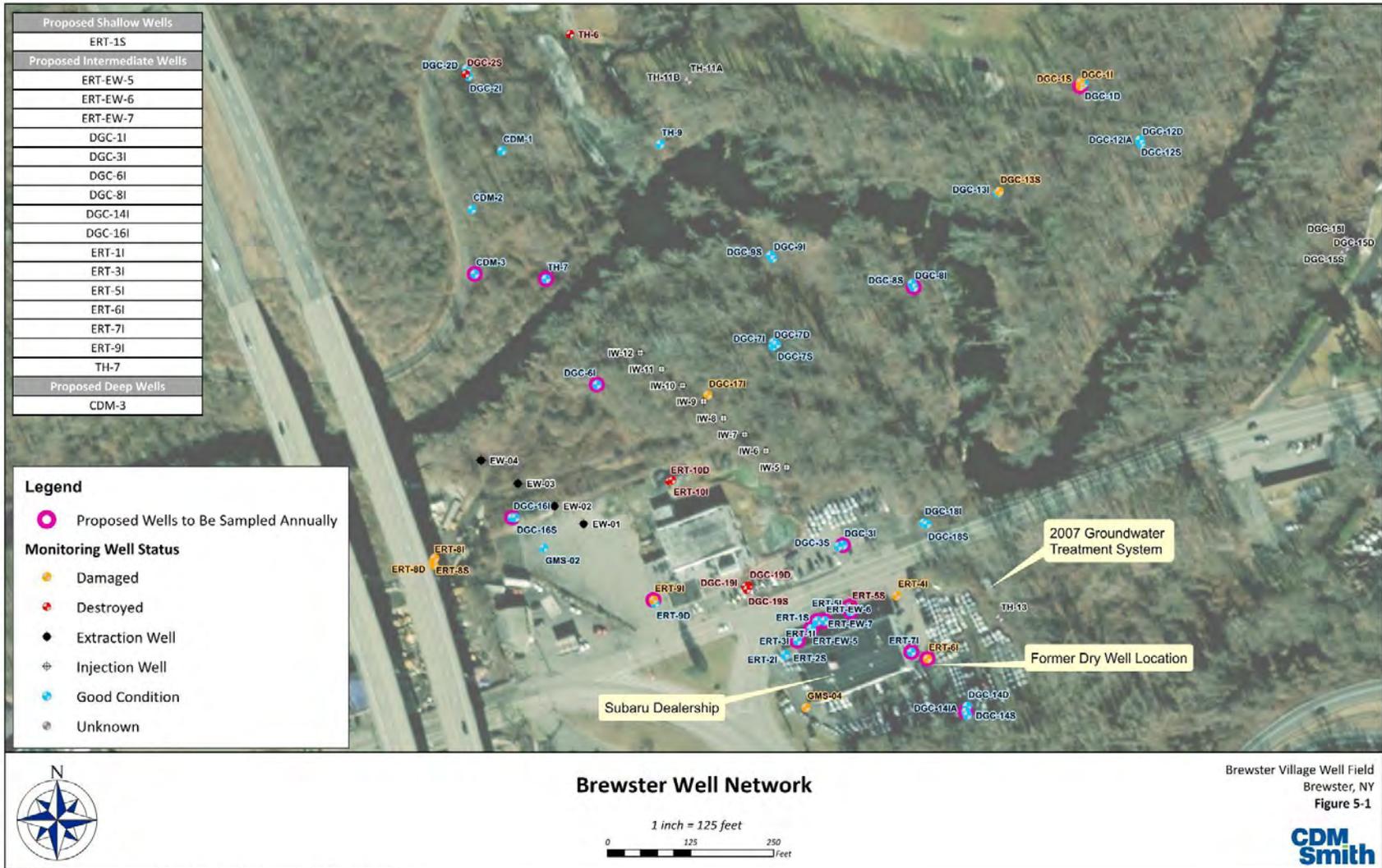


**Photo 10:** SDS-5 operating at 9 inches of water column vacuum.

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	5 of 10	NYSDEC	Brewster Village Well Field Brewster, NY

# NYSDEC Site No. 340012 Brewster Village Well Field

## Site Inspection Observations: September 19, 2024



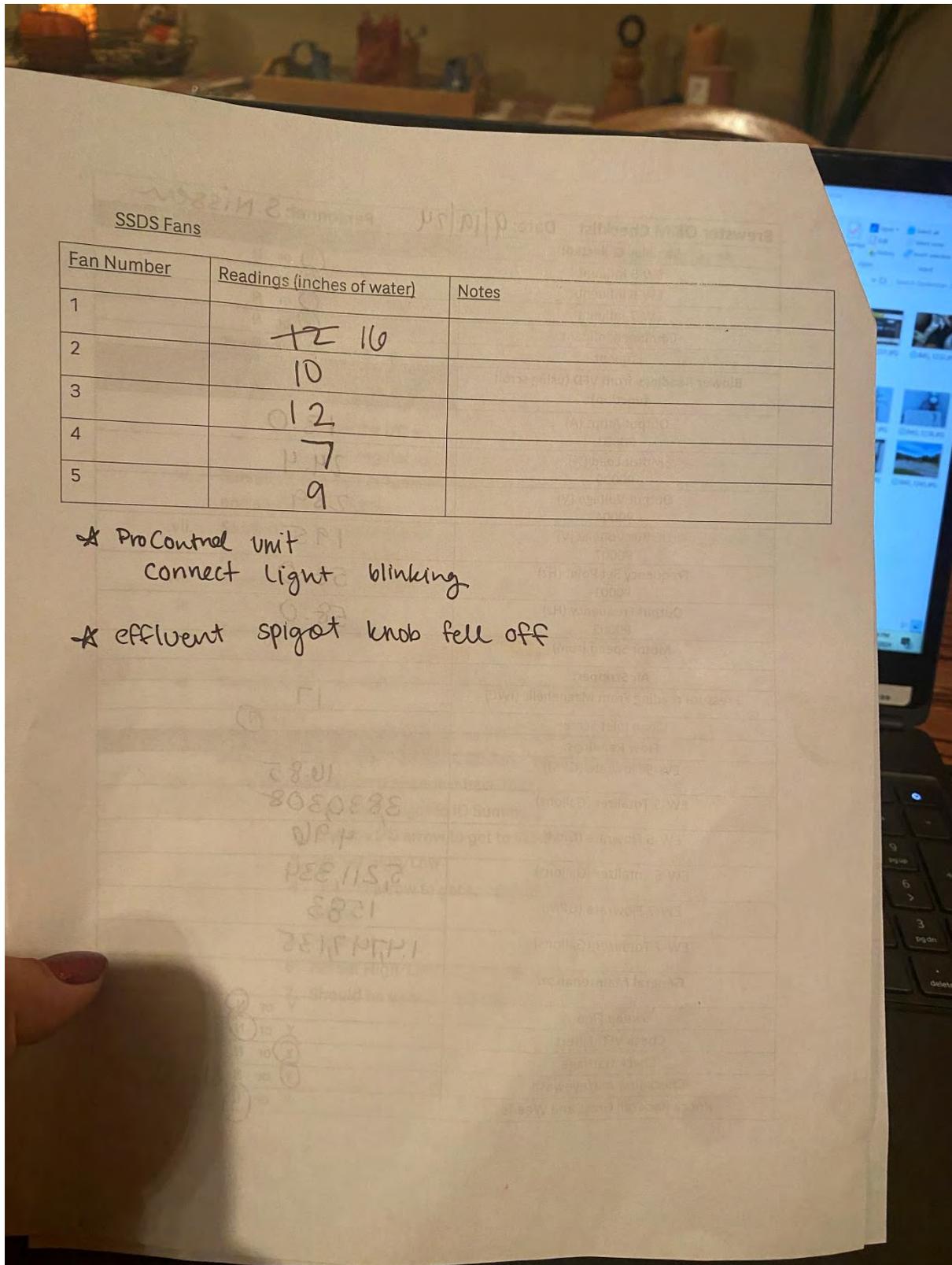
CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	6 of 10	NYSDEC	Brewster Village Well Field Brewster, NY

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Site Inspection Observations: September 19, 2024**

Brewster O&M Checklist		Date: 9/19/24	Personnel: S. Nissen
<b>Samples Collected:</b>			
EW-5 Influent		<input checked="" type="radio"/> Y	or N
EW-6 Influent		<input checked="" type="radio"/> Y	or N
EW-7 Influent		<input checked="" type="radio"/> Y	or N
Combined Influent		<input checked="" type="radio"/> Y	or N
Effluent		<input checked="" type="radio"/> Y	or N
<b>Blower Readings from VFD (using scroll function):</b>			
Output Amps (A) P0003		13.0	
Motor Load (%) P0009		24.4	
Output Voltage (V) P0004		289	
DC Bus Voltage (V) P0007		195	
Frequency Set Point (Hz) P0001		58.0	
Output Frequency (Hz) P0002		58.0	
Motor Speed (rpm)		3500	
<b>Air Stripper:</b>			
Pressure reading From Magnehelic (IWC)		17	
Clean Inlet Screen			Y or <input checked="" type="radio"/> N
<b>Flow Readings:</b>			
EW-5 Flowrate (GPM)		10.85	
EW-5 Totalizer (Gallons)		3,830,308	
EW-6 Flowrate (GPM)		4.96	
EW-6 Totalizer (Gallons)		5,211,334	
EW-7 Flowrate (GPM)		1583	
EW-7 Totalizer (Gallons)		1,4747,135	
<b>General Maintenance:</b>			
Sweep Floor			Y or <input checked="" type="radio"/> N
Check VFD Filters			Y or <input checked="" type="radio"/> N
Check Garbage			<input checked="" type="radio"/> X or N
Check first Aid/eyewash			<input checked="" type="radio"/> Y or N <i>Still expired</i>
Knock Back tall Grass and Weeds			Y or <input checked="" type="radio"/> N

CDM Smith Job No. 247379- Task3O&M.2024	Photographs Taken By: Sydnee Nissen	Page No. 7 of 10	Client: NYSDEC	Site Name & Address: Brewster Village Well Field Brewster, NY
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**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Site Inspection Observations: September 19, 2024**



SSDS Fans

Fan Number	Readings (inches of water)	Notes
1		
2	12 10	
3	10	
4	12	
5	7	
	9	

- \* ProControl unit connect light blinking
- \* effluent spigot knob fell off

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	8 of 10	NYSDEC	Brewster Village Well Field Brewster, NY

# NYSDEC Site No. 340012 Brewster Village Well Field

## Site Inspection Observations: September 19, 2024

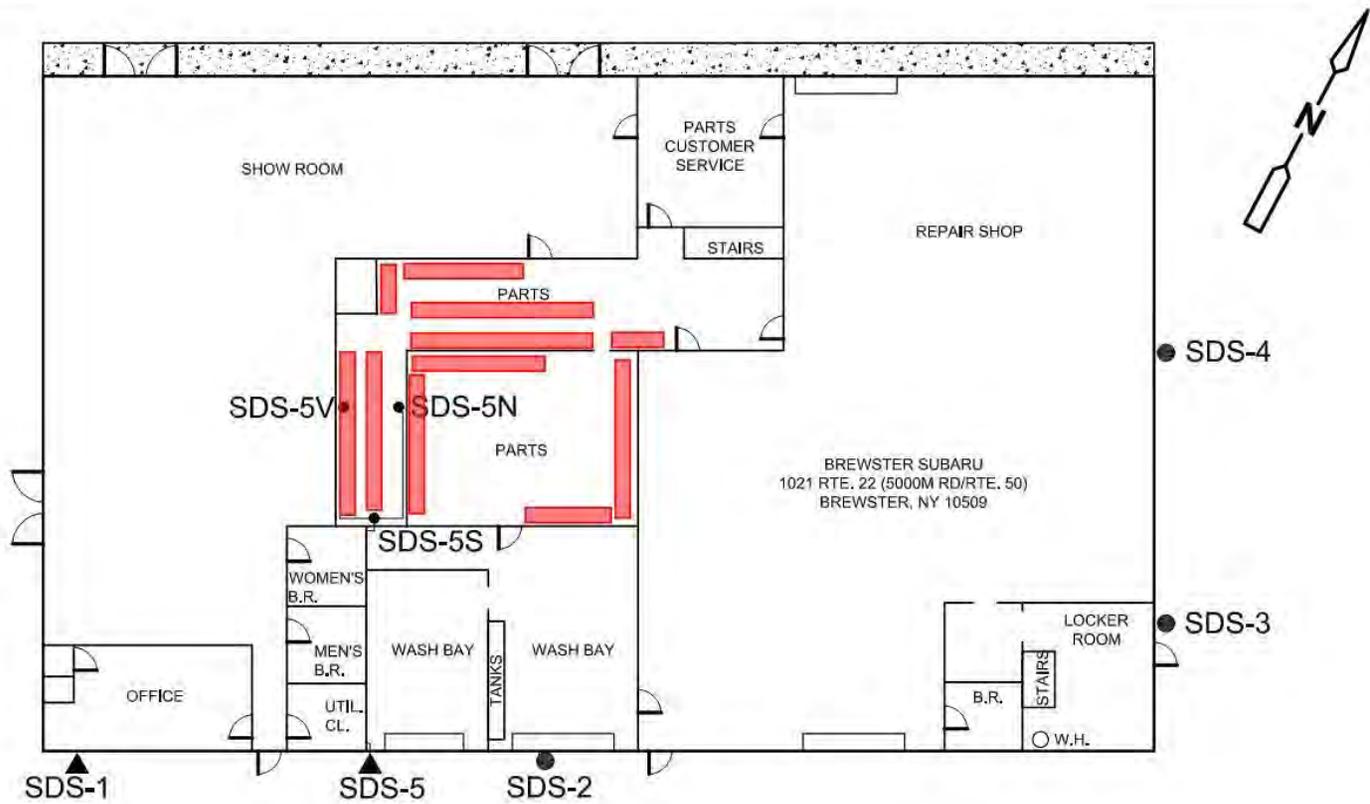
<b>Chain of Custody / Analytical Request Form</b>		76549	SR#: _____																																																																																																		
1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 • +1 585 288 5380 • alsglobal.com		Page _____ of _____																																																																																																			
<b>Report To:</b> Company: <u>CDM Smith</u> Contact: <u>Amy Picunas</u> Email: <u>picunasae@cdmsmith.com</u> Phone: <u>(518)782-4520</u> Address: <u>3 Lear Jet Ln</u> <u>Suite 100 N</u> <u>Latham, NY 12110</u>		<b>ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER</b> Project Name: <u>Brewster Village Well Field</u> Project Number: <u>247379</u> ALS Quote #: <u>97979</u> Sample Signatures: <u>Sydnee Nissen</u> Email CC: <u>nissensa@cdmsmith.com</u> Email CC: <u>hoffmanmt@cdmsmith.com</u> State Samples Collected (Circle or Write): <u>NY</u> MA, PA, CT, Other:																																																																																																			
<b>Sample Collection Information:</b> Lab ID (ALS): _____ Sample ID: _____ Date: _____ Time: _____		Preservative: <u>0</u> Matrix: _____ Number of Containers: _____ MS/MSD? _____ GC/MS VOA - 8260 <u>624</u> • TCLP GC/MS VOA - 8270 • 625 • TCLP Pesticides - 8081 • 608 • TCLP PCBs - 8082 • 608 Herbicides - 8151 • TCLP Metals, Total - Select Below Metals, Dissolved - Field / In-Lab Filter																																																																																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sample ID</th> <th>Date</th> <th>Time</th> <th>Matrix</th> <th>Number of Containers</th> <th>MS/MSD?</th> <th>GC/MS VOA - 8260</th> <th>GC/MS VOA - 8270</th> <th>Pesticides - 8081</th> <th>PCBs - 8082</th> <th>Herbicides - 8151</th> <th>Metals, Total</th> <th>Metals, Dissolved</th> <th>Notes:</th> </tr> </thead> <tbody> <tr> <td>COMBINED INFLUENT</td> <td>9/19/24</td> <td>13:10</td> <td>GW</td> <td>3</td> <td>N</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>EW-5</td> <td>9/19/24</td> <td>13:15</td> <td>GW</td> <td>3</td> <td>N</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>EW-6</td> <td>9/19/24</td> <td>13:18</td> <td>GW</td> <td>3</td> <td>N</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>EW-7</td> <td>9/19/24</td> <td>13:21</td> <td>GW</td> <td>3</td> <td>N</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>EFFLUENT</td> <td>9/19/24</td> <td>13:20</td> <td>GW</td> <td>3</td> <td>N</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TRIP BLANK</td> <td>—</td> <td>—</td> <td>—</td> <td>3</td> <td>N</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Sample ID	Date	Time	Matrix	Number of Containers	MS/MSD?	GC/MS VOA - 8260	GC/MS VOA - 8270	Pesticides - 8081	PCBs - 8082	Herbicides - 8151	Metals, Total	Metals, Dissolved	Notes:	COMBINED INFLUENT	9/19/24	13:10	GW	3	N	X								EW-5	9/19/24	13:15	GW	3	N	X								EW-6	9/19/24	13:18	GW	3	N	X								EW-7	9/19/24	13:21	GW	3	N	X								EFFLUENT	9/19/24	13:20	GW	3	N	X								TRIP BLANK	—	—	—	3	N	X								0. None 1. HCl 2. HNO3 3. H2SO4 4. NAOH 5. Zn Acet. 6. MeOH 7. NaHSO4 8. Other	
Sample ID	Date	Time	Matrix	Number of Containers	MS/MSD?	GC/MS VOA - 8260	GC/MS VOA - 8270	Pesticides - 8081	PCBs - 8082	Herbicides - 8151	Metals, Total	Metals, Dissolved	Notes:																																																																																								
COMBINED INFLUENT	9/19/24	13:10	GW	3	N	X																																																																																															
EW-5	9/19/24	13:15	GW	3	N	X																																																																																															
EW-6	9/19/24	13:18	GW	3	N	X																																																																																															
EW-7	9/19/24	13:21	GW	3	N	X																																																																																															
EFFLUENT	9/19/24	13:20	GW	3	N	X																																																																																															
TRIP BLANK	—	—	—	3	N	X																																																																																															
Special Instructions / Comments: <u>Cat B and NYSDEC EQUIS EDD requested</u>		<b>Turnaround Requirements</b> Rush (Surcharges Apply) _____ *Subject to Availability* *Please Check with your PM* <input checked="" type="checkbox"/> Standard (10 Business Days) Date Required: _____																																																																																																			
<b>Report Requirements</b> <input checked="" type="checkbox"/> Tier II/Cat A - Results/QC <input checked="" type="checkbox"/> Tier IV/Cat B - Data Validation Report w/. Data EDD: <input checked="" type="checkbox"/> Yes _____ No EDD Type: <u>NYSDEC Equis</u>		<b>Metals:</b> RCRA 8•PP 13•TAL 23•TCLP•Other (List) VOA/SVOA Report List: TCL • BTEX • TCLP • CP-51/Stars • THM • Other: _____ Invoice To: <input checked="" type="checkbox"/> Same as Report To																																																																																																			
Relinquished By: _____ Received By: _____ Signature: <u>Sydnee Nissen</u> Printed Name: <u>Sydnee Nissen</u> Company: <u>CDM Smith</u> Date/Time: <u>9/19/24 16:15</u>		Relinquished By: _____ Received By: _____ Relinquished By: _____ Received By: _____ Relinquished By: _____ Received By: _____ Relinquished By: _____ Received By: _____																																																																																																			

ution: White - Lab Copy; Yellow - Return to Originator

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CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	9 of 10	NYSDEC	Brewster Village Well Field Brewster, NY

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Site Inspection Observations: September 19, 2024**



- SUB SLAB WELL
- HIGH FLOW VAPOR MITIGATION UNIT (RADONAWAY HS 2000)
- ▲ VERY HIGH FLOW VAPOR MITIGATION UNIT (RADONAWAY HS 5000)



Sketch of Shelving Units  
 Diagram not to scale  
■ Approximate location of Shelving

CDM Smith Job No. 247379- Task30&M.2024	Photographs Taken By: Sydnee Nissen	Page No. 10 of 10	Client: NYSDEC	Site Name & Address: Brewster Village Well Field Brewster, NY
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Department of Environmental Conservation



DATE: Tuesday, October 15, 2024

REPORT NO. 2024-10-15

PAGE NO. 1 OF 10

SITE NO. 340012

LOGBOOK NO.

### DAILY FIELD ACTIVITY REPORT

**PROJECT** Brewster Village Well Field

**LOCATION** 1021 NY-22, Brewster, NY 10509

**ATTACHMENTS** Photo Log, Field Map

**SITE CONDITIONS:**

WEATHER	TIME	TEMP.	PRECIP.	WIND (MPH)	WIND (DIR)
Sunny	1230	55°	None	9	NNW

**WORK GOAL FOR DAY:** Perform Monthly O&M Inspection for Ground Water Treatment System

#### PERSONNEL ON SITE:

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Sydnee Nissen	CDM Smith, Inc.	12:30	14:30

#### EQUIPMENT ON SITE:

TYPE	MODEL	TYPE	MODEL

#### HEALTH & SAFETY:

**PPE REQUIRED:**  LEVEL D  LEVEL C  LEVEL B  LEVEL A **HASP? YES**

**SITE SAFETY OFFICER:** Sydnee Nissen

**H & S NOTES:** Be mindful of traffic.



Department of Environmental Conservation



DATE: Tuesday, October 15, 2024

REPORT NO. 2024-10-15

PAGE NO. 2 OF 10

SITE NO. 340012

### DAILY FIELD ACTIVITY REPORT

#### DESCRIPTION OF WORK PERFORMED AND OBSERVED

Sydnee Nissen of CDM Smith arrived at the Groundwater Treatment System (GWTS) at 1230 and proceeded to perform the Monthly O&M Inspection for the GWTS. As previously noted by Hoffman, the ProControl unit is having connectivity issues. Upon entering the GWTS, Nissen observed that there was some water on the floor around the air stripper. Upon further investigation, there was also water on the top of the air stripper, so it is likely that water is leaking in through the roof around the vent stack.

Aqueous samples collected during the inspection are summarized in the table below.

Sample Name	Sample Time	Analyses	Sample Type
Combined Influent	13:20	VOCs via Method 624	Groundwater
EW-5	13:23	VOCs via Method 624	Groundwater
EW-6	13:30	VOCs via Method 624	Groundwater
EW-7	13:33	VOCs via Method 624	Groundwater
Effluent	13:36	VOCs via Method 624	Groundwater
Trip Blank	N/A – pre-filled by Laboratory	VOCs via Method 624	N/A – pre-filled by Laboratory

Upon completion of the GWTS inspection, the GWTS was secured with the lock. Nissen then proceeded to perform the Sub Slab Depressurization System (SSDS) inspection. The SSDS was operating without issue as shown on page 12 of this report. Photographs of the vacuum pressure readings for each SSDS fan are provided in the Photo Log of this report.

Once the SSDS inspection was completed Nissen documented that the activities at the former Brady-Stannard dealership site are still in progress.

Nissen offsite at 1430.

PREPARED BY (OBSERVER):

REVIEWED BY:

PRINT NAME: Sydnee Nissen

PRINT NAME: Amy E. Picunas

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Photograph Log Date: October 15, 2024**



**Photo 1:** GWTS exterior.



**Photo 2:** Moisture present on the floor around the air stripper, likely leaked from roof.



**Photo 3:** Ceiling of GWTS, top of air stripper was wet.



**Photo 4:** Former Brady-Stannard site, excavation activities still in progress.

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	3 of 10	NYSDEC	Brewster Village Well Field Brewster, NY

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Photograph Log Date: October 15, 2024**



**Photo 6:** SDS-1 operating at 16 inches of water column vacuum.



**Photo 7:** SDS-2 operating at 9 inches of water column vacuum.



**Photo 8:** SDS-3 operating at 12 inches of water column vacuum.



**Photo 9:** SDS-4 operating at 7 inches of water column vacuum.

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	4 of 10	NYSDEC	Brewster Village Well Field Brewster, NY

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Photograph Log Date: October 15, 2024**

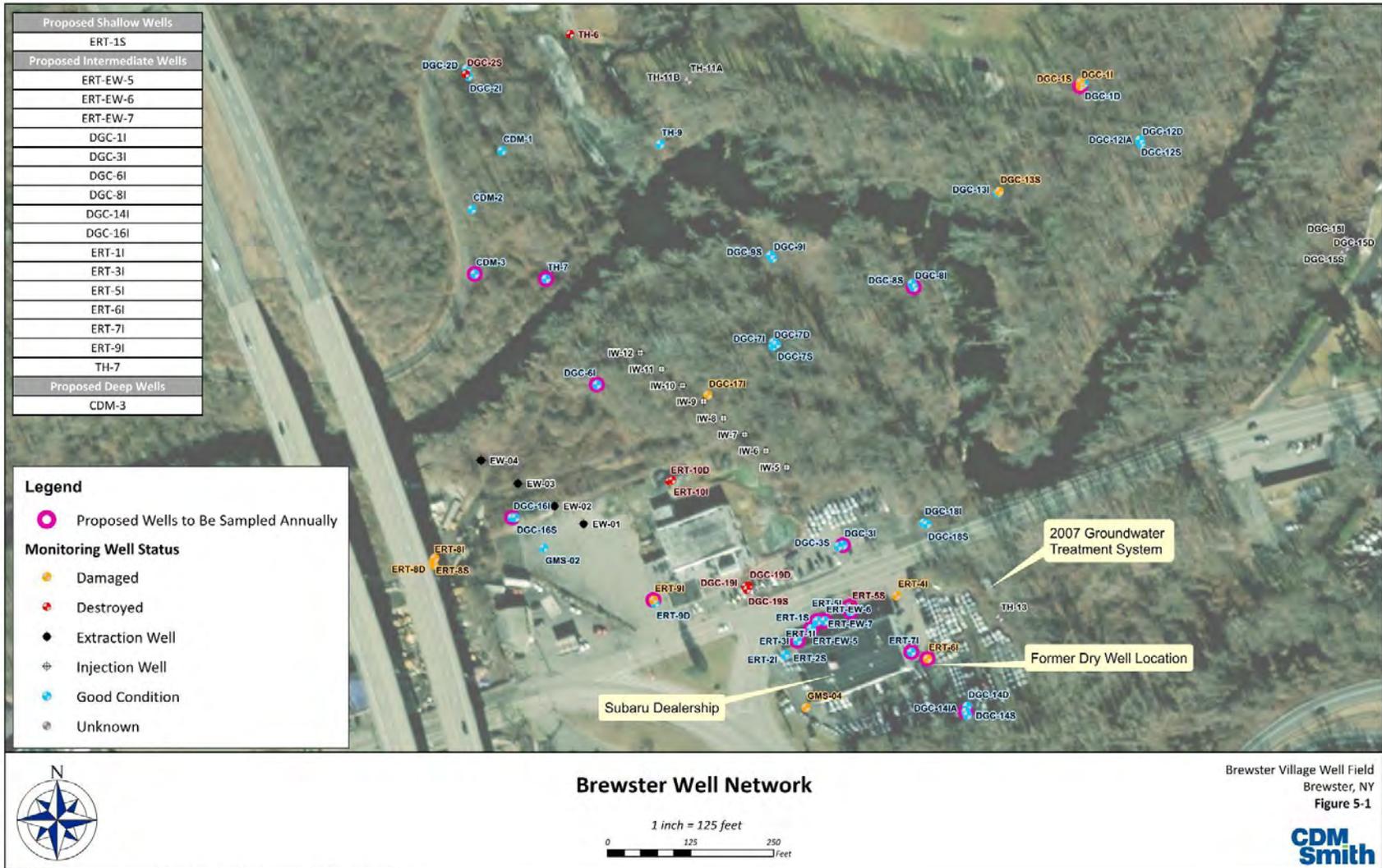


**Photo 10:** SDS-5 operating at 10 inches of water column vacuum.

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	5 of 10	NYSDEC	Brewster Village Well Field Brewster, NY

# NYSDEC Site No. 340012 Brewster Village Well Field

## Site Inspection Observations: October 15, 2024



CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	6 of 10	NYSDEC	Brewster Village Well Field Brewster, NY

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Site Inspection Observations: October 15, 2024**

Page: 5

<b>Brewster O&amp;M Checklist</b>		<b>Date:</b>	<b>Personnel:</b>
<b>Samples Collected:</b>			
EW-5 Influent			<input checked="" type="checkbox"/> or N
EW-6 Influent			<input checked="" type="checkbox"/> or N
EW-7 Influent			<input checked="" type="checkbox"/> or N
Combined Influent			<input checked="" type="checkbox"/> or N
Effluent			<input checked="" type="checkbox"/> or N
<b>Blower Readings from VFD (using scroll function):</b>			
Output Amps (A)	3	13.5	
Motor Load (%)	9	26.8	
Output Voltage (V)	4	290	
DC Bus Voltage (V)	7	195	
Frequency Set Point (Hz)	1	58.0	
Output Frequency (Hz)	2	58.0	
Motor Speed (rpm)		3500	
<b>Air Stripper:</b>			
Pressure reading From Magnehelic (IWC)		18.5	
Clean Inlet Screen			Y or N
<b>Flow Readings:</b>			
EW-5 Flowrate (GPM)		17.6	
EW-5 Totalizer (Gallons)		3876070	
EW-6 Flowrate (GPM)		4.86	
EW-6 Totalizer (Gallons)		5378977	
EW-7 Flowrate (GPM)		16.36	
EW-7 Totalizer (Gallons)		15348779	
<b>General Maintenance:</b>			
Sweep Floor			Y or N
Check VFD Filters			Y or N
Check Garbage			Y or N
Check first Aid/eyewash			Y or N
Knock Back tall Grass and Weeds			Y or N

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	7 of 10	NYSDEC	Brewster Village Well Field Brewster, NY

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Site Inspection Observations: October 15, 2024**

Page: 6

942 770 08:51  
 942 770 08:55

Fan Number	Readings (inches of water)	Notes
1	16	
2	9	
3	12	
4	7	
5	10	

**COMMENTS: Note Treatment Equipment & Building/Site Conditions / Needs List**

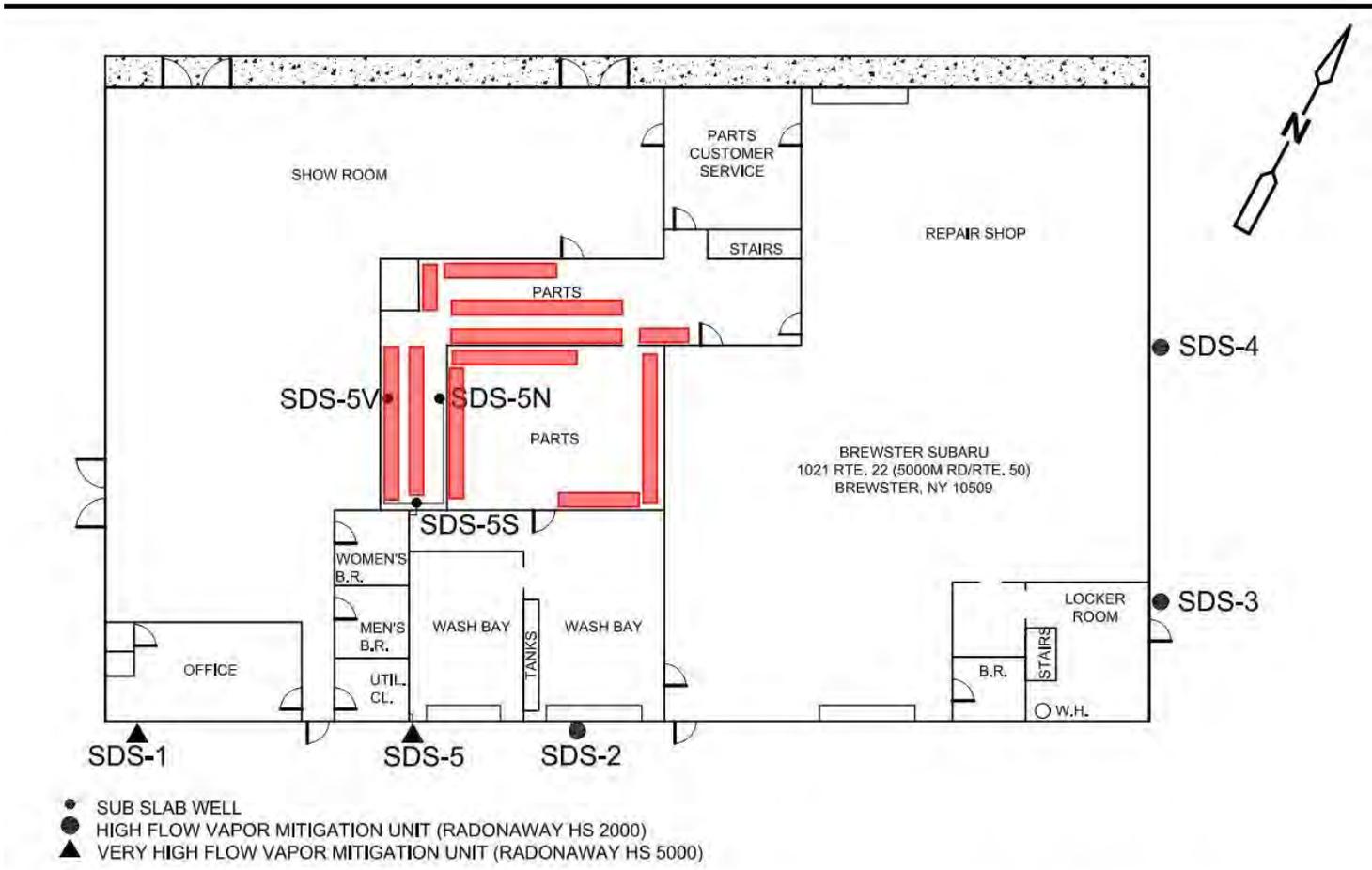
Date \_\_\_\_\_

Water on the floor around air stripper.  
 rain? yes. top of air stripper was wet

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	8 of 10	NYSDEC	Brewster Village Well Field Brewster, NY



**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Site Inspection Observations: October 15, 2024**



Sketch of Shelving Units  
 Diagram not to scale  
 Approximate location of Shelving

CDM Smith Job No. 247379- Task30&M.2024	Photographs Taken By: Sydnee Nissen	Page No. 10 of 10	Client: NYSDEC	Site Name & Address: Brewster Village Well Field Brewster, NY
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Department of Environmental Conservation



DATE: Monday, November 18, 2024

REPORT NO. 2024-11-18

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SITE NO. 340012

LOGBOOK NO.

### DAILY FIELD ACTIVITY REPORT

**PROJECT** Brewster Village Well Field

**LOCATION** 1021 NY-22, Brewster, NY 10509

**ATTACHMENTS** Photo Log, Field Map

**SITE CONDITIONS:**

WEATHER	TIME	TEMP.	PRECIP.	WIND (MPH)	WIND (DIR)
Sunny	0830	55°	None	4	NNW

**WORK GOAL FOR DAY:** Perform Monthly O&M Inspection for Ground Water Treatment System

#### PERSONNEL ON SITE:

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Sydnee Nissen	CDM Smith, Inc.	0830	1030

#### EQUIPMENT ON SITE:

TYPE	MODEL	TYPE	MODEL

#### HEALTH & SAFETY:

**PPE REQUIRED:**  LEVEL D  LEVEL C  LEVEL B  LEVEL A **HASP? YES**

**SITE SAFETY OFFICER:** Sydnee Nissen

**H & S NOTES:** Be mindful of traffic.



Department of Environmental Conservation



DATE: Monday, November 18, 2024

REPORT NO. 2024-10-15

PAGE NO. 2 OF 9

SITE NO. 340012

### DAILY FIELD ACTIVITY REPORT

#### DESCRIPTION OF WORK PERFORMED AND OBSERVED

Sydnee Nissen of CDM Smith arrived at the Groundwater Treatment System (GWTS) at 0830 and proceeded to perform the Monthly O&M Inspection for the GWTS. As previously noted by Hoffman, the ProControl unit is having connectivity issues. The GWTS was not running at the time of arrival. After speaking with Amy Picunas on the phone, Nissen restarted the GWTS. The system started up without any issues, but it is unknown how long the system was not running, as A. Picunas had not been notified of any power outages. The floor around the air stripper was still damp, but it does not appear that any more water had leaked inside.

Aqueous samples collected during the inspection are summarized in the table below.

Sample Name	Sample Time	Analyses	Sample Type
Combined Influent	0949	VOCs via Method 624	Groundwater
EW-5	0951	VOCs via Method 624	Groundwater
EW-6	0955	VOCs via Method 624	Groundwater
EW-7	1000	VOCs via Method 624	Groundwater
Effluent	1005	VOCs via Method 624	Groundwater
Trip Blank	N/A – prefilled by Laboratory	VOCs via Method 624	N/A – prefilled by Laboratory

Upon completion of the GWTS inspection, the GWTS was secured with the lock. Nissen then proceeded to perform the Sub Slab Depressurization System (SSDS) inspection. The SSDS was operating without issue as shown on page 12 of this report. Photographs of the vacuum pressure readings for each SSDS fan are provided in the Photo Log of this report.

Once the SSDS inspection was completed Nissen documented that the activities at the former Brady-Stannard dealership site are still in progress.

Nissen offsite at 1030.

PREPARED BY (OBSERVER):

REVIEWED BY:

PRINT NAME: Sydnee Nissen

PRINT NAME: Amy E. Picunas

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Photograph Log Date: November 18, 2024**



**Photo 1:** GWTS exterior.



**Photo 2:** Former Brady-Stannard site, excavation activities in progress.



**Photo 3:** SDS-1 operating at 17 inches of water column vacuum.



**Photo 4:** SDS-2 operating at 8 inches of water column vacuum.

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	3 of 9	NYSDEC	Brewster Village Well Field Brewster, NY

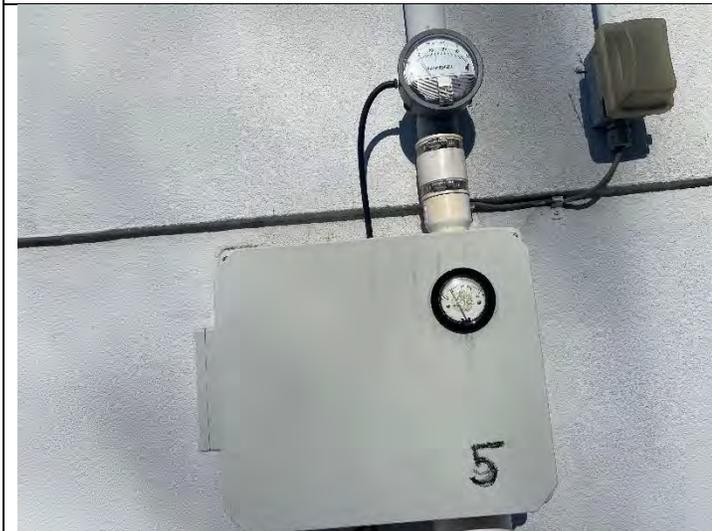
**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Photograph Log Date: November 18, 2024**



**Photo 6:** SDS-3 operating at 13 inches of water column vacuum.



**Photo 7:** SDS-4 operating at 7 inches of water column vacuum.

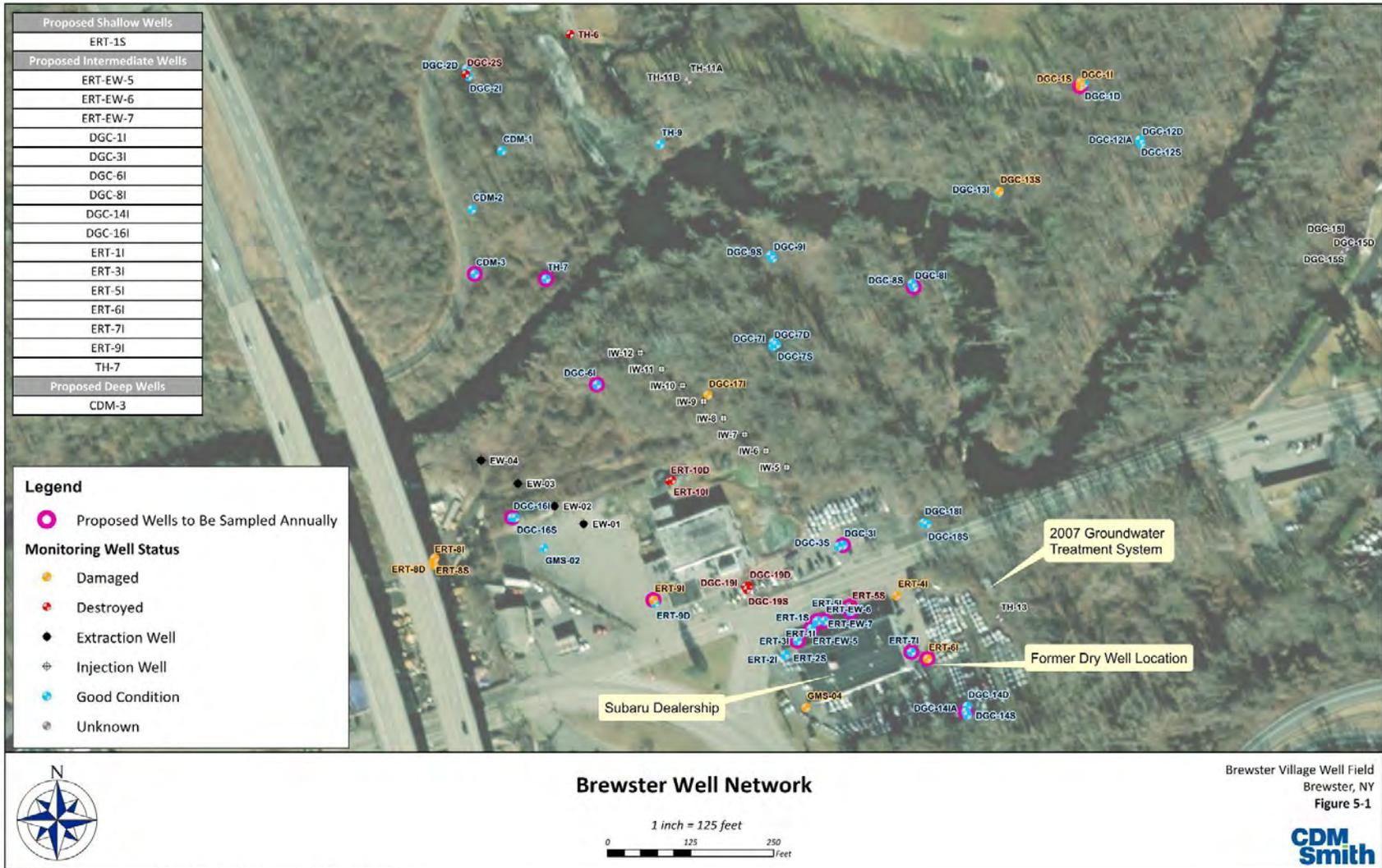


**Photo 8:** SDS-5 operating at 9 inches of water column vacuum.

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	4 of 9	NYSDEC	Brewster Village Well Field Brewster, NY

# NYSDEC Site No. 340012 Brewster Village Well Field

## Site Inspection Observations: November 18, 2024



CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydnee Nissen	5 of 9	NYSDEC	Brewster Village Well Field Brewster, NY

# NYSDEC Site No. 340012 Brewster Village Well Field

## Site Inspection Observations: November 18, 2024

Page: 5

Brewster O&M Checklist	Date:	Personnel:
<b>Samples Collected:</b>		
EW-5 Influent		Y or N
EW-6 Influent		Y or N
EW-7 Influent		Y or N
Combined Influent		Y or N
Effluent		Y or N
<b>Blower Readings from VFD (using scroll function):</b>		
Output Amps (A)	3	13.4
Motor Load (%)	9	26.4
Output Voltage (V)	4	290
DC Bus Voltage (V)	7	195
Frequency Set Point (Hz)	1	58.0
Output Frequency (Hz)	2	58.0
Motor Speed (rpm)		3500
<b>Air Stripper:</b>		
Pressure reading From Magnehelic (IWC)		18
Clean Inlet Screen		Y or N
<b>Flow Readings:</b>		
EW-5 Flowrate (GPM)		18.15
EW-5 Totalizer (Gallons)		3,936,991
EW-6 Flowrate (GPM)		4.96
EW-6 Totalizer (Gallons)		5,579,942
EW-7 Flowrate (GPM)		15.91
EW-7 Totalizer (Gallons)		1,406,903
<b>General Maintenance:</b>		
Sweep Floor		Y or N
Check VFD Filters		Y or N
Check Garbage		Y or N
Check first Aid/eyewash		Y or N
Knock Back tall Grass and Weeds		Y or N

CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379- Task3O&M.2024	Sydney Nissen	6 of 9	NYSDEC	Brewster Village Well Field Brewster, NY

**NYSDEC Site No. 340012 Brewster Village Well Field  
Site Inspection Observations: November 18, 2024**

Page: 6

Fan Number	Readings (inches of water)	Notes
1		17
2		8
3		13
4		7
5		9

**COMMENTS: Note Treatment Equipment & Building/Site Conditions / Needs List**

Date \_\_\_\_\_

CDM Smith Job No. 247379- Task30&M.2024	Photographs Taken By: Sydney Nissen	Page No. 7 of 9	Client: NYSDEC	Site Name & Address: Brewster Village Well Field Brewster, NY
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**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Site Inspection Observations: November 18, 2024**



**Chain of Custody / Analytical Request Form**

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 • +1 585 288 5380 • [alsglobal.com](http://alsglobal.com)

**76650**

**Report To:**

Company: CDM Smith

Contact: Amy Picunas

Email: Picunasae@cdmsmith.com

Phone: (518) 782-4526

Address: 3 Lean Jet Ln  
Suite 100 N  
Latham, NY 12110

SR#: \_\_\_\_\_

Page | of |

**ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER**

Project Name: Brewster Village Well Field

Project Number: 247379

ALS Quote #: 97979

Sampler's Signature: [Signature]

Email CC: naffmanmt@cdmsmith.com

Email CC: nissen@cdmsmith.com

State Samples Collected (Circle or Write): NY MA, PA, CT, Other:

**Sample Collection Information:**

Lab ID (ALS)	Sample ID:	Date	Time	Matrix	Number of Containers	MS/MSD?	GC/MS VOA - 8260 • 624 • 524 • TCLP	GC/MS SVOA - 8270 • 625 • TCLP	Pesticides - 8081 • 608 • TCLP	PCBs - 8082 • 608	Herbicides - 8151 • TCLP	Metals, Total - Select Below	Metals, Dissolved - Field / In-Lab Filter
	<u>COMBINED INFLUENT</u>	<u>11/18/24</u>	<u>09:49</u>	<u>GW</u>	<u>3</u>	<u>N</u>	<u>X</u>						
	<u>EW-5</u>	<u>11/18/24</u>	<u>09:51</u>	<u>GW</u>	<u>3</u>	<u>N</u>	<u>X</u>						
	<u>EW-6</u>	<u>11/18/24</u>	<u>09:55</u>	<u>GW</u>	<u>3</u>	<u>N</u>	<u>X</u>						
	<u>EW-7</u>	<u>11/18/24</u>	<u>10:00</u>	<u>GW</u>	<u>3</u>	<u>N</u>	<u>X</u>						
	<u>EFFLUENT</u>	<u>11/18/24</u>	<u>10:05</u>	<u>GW</u>	<u>3</u>	<u>N</u>	<u>X</u>						
	<u>TRIP BLANK</u>	<u>---</u>	<u>---</u>	<u>-</u>	<u>3</u>	<u>N</u>	<u>X</u>						

Preservative: 0

Notes:

0. None

1. HCl

2. HNO3

3. H2SO4

4. NaOH

5. Zn Acet.

6. MeOH

7. NaHSO4

8. Other

**Special Instructions / Comments:**

Cat. B and NYSDEC EQUUS EDD requested

**Turnaround Requirements**

Rush (Surcharges Apply)

\*Subject to Availability\*

\*Please Check with your PM\*

Standard (10 Business Days)

Date Required: \_\_\_\_\_

**Report Requirements**

Tier II/Cat A - Results/QC

Tier IV/Cat B - Data Validation Report w/. Data

EDD:  Yes  No

EDD Type: NYSDEC EQUUS

**Metals:** RCRA 8•PP 13•TAL 23•TCLP•Other (List)

VOA/SVOA Report List:  TCL •  BTEX •  TCLP •  CP-SL/Stars •  THM • Other: \_\_\_\_\_

Invoice To:  Same as Report To

PO #:

Company:

Contact:

Email:

Phone:

Address:

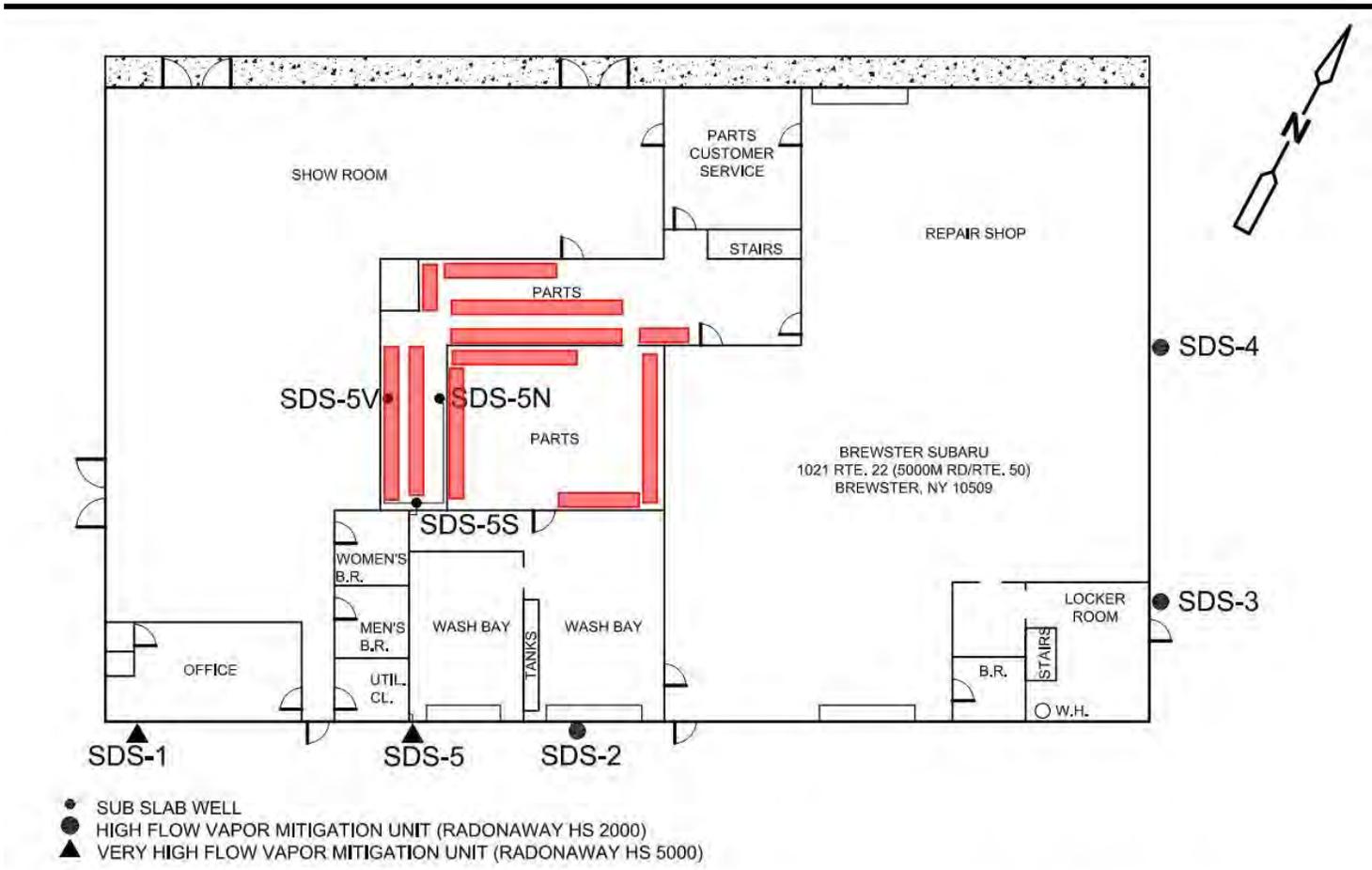
Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
<u>[Signature]</u>					
Printed Name: <u>Sydney Nissen</u>					
Company: <u>CDM Smith</u>					
Date/Time: <u>11/18/24 20:53</u>					

Signature:	
Printed Name:	
Company:	
Date/Time:	

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CDM Smith Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
247379-Task3O&M.2024	Sydney Nissen	8 of 9	NYSDEC	Brewster Village Well Field Brewster, NY

**NYSDEC Site No. 340012 Brewster Village Well Field**  
**Site Inspection Observations: November 18, 2024**



Sketch of Shelving Units  
 Diagram not to scale  
■ Approximate location of Shelving

CDM Smith Job No. 247379- Task30&M.2024	Photographs Taken By: Sydnee Nissen	Page No. 9 of 9	Client: NYSDEC	Site Name & Address: Brewster Village Well Field Brewster, NY
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# Appendix C 2020 DOW Effluent Limitations and Monitoring Requirements Memorandum

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Water, Bureau of Water Permits

625 Broadway, Albany, New York 12233

[www.dec.ny.gov](http://www.dec.ny.gov)

## MEMORANDUM SPDES Permit Equivalent

**TO:** Robert Strang, DER  
**FROM:** Monica Moss, Bureau of Water Permits, DOW  
**SUBJECT:** SPDES Permit Equivalent: Brewster Wellfield, DER Site ID# 3-40-012  
**DRAINAGE BASIN:** 13 / 02  
**DATE:** June 15, 2020

In response to your request dated May 15, 2020, attached please find the effluent limitations and monitoring requirements for the above noted remediation discharge.

The discharge consists of treated water from an onsite groundwater extraction and treatment system. The treatment system consists of a shallow tray air stripping unit with four trays and a sump tank.

The DOW does not have any regulatory authority over a discharge from a State, PRP, or Federal Superfund Site. DER will be responsible for ensuring compliance with the attached effluent limitations and monitoring requirements, and approval of all engineering submissions. Footnote 1 identifies the appropriate DER contact person who will receive all effluent results, engineering submissions, and modification requests. The Regional Water Engineer should be kept apprised of the status of this discharge and, in accordance with the attached criteria, receive a copy of the effluent results for informational purposes.

If you have any questions, please call Monica Moss at 518-402-8104.

Attachment (Effluent Limitations and Monitoring Requirements)

cc: Region 3 Regional Water Engineer (via email, w/attach)  
BWP Section Chief, DOW (via email, w/attach)



Department of  
Environmental  
Conservation

## EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

OUTFALL	DISCHARGE TYPE	RECEIVING WATER and CLASS	EFFECTIVE	EXPIRING
001	Treated Remediation Wastewater	East Branch of Croton River, Class A(T)	7/1/2020	6/30/2025

The discharges from the treatment facility shall be limited and monitored by the operator as specified below:

Outfall and Parameters	CAS No.	Daily Max limits	Units	Minimum Monitoring Requirements		FN
				Measurement Frequency	Sample Type	
<b>Outfall 001</b>						
Flow	NA	72000	GPD	Continuous	Recorder	
pH	NA	6.5 - 8.5	SU	1	Grab	
Tetrachloroethene	127-18-4	0.7	µg/l	1	Grab	
Trichloroethene	79-01-6	5	µg/l	1	Grab	
trans-1,2-Dichloroethene	156-60-5	5	µg/l	1	Grab	
cis-1,2-Dichloroethene	156-59-2	5	µg/l	1	Grab	
1,1,1-Trichloroethane	71-55-6	5	µg/l	1	Grab	
1,1,2,2-Tetrachloroethane	79-34-5	0.2	µg/l	1	Grab	
1,1-Dichloroethane	75-34-3	5	µg/l	1	Grab	
Vinyl chloride	75-01-4	2	µg/l	1	Grab	
Chloroform	67-66-3	7	µg/l	1	Grab	
Chlorobenzene	108-90-7	5	µg/l	1	Grab	
1,2-Dichlorobenzene	95-50-1	3	µg/l	1	Grab	
Iron	NA	1000	µg/l	1	Grab	
Trichlorofluoromethane	75-69-4	5	µg/l	1	Grab	
Methylene chloride	75-09-2	5	µg/l	1	Grab	

### Footnotes:

- The measurement frequency of parameters listed on this page shall be Monthly following a period of 12 (twelve) consecutive weekly sampling events showing no exceedances of the stated discharge limitations. If discharge limitation of any parameter listed on this page exceeds the stated limit, the measurement frequency for all parameters listed on this page shall again be weekly, until a period of four consecutive sampling events showing no exceedances at which point monthly monitoring may resume.

### Additional Conditions:

- Discharge is not authorized until such time as an engineering submission showing the method of treatment is approved by the Department. The discharge rate may not exceed the effective or design treatment system capacity. All monitoring data, engineering submissions and modification requests must be submitted to:



Site Name: Brewster Wellfield  
DER Site ID#: 3-40-012  
Page 2 of 2

Robert Strang, Remedial Bureau E, Section D  
Division of Environmental Remediation  
NYSDEC, 625 Broadway, Albany, New York 12233- 7015  
Phone: 518-402- 8642

With a copy sent to:

Regional Water Engineer, Region 3  
100 Hillside Avenue, Suite 1W, White Plains, New York, 10603-2860  
Phone: (914) 428-2505

2. Samples and measurements, to comply with the monitoring requirements specified above, must be taken from the effluent side of the final treatment unit prior to discharge to the receiving water body unless otherwise noted above.
3. Only site generated wastewater is authorized for treatment and discharge.
4. Authorization to discharge is valid only for the period noted above but may be renewed if appropriate. A request for renewal must be received 6 months prior to the expiration date to allow for a review of monitoring data and reassessment of monitoring requirements.
5. Both concentration (mg/l or µg/l) and mass loadings (lbs/day) must be reported to the Department for all parameters except flow and pH.
6. Any use of corrosion/scale inhibitors, biocidal-type compounds, or other water treatment chemicals used in the treatment process must be approved by the department prior to use.
7. This discharge and administration of this discharge must comply with the substantive requirements of 6NYCRR Part 750.



## Appendix D 2025 Field Log Book Scans

Location BREWSTER, NY Date 3/20/24

Project / Client BREWSTER VILLAGE WELLFIELD  
NYSDEC

WEATHER: OVERCAST, 46°F

PERSONNEL: CDM Smith - E. Redmond

PPE: Mod Level D

PURPOSE: IDW Sampling at dealership

1045 - All personnel arrive onsite

1100 - Remove lids from drums

1130 - Take Ag samples

1200 - Take Soil Samples

1215 - Complete sampling, secure lids  
to drums

1230 - All personnel offsite.

~~Chris M Redmond  
3/20/24~~

Location Brewster, NY Date 11/11/24

Project / Client Pre-Injection Pilot Study / NYSDEC  
M:HTT Investigation

Weather: 61°F - sunny Wind: 9 mph WSW

PPE: Mod. Level D

Personnel: M. Renko - CDM Smith

Tom Koester - S2C2

Joe Cesaro - S2C2

Joleen Price - Parratt-Wolff (PW)

Lee Fenord - Parratt-Wolff

Purpose: Mobilize equipment and personnel  
and begin with M:HTT investigation  
w/in the building.10:15 - M. Renko arrives onsite S2C2  
already onsite. Parratt Wolff  
scheduled to arrive onsite  
at 11:00.10:30 - M. Renko shows locations to  
S2C2. S2C2 preps equipment.  
M:HTT equipment is mounted  
on a John Deere Gator.11:30 - Joleen Price (Parratt-Wolff)  
arrives onsite. H&S brief  
with all crew with emphasis  
on hearing protection.

11:45 - PW begins unloading equipment.

~~Matthew K~~ 11/11/24 *Rite in the Rain*

Location Brewster, NY Date 11/11/24Project / Client Pre-Injection Pilot Study / NYSDDEC  
MiHPT - Investigation11:48 - List of Equipment onsiteParrott-Wolff

- Rack Truck
- Trailer with Geoprobe 6712 DT
- Support Truck
- Geoprobe 420M
- Steel open-top Drums (5)
- Concrete Core machine

S2C2

- 2 Support Trucks
- Enclosed Trailer of John Deere Gator-6-wheeler.
- Geoprobe Direct Imaging and MIP controller

11:55 - waiting for drillers helper to arrive with wheeled geoprobe.

12:00 - Call with Dwight McGuirk (property owner) to give a heads up on drilling locations w/in the building. He was hesitant about locations in show room and lobby. Called A. Picunas (PM) and let he know what was going on. Ensured D. McGuirk that everything will be restored.

Matt R 11/11/24.

Location Brewster, NY Date 11/11/24Project / Client Pre-Injection Pilot Study / NYSDDEC  
MiHPT Investigation

1230: PW preparing to core concrete in parts room, while waiting for helper to arrive. S2C2 on standby until locations are cored.

1330: Drillers helper arrives onsite; He's brief.

1400: Core 2nd location within building. S2C2 preparing MiHPT equipment for parts room.

1515: All MiHPT equipment and drill rig set-up in parts room. The parts room will be MiHPT-12.

1530: PW troubleshooting issues with rental Geoprobe 420M.

1600: PW on the phone with rental company as to why the 420M powersource is not working. PW moves 6712 DT into show room.

1615: 6712 DT stalled entering showroom doors; PW making calls and troubleshooting why rig will not start up. Both rigs out of commission.

Matt R 11/11/24

Location Brewster, NY Date 11/12/24Project / Client Pre-Injection Pilot Study / NYSDECM:HTT Investigation

1620 : 6712DT is operational again,  
leaving Rig outside overnight.

1630 : Not enough time in day to  
complete a M:HTT boring. Will  
start on outside borings in  
the morning, while PW  
helper will exchange 420M  
power sources.

1640 : All crew cleans up work areas  
in preparation for tomorrow.

1700 : All personnel offsite

*Matthew*  
11/12/24

Location Brewster, NY Date 11/12/24Project / Client Pre-Injection Pilot Study / NYSDECM:HTT Investigation

Weather: AM: 45°F - sunny Wind: 13 mph NW  
PM: 51°F - Sunny wind: 16 mph NW

PPE: Mod. Level D

Personnel: M. Benko - COM Smith  
J. Price - Parratt-Wolff (PW)  
Lee Penard - PW  
Tom Koester - SZC2  
Joe Cesaro - SZC2

Purpose: Begin M:HTT investigation at  
M:HTT-16, located in the shoulder  
of Salom Rd., between ERT-EW-6  
and ERT-EW-7. Lee Penard is  
picking up replacement equipment  
at rental company, while we  
complete outside borings.

0700 : All personnel onsite, H&S meeting  
with emphasis on traffic safety  
while working near road.

0715 : M. Benko Calibrates 4-gas  
meters and DustTrak II's;  
all passed

0730 : SZC2 and PW are set-up on  
M:HTT-16 and are running  
pre-calibration for all sensors.

*Matthew* 11/12/24

Location Brewster, NY Date 11/12/24Project / Client Pre-Injection Pilot Study / NYSDEC  
M: HPT Investigation

- 07:48: Begin advancing tooling at M: HPT-16. Stopping every 1 ft for ~ 1 min to allow readings to properly record.
- 08:51: M: HPT-16 reached terminal depth of 38.70 ft bgs; Clay surface at ~ 37 ft bgs. No indication of contamination on XSD Max Cog. PW + S2C2 begin pulling up tooling and decoupling rods.
- 09:00: Move to M: HPT-15.
- 09:15: Begin advancing tooling at M: HPT-15 (on shoulder between ERT-EW-5 and ERT-EW-6).
- 10:15: Top of clay surface encountered at ~ 37 ft bgs. Boring terminated at 39.40 ft bgs. No indication of XSD Max spike at bottom of borehole.
- 10:20: Begin breakdown of M: HPT-15.
- 10:30: Boreholes backfilled with bentonite chips
- 10:40: Lee Fenard arrives onsite w/ replacement equipment.
- Matthew R. 11/12/24

Location Brewster, NY Date 11/12/24Project / Client Pre-Injection Pilot Study / NYSDEC  
M: HPT Investigation

- 11:00 - S2C2 and Parratt - WJFF setting up in parts room (M: HPT-12).
- 11:30 - Refusal @ 3ft at M: HPT-12; Coring an additional hole approx. 2 ft SE of original point.
- 12:15 - Continue drilling at M: HPT-12
- 12:48 - A depth of 24.8 ft bgs was reached at the parts room. S2C2 needs to pull tooling out to assess issue with MIP controller.
- 13:00 - S2C2 found the broken wire in the probe - They are replacing the wire.
- 13:20 - Continuing to advance from 24.8 ft bgs.
- 13:30 - Clay surface encountered at ~ 30.5 ft bgs, continuing to 35 ft per SOL. End of boring at 34.7 ft bgs. Begin pulling rods from M: HPT-12.
- 13:50 - Move to M: HPT-13 (Lobby)
- 14:15 - Begin advancing at M: HPT-13.
- 14:30 - Drive head for M: HPT set-up broke; cannot proceed until a new part comes in.
- Matthew R. 11/12/24 Rite in the Rain

Location Brewster, NY Date 11/12/24  
 Project / Client Pre-Injection Pilot Study / NYSDEC  
M:HTP Investigation

1435 - Call w/ project team to discuss plan moving forward and calibration of M:HTP equipment.

Resolution: We will begin soil and GW Sampling at M:HTP-16 and M:HTP-15, until the part arrives.

1450 - All personnel cleans up work areas

1500 - All personnel offsite

*Mette*  
 11/12/24

Location Brewster, NY Date 11/13/24  
 Project / Client Pre-Injection Pilot Study / NYSDEC  
Soil Sampling / GW Screening / M:HTP Investigation

Weather: AM - 30°F wind - 6mph N  
 PM - 51°F wind - 5mph NNE

Personnel: M. Renko - com Smith  
 J. Price - Parrott-Wolff (PW)  
 PRE = Mal. D L. Penrod - PW  
 T. Koester - S2C2

Purpose: Begin soil sampling at M:HTP-16 and M:HTP-15 locations, until drive head replacement for MHP tooling arrives onsite.

0700: M. Renko onsite; Begin calibrating equipment and prepping bottles and logs. All equipment passed calibration

0710: PW warming up equipment, prior to beginning on CDM-SB-14 (M:HTP-15)

\* Back Note: T. Koester from S2C2 will be arriving later this morning to receive the replacement drive cap for the M:HTP tooling on the 420M.

~~Begin advancing 4' macrocase and tooling at CDM-SB-14 (MR) 11/13/24~~

~~Collect 340012 - CDM-SB- - - 11/13/24~~

*Mette* 11/13/24 *Plot in the Rain*

Location Brewster, NY Date 11/13/24Project / Client Pre-Injection Pilot Study / NYSDECSoil Sampling / GW Screening / MiHPT InvestigationSAMPLE LOCATION NAME PAIRING

<u>MIP</u>	<u>Soil</u>	<u>GW</u>
MiHPT-12	CDM-SB-10	CDM-GWS-10
MiHPT-13	CDM-SB-11	CDM-GWS-11
MiHPT-14	CDM-SB-12	CDM-GWS-12
MiHPT-15	CDM-SB-13	CDM-GWS-13
MiHPT-16	CDM-SB-14	CDM-GWS-14

0730 - J. Price informs me that C. Perrod is not coming into work today due to his back hurting. We will not be doing DPT outside because J. Price cannot do it alone.

0745 : FedEx delivers drive cap for MiHPT tooling. Waiting on S2C2 to arrive to begin/continue with MiHPT-13.

0750 : J. Price goes to Valero across the street to get fuel for back truck and equipment.

0800 : J. Price returns and begins preventative maintenance on equipment and cleaning up around the site.

Matthias RL 11/13/24

Location Brewster, NY Date 11/13/24Project / Client Pre-Injection Pilot Study / NYSDECMiHPT Investigation

08:30 - S2C2 arrives onsite and begins warming MiHPT equipment up.

0900 - Begin advancing MiHPT tooling at MiHPT-13

1000 - Top of clay encountered at ~32ft bgs.

1015 - Total depth of 34.75 ft bgs.

1020 - PW and S2C2 remove tooling from borehole and decon rods as they are removed.

1040 - Move to MiHPT-14 (showroom)

1100 - Begin advancing tooling at MiHPT-14.

1148 - Clay surface encountered at ~29.3 ft bgs.

1200 - Total depth of 35 ft bgs at MiHPT-14.

1230 - PW and S2C2 begin cleaning up all MiHPT equipment and prepare for S2C2 to demob offsite.

1345 - S2C2 offsite; All crew breaks for lunch.

Matthias RL 11/13/24 *Rite in the Rain*

Location Brewster, NY Date 11/13/24Project / Client Pre-Injection Pilot Study / NYSDEC  
MIHPT Investigation1400 - Return from lunch and construct  
decon pad.1430 - All personnel offsite; call w/  
Jeff Kiggins about having  
additional personnel tomorrow  
and someone will be onsite  
to assist Jolaan Price (PW.)

Matthew

11/13/24

Location Brewster, NY Date 11/14/24 29Project / Client Pre-Injection Pilot Study  
Soil + GWSWeather: AM - 30°F - sunny wind - 4 mph NE  
PM - 49°F - sunny wind - 13 mph EPPE: Mod. Level DPersonnel: M. Renko } CDM Smith  
S. Nissen }  
J. Price } Parratt-Wolff (PW)  
L. Penrod }Purpose? Begin DPT soil investigation  
outside of the building at  
CDM-SB-13 and 14 (MIHPT-15 and 16)  
3 Sample intervals will be collected  
at each soil boring from the  
following intervals:

- 1) highest P10/XSD Max value
- 2) Soil/GW Interface
- 3) Top of basal/confining unit.

0700 - All personnel onsite; begin calibrating  
all equipment - All passed.0720 - Setup sampling equipment / CAMP  
stations.

0730 - PW warms up machinery.

0750 - Move to CDM-SB-14.

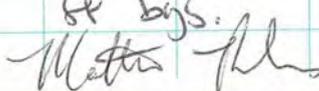
0830 - Begin advancing at CDM-SB-14

Matthew 11/14/24 *Rite in the Rain*

Location Brewster, NY Date 11/14/24Project / Client Pre-Injection Pilot Study / NYSDECDPT Investigation

0915 - Collect ~~340012~~<sup>UL</sup> 340012-CDM-SB-14-6-7-111424  
 1000 - Collect 340012-CDM-SB-14-~~20-21~~-111424  
 1100 - Collect 340012-CDM-SB-14-36-37-111424

## \* BACK NOTE:

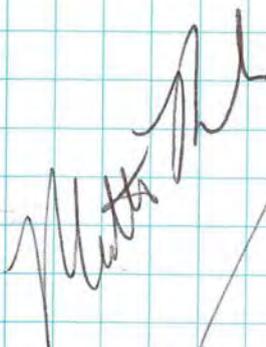
- 0930 - Drillers need to take a break  
 0945 - Resume drilling from 24 feet.  
 1115 - Drilling complete at CDM-SB-14  
 1120 - Drillers take a break.  
 1130 - All crew breaks for lunch  
 1215 - All crew returns from lunch;  
 Move equipment to CDM-SB-13  
 (M:HPT-15).  
 1220 - Begin drilling at CDM-SB-13.  
 1230 - Collect 340012-CDM-SB-13-3-4-111424  
 1300 - Collect 340012-CDM-SB-13-22-23-111424  
 1500 - Collect 340012-CDM-SB-13-~~32-33~~<sup>32-33</sup>-111424  
 1330 - Jeff Higgins (PW PM) arrives onsite  
 to replace J. Price.  
 1400 - J. Higgins cores additional holes inside  
 building to prepare for soil and  
 groundwater sampling.  
 1500 - Sample collected from 32-33 due  
 to no recovery from 33.9-40  
 SK bags.  
 Matta 

Location Brewster, NY Date 11/14/24Project / Client Pre-Injection Pilot Study / NYSDECDPT Investigation

1505 - PW begins breaking down  
 equipment and cleaning up  
 site.

1510 - S. Nissen offsite.

1630 - All personnel offsite.



11/14/24

Location Brewster, NY

Date 11/15/24

Project / Client Pre-Injection Pilot Study / NYSDEC

GW Screening

Weather: AM: 32°F - cloudy wind: 4 mph NW  
 PM: 53°F - Sunny wind: 9 mph NNW

PPE: Mod. Level D

Personnel: Matt Renko → COM Smith  
 Sydnee Nissen  
 Lee Penrod → PW  
 Jeff Higgins

Purpose: Collect gw screening samples  
 from multiple intervals at  
 COM-SB-14 and COM-SB-13.

~~0700~~ - All personnel onsite; setting up  
 CAMP Stations and warming up  
 equipment.

0800 - PW moves rig to front of  
 the building to prep for GW  
 screening.

0845 - Collect 340012-COM-GW-13-6-10-111424

0900 - S. Nissen offsite to purchase  
 alconox and spray bottles.

0910 - PW continues to advance  
 casing to 32 ft bgs

1000 - Collect 340012-COM-GW-13-32-36-111524

1120 - Move to COM-SB-14.

Matt Renko 11/15/24

Location Brewster, NY

Date 11/15/24

Project / Client Pre-Injection Pilot Study / NYSDEC

GW Screening

1145 - collect EB-02-111524 from  
 silicone tubing.

12:15 - Collect 340012-COM-GW-12-16-111524

12:30 - Drill to collect GW sample  
 from 32-36 ft bgs.

1330 - Collect 340012-COM-GW-32-36-111524

1345 - All personnel clean up equipment  
 and site

1415 - All personnel offsite; M. Renko  
 relinquishes this logbook to  
 S. Nissen on 11/15/24.

Handwritten signatures and initials: Matt Renko, S. Nissen, and a large scribble. The date 11/15/24 is written in the bottom right of the page.

Location Brewster, NY Date 11/18/24  
 Project / Client Pre-Injection Pilot Study / NYSDEC  
DPT Investigation

Weather: PM: 63°F - Sunny Wind 8mph NW

PPE: mod Level D

Personnel: Sydney Nissen CDM Smith  
 Lee Penrod > Parratt-Wolff  
 Lamont Clemons

Purpose: Begin DPT soil investigation  
 at CDM-SB-12/MIHPT-14

12:30 - All personnel on site, PW  
 drop off trailer and drilling

1240 - PW off site to get lunch

1310 - PW return to site, preparing  
 for boring CDM-SB-12

1400 - Begin drilling at CDM-SB-12

1438 - Collect EB-03-11824

11445 - Collect 340012-CDM-SB-12-6-7-111824

1515 - Done drilling for the day,  
 drilled to 15 ft. cleaning up

1535 - All crew off site

1700 - S. Nissen relinquishes this  
 logbook to M. Renko.

Sydney Nissen 11/18/24

Location Brewster, NY Date 11/19/24  
 Project / Client Pre-Injection Pilot Study / NYSDEC  
DPT Investigation

Weather: AM: 33°F Wind: 8mph NW  
 PM: 54°F Wind: 6mph NW

PPE: Mod. Level D.

Personnel: M. Renko - CDM Smith  
 Lee Penrod - Parratt-Wolff (PW)  
 Lamont Clemons - PW

Purpose: Continue drilling at CDM-SB-12,  
 collecting soil and GW samples.

0700 - All personnel onsite; HES  
 meeting.

0715 - Calibrate equipment - all passed.

0745 - PW organizing tooling.

0800 - Continue drilling from 15' bgs  
 at CDM-SB-12.

0900 - Collect 340012-CDM-SB-12-18-20-111924

0915 - Collect 340012-CDM-SB-900-111924

\* Duplicate Collected from 18-20 ft at  
 CDM-SB-12

11045 - Collect 340012-CDM-SB-26-28-111924

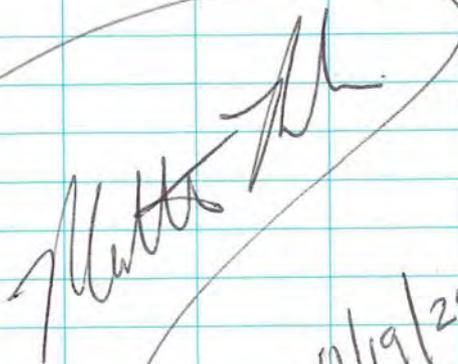
1200 - Boring CDM-SB-12 terminated  
 at 33 ft bgs.

1215 - PW cleans up soil tooling and  
 begins prepping gw screening  
 tooling.

Matthew 11/19/24 *Retire in the Rain*

Location Brewster, NY Date 11/19/24  
 Project / Client Pre-Injection Pilot Study / NYSDEC  
DPT Investigation

- 1230 - All crew breaks for lunch.  
 1300 - Advance tooling to collect GWS sample from 18-21 ft  
 1400 - Collect ~~cont~~ 340012 - CDM-GW-18-21-111924  
 1415 - Collect 340012 - CDM-GW-900-111924  
 1545 - Collect 340012 - CDM-GW-12-27-30-111924  
 1620 - All personnel cleans up site and moves over to CDM-SB-11.  
 16700 - All personnel offsite

  
 11/19/24

Location Brewster, NY Date 11/20/24  
 Project / Client Pre-Injection Pilot Study / NYSDEC  
DPT Investigation

- Weather: AM - 42°F sunny wind: 3mph N  
 PM - 60°F sunny wind: 3mph SSE  
 PPE: Mod level D  
 Personnel: M. Renko - CDM Smith  
 L. Penrod - Parratt-Wolff (PW)  
 L. Clemons - PW  
 Purpose: Continue DPT soil + GWS investigation at CDM-SB-11 and CDM-SB-10.  
 0700: All personnel onsite; calibrate equipment and move remaining tooling / supplies over to CDM-SB-11.  
 0800: All tooling moved to CDM-SB-11.  
 0830: Begin drilling at CDM-SB-11.  
 0915: Refusal encountered at ~4.5 ft bgs. Core a new hole to continue advancing.  
 0950: Begin advancing second hole.  
 1015: Refusal at ~4.5 ft again.  
 1030: Core 3<sup>rd</sup> attempt.  
 1050: Refusal at 4.5 ft again.  
 1100: Call with M. Lamer, we will not collect soil or GW from remaining boreholes. 

Location Brewster, NY

Date 4/20/24

Project / Client Pre-Injection Pilot Study / NYSDEC  
Well Installation

- 1150 - All crew breaks for lunch; will clean up all equipment prior to well installation.
- 1230 - All crew returns from lunch.
- 1300 - All equipment picked up and moved to trailer for PM to return 420M.
- 1380 - Truck Mounted Rig set-up on TH-13 new location - well will be screened from 26-36 ft bgs.
- 1400 - Began drilling TH-13.
- 1430 - Refusal encountered at ~4 ft; moving rig ~3 ft to the SW.
- 1540 - Terminal depth of 37 ft bgs encountered. Well will be installed from 36-26 ft bgs. See well construction diagram on pg. 39.
- 1645 - TH-13 installed up to bentonite seal
- 1700 - All personnel offsite

*Matthew [Signature]*

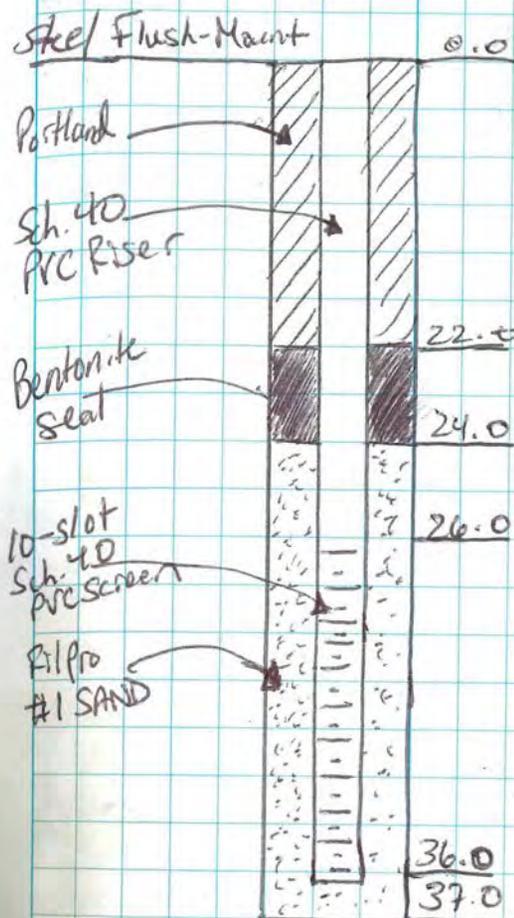
4/20/24

Location Brewster, NY

Date 4/20/24

Project / Client Pre-Injection Pilot Study / NYSDEC  
Well Installation

## TH-13 Well Construction (not to scale)



Materials Used:

Filpro #1 SAND : 111

Bentonite : 1/2

Portland :

*Matthew [Signature]*

Location Brewster, NY

Date 11/21/24

Project / Client Pre-Injection Pilot Study / NYSDEC

MW InstallationWeather: <sup>at</sup> 43°F - Rain wind - 7 mph NE

in 49°F - Rain wind - 9 mph NE

PPE: Mod Level D.

Personnel: M. Renko - COM Smith

L. Penard - Parratt-Wilff (PW)

L. Clemens - PW

Purpose: Continue MW Installation of new wells.

0730 - All personnel onsite; LHS brief regarding slips-trips-falls in wet conditions.

0830 - PW begins demobilizing from TIA-13

0950 - PW brings Hollow-Stem Augers (HSA) to decon pad to decon prior to drilling next location

1100 - Mobilize to the front of the on-site building to begin well installation of the new IPS wells.

1110 - Drillers taking a break from lifting augers. L. Penard's back is not doing well. PW taking extended break.

1300 - Begin setting up at IPS-01.

42

Mettl M 11/21/24

Location Brewster, NY

Date 11/21/24

Project / Client Pre-Injection Pilot Study / NYSDEC

MW Installation

1345 - Begin drilling at IPS-01.

1445 - Hard drilling; advancing from 5 to 12 feet.

1530 - Augers advanced to 15 ft bgs.

1545 - All crew cleans up and secures site.

1600 - All personnel offsite

Mettl M 11/21/24

Location Brewster, NY Date 11/22/24  
 Project / Client Pre-Injection Pilot Study / NYSDDEC  
MW Installation

Weather: AM: 33°F - Snow wind: 12 mph SW  
 PM: 38°F - sleet/rain Wind: 4 mph SSE

PPE: Mod. Level D

Personnel: M. Lenko - com Smith

L. Lenard - Parrot - WTRF (PW)

Purpose: Continue MW-Installation for the new IPS wells.

0700: All personnel onsite; H&S brief on working with poor visibility.

0800: Continue drilling from 15 feet at IPS-01

1000: Terminal depth of 30.5 ft bgs reached at IPS-MW-01. Begin installing PVC well from 20-30 ft bgs.

1045 - Sand pack installed from ~~12~~ 20-30.5 ft bgs.

1130 - Bentonite seal installed from 16-18 ft bgs. Allowing bentonite to hydrate.

1230 - Grout set via tremie pipe from 16 feet to ground surface.

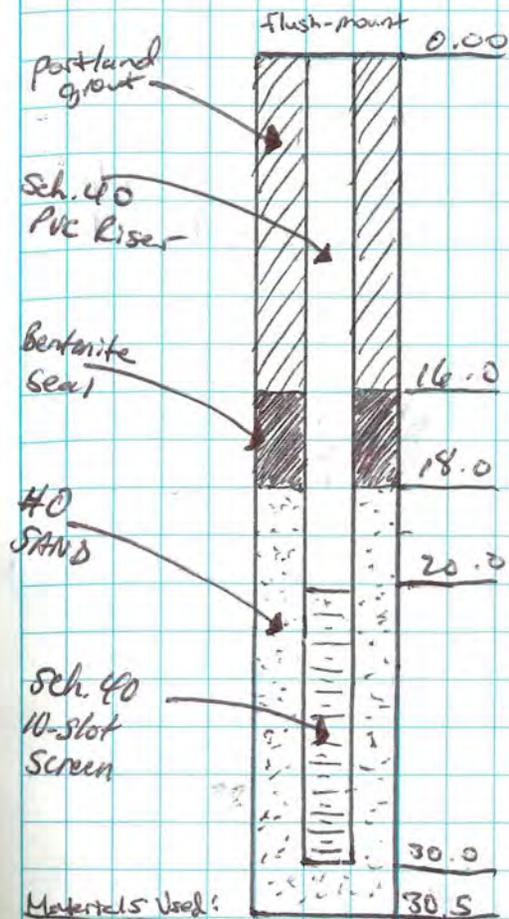
1300 - All crew clean-up and secure site.

1350 - All personnel offsite

Matt Lenko 11/22/24

Location Brewster, NY Date 11/22/24  
 Project / Client Pre-Injection Pilot Study / NYSDDEC  
MW-Installation

IPS-MW-01 Diagram (not to scale)



Materials Used:

#0 Sand -

# Bentonite -

Portland -

Matt Lenko 11/22/24

Weather: AM: ~~Smph~~ 43°F Sunny Smph NW  
 PM: 50°F Sunny 9 mph NW

IFE: Mod. Level D.

Personnel: M. Renko - COM Smith.

L. Penrod - Parrott-Waiff (PW)

L. Clemens - PW

J. Higgins - PW

~~PW~~ @ 11/25/24

Purpose - continue drilling / MW Installation / development for new IPS wells.

1000 - M. Renko onsite; calibrate YSI - passed.

1020 - M. Renko begins well development on TH-13. (See well devel. log).

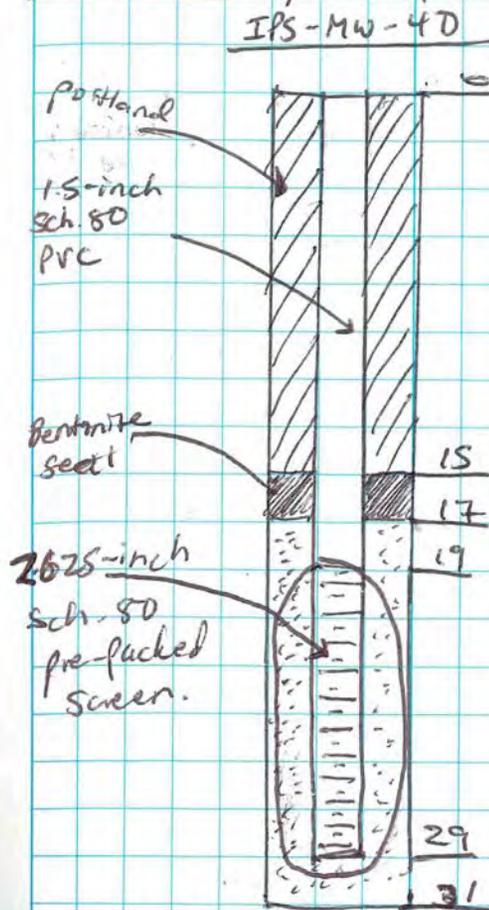
1130 - PW - all crew arrives onsite w/ 6712DT for indoor wells.

1230 - 6712DT able to enter north side of building with indoor clearance.

1300 - TH13 developed to 21.7 NTU's, approx 100 gal. purged.

1330 - begin drilling at IPS-MW-4D. Well will be installed from 20-30 ft bps.  
 Diagram on pg. 45.

Matt L 11/25/24



Matt L 11/25/24

Location Brewster, NY Date 11/25/24Project / Client Pre-Injection Pilot Study / NYSDEC  
MW Installation / Development

- 1340 - Prep for well development at  
IPS-MW-01.
- 1345 - Begin well development at IPS-MW-01  
(See development log for details)
- 1430 - 2nd crew from PW finishing  
concrete pads for TH13 and  
IPS-MW-01.
- 1500 - Development complete at IPS-MW-01
- 1530 - IPS-MW-40 set from 19-27 ft  
bgs due to uplift while installing  
prefab and Sch. 80 riser  
(See Construction log on pg. 48).
- 1600 - All crew begins cleaning up and  
securing site
- 1630 - All personnel offsite

*Mattie [Signature]*  
11/25/24

Location Brewster, NY Date 11/26/24 47Project / Client Pre-Injection Pilot Study / NYSDEC  
MW Installation / Development

- Weather: AM - 32°F - rain wind: 5mph S  
PM - 43°F - rain wind: 10mph W
- PPE: Mod. Level 0
- Personnel: M. Renko - COM Smith  
J. Higgins - Parrott - Wolff (PW)  
L. Clemons - PW  
L. Renard - PW
- Purpose: Continue installing MW inside  
building and out in front  
of building.
- 0700 - All personnel onsite; A/C meeting
- 0730 - PW prepares equipment to  
begin drilling IPS-MW-01I.
- 0800 - J. Higgins moves drums to staging  
area.
- 0930 - IPS-MW-2I installed from 10-20  
ft bgs. (See Construction log on  
pg. 49).
- 0950 - PW prepares Dietrich D50 to drill  
IPS-MW-2D
- 1000 - Begin drilling IPS-MW-2D
- \* Continued on to page 50

*Mattie [Signature]* 11/26/24  
*Kate in the Rain*

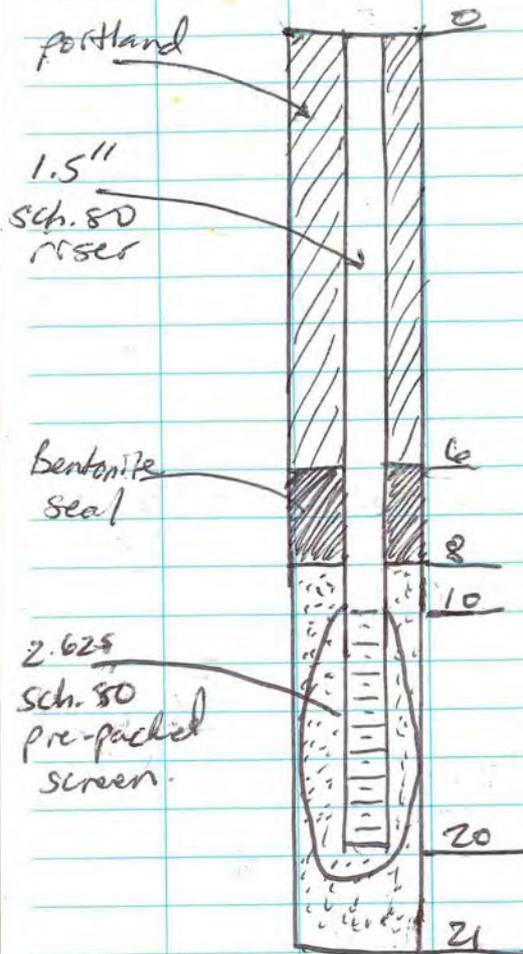
Location Brewster, NY

Date 11/26/24

Project / Client Pre-IPS Investigation / NYSDEC

MW Installation

## Well Diagram - IPS-MW-04D



Mattie R. 11/26/24

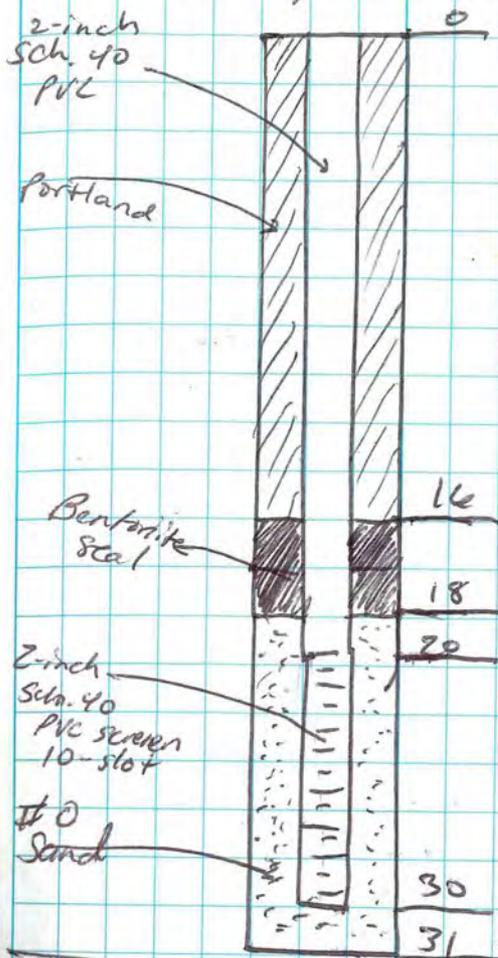
Location Brewster, NY

Date 11/26/24

Project / Client Pre-IPS Investigation / NYSDEC

MW Installation

## Well Diagram - IPS-MW-02D



Mattie R. 11/26/24

Location Brewster, NY Date 11/26/24Project / Client Pre-IPS Investigation / NYSDECMW Installation

- 1010 - J. Higgins (PW) decon's downhole tooling from 6712DT. L. Penord and L. Clemons continue advancing 1757 at IPS-MW-2D.
- 1300 - IPS-MW-2D installed to depth. PW begins filter pack installation.
- 1430 - IPS-MW-2D grouted to ground surface. PW begins packing up equipment to move to next location (IPS-MW-2I).
- 1645 - IPS-MW-2I drilled to ~~21~~ 4' lgs. Will set well and drill -03 on 11/26/24; if refusal does not occur.
- 1700 - All personnel offsite

Matthew [Signature]

11/26/24

Location Brewster, NY Date 11/27/24Project / Client Pre-IPS Investigation / NYSDECMW Installation

- Weather: AM: 34°F - sun wind: 5mph WSW  
PM: 48°F - sun wind: 14mph WSW
- PRR: Mod. Level D.
- Personnel: M. Pentka (COM Smith)  
L. Penord (Parrott - Wolfe) (PW)  
L. Clemons (PW)
- Purpose: Complete well installation for the IPS Investigation.
- 0700 - All personnel onsite; it's meeting.
- 0730 - All crew begins cleaning up indoors and demobilizing the 6712DT.
- 0750 - L. Penord moves Dietrich D50 to offset from refusal at IPS-MW-2I. The new 2I location will be ~ 3 ft north of MW-2D.
- Back Note: 0715 - unable to develop IPS-MW-2D due to a shortage of drums onsite. PW will need to bring additional drums onsite next week.
- 1000 - IPS-MW-2I drilled to 20 ft lgs.
- 1100 - All crew clean up site
- 1200 - All personnel offsite.

Matthew [Signature]

Location Brewster, NY Date 12/2/2024Project / Client Pre IPS investigation / NYSDECMW Installation

Weather: PM 36°F Wind 6 MPH NW

PPE: Mod level D

Personnel: S. Nissen - CDM Smith

L. Pennel

L. Clemons

Barratt - Wolff

Purpose: Continue MW installation  
at IPS-02I

1215: All crew on site, H+S meeting

1230: PW preparing to install  
IPS-MW-2I

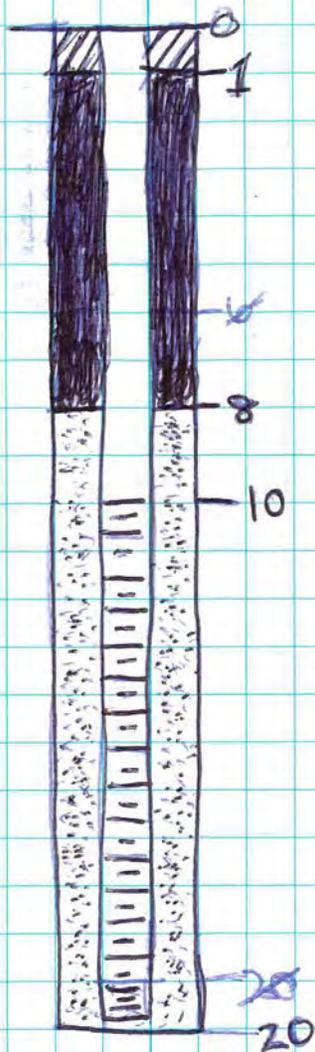
1330: IPS-mw-2I installed to depth.

PW begins filter pack installation

1530: Filter pack + bentonite  
installed. Flush meant to  
be installed tomorrow  
PW Breaking down  
equipment + decan augers.

1630: All crew off site

*Sydney Nissen*  
12/2/2024

Location Brewster, NY Date 12/2/2024Project / Client Pre-IPS Investigation / NYSDECMW InstallationWell Diagram - IPS-MW-02I

Location Brewster, NY Date 12/3/2024Project / Client Pre-IPS Investigation / NY SDECMW Installation

Weather AM: 23°F Wind 3mph WNW  
 PM: 39°F 7mph WNW

PPE mod. level D

Personnel Sidnee Nissen CDM Smith

Lee Pennel  
Lament Clemens → Parratt-WolffPurpose Complete well drilling +  
installation, development

0700: All crew on site. H+S meeting,  
 PW warming up drill rig,  
 preparing equipment

0800: Begin drilling at IPS-03

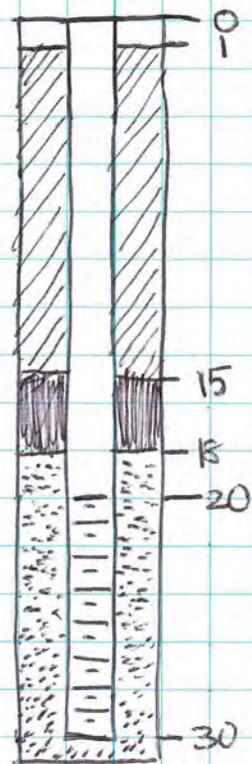
0830: Nissen preparing to start  
well development

0900: Begin development of IPS-MW-04D

1030: IPS-03 drilled to 31'

1045: PW crew off site to get  
diesel and lunch1245: PW return, begin installation  
of IPS-MW-031330: Well installed, begin filterpack  
installation

cont. p 56 →

Location Brewster, NY Date 12/3/2024<sup>55</sup>Project / Client Pre-IPS Investigation / NY SDECMW InstallationWell Diagram: IPS-MW-03

Location Brewster, NY

Date 12/3/2024

Project / Client Pre-IPS Investigation / NYSDEC

MW Installation + Development

- 1500 Development of IPS-MW-04D complete
- 1545 Begin development of IPS-MW-04I
- 1630 IPS-MW-03 grouted to ground surface. PW decomring and packing up drill rig
- 1645 Nissen cleaning up; to continue well development tomorrow 12/4
- 1700 All crew off site

Sydney Nissen

12/3/24

Location Brewster, NY

Date 12/4/2024<sup>57</sup>

Project / Client Pre-IPS Investigation / NYSDEC

Well Development

Weather AM 21°F Wind 2 mph SW  
PM 30°F 9 mph S

PPE Mod. level D

Personnel Sydney Nissen CDM Smith  
Lee Penrod Perratt  
Lamont Clemons Wolff

Purpose MW development

0700 All crew on site.  
H&S meeting

0730 Nissen resumes well development at IPS-MW-04I

0750 Delivery of empty drums for IDW from Miller Environmental Group. PW staging equipment + prep for well development

0900 Begin development of IPS-MW-02D, PW working on concrete/asphalt patching

1115 Development of IPS-MW-02D complete

Location Brewster, NY Date 12/4/2024  
 Project / Client Pre-IPS Investigation / NYSDEC  
Well Development

- 1130 Begin development of  
IPS-MW-02I
- 1330 Development of IPS-MW-02I  
complete, set up for  
IPS-MW-03
- 1555 IPS-MW-03 complete  
PW packing up equipment
- 1630 PW crew off site,  
Nissan finishing IPS-MW-04I
- 1700 IPS-MW-04I complete, Nissan  
cleaning up, breaking down  
equipment
- 1730 Nissan off site

*Sydney Ni*  
12/4/2024

Location Brewster, NY Date 12/5/2024  
 Project / Client Pre-IPS Investigation / NYSDEC  
Demobilization

Weather 21°F Wind 2mph SW  
PPE Moel Level D  
Personnel Sydney Nissen CDM Smith  
 Lee Penrod Parrott  
 Lambert Clemens Wolff

Purpose Stage IDW drums, clean  
up, demobilize

- 0700 PW on site, moving IDW  
drums. Nissan delayed  
due to snow
- 0900 PW off site
- 1000 Nissan on site, cleaning  
up remaining equipment and  
garbage
- 1100 Nissan off site.

*Sydney Ni*  
12/5/2024

Location 1021 NY 22, Brewster NY Date 1-15-25

Project / Client January 2025 O<sub>2</sub>M Inspection  
and Utility SurveyWeather AM - 21°F, 8 mph NW, clear, PM -  
30°F, 12 mph NW, SunnyPurpose - O<sub>2</sub>M inspection and GPR/utility  
clearance for upcoming drilling.

PPE - Mobilized Level D

Personnel - Michael Hoffman - LDM Smith,  
Kelly Weyer - Clean Globe Environmental

Lisa Hauer - Tri State Environmental Services

0640 - Hoffman onsite. Prepping to mark and

scope out locations for proposed drilling

0725 - D6C-19 cluster marked. Outside  
construction fence, over head utilities present  
moving to D6C-17I for inspection.0737 - Lock for gate to D6C-17I has  
corrosion - had to use hammer to get it  
unstuck. Code is 0012 for lock0749 - At D6C-17I. Riser and inner  
casing at bent  $\approx 15^\circ$ . This well will  
have to be replaced. Moving to D6C-19  
cluster.0800 - Hoffman and Weyer at D6C-19  
had briefing on scope of work  
for utility clearance.0820 - Hauer onsite. Hoffman and Hauer  
discussed proposed locations for ERT-10 cluster

Location same as pg. 60 Date 1-15-25

Project / Client Same as pg. 60

No drilling is allowed within silt fence  
as that is proposed excavation area.  
0830 - Marked 2 proposed locations  
for ERT-10 cluster. First is outside  
silt fence but would need drill rig  
to be within silt fence for drilling.  
Second is outside silt fence with  
enough room for drill rig to be outside  
silt fence. However it is more than  
100 ft from the original proposed location

0845 - Weyer completed utility clearance  
for proposed D6C-19 cluster. 2 underground  
utilities are present 10+ ft from location.

0845 - Hauer is an existing gas main the second  
is unknown. Overhead utilities are present  
15+ ft from proposed location. Cleared 15 ft  
by 15 ft area for utility survey

0903 - Hauer offsite. Hoffman marked  
both locations for the ERT-10 cluster  
for Weyer to clear.

0925 - Both proposed locations for ERT-10  
cluster cleared. No underground utilities  
or anomalies detected. Overhead utilities  
are present but are 15+ ft from location

moving to D6C-17I,

Location Same as pg. 60

Date 1-15-25

Project / Client Same as pg. 60

0930 - At D6C-17I. Proposed location for replacement of D6C-17I is  $\approx 3$  ft from existing well.

0945 - Proposed location cleared. Mountain View utilities, no poles or overhead utilities present. Trees are present which restrict overhead clearance outside of the proposed location. 1 gate and 2 opening in fence line are needed to reach D6C-17I. Smallest is 12.5 ft wide.

1000 - Weyer off site. Hoffman's vehicle had engine failure so arrangements were made to tow it.

1001 - Hoffman moving to perform O&M inspection on foot.

1130 - O&M inspection done. Waiting for tow truck. All locations cleared for a 15 ft by 15 ft area.

12:15 - Tow truck delayed

12:25 - Tow truck on site, assisting with loading.

1306 - Hoffman off site with vehicle being towed. All gates locked / closed.

Michael Hoffman 1-15-25 / *[Signature]*

Location Brewster NY

Date 1/20/2025<sup>63</sup>

Project / Client Well Replacement / NYSDEC mobilization

Weather AM 25°F, wind 10 mph WNW  
PM 25°F, wind 7 mph WNW

PPE Mod. level D

Personnel Sydney Nissen  
CDM Smith  
Lee Penrod  
Lamont Clemons  
Zach Paternoster  
Parratt-Wolff

Purpose Mobilize to site for installation of / replacement of 6 monitoring wells.

1100: Nissen on site, scoping out proposed drilling locations. 2-3 inches of snow is present, so the paint markings from the utility clearance are not visible.

1130: Frank Fiorello, reactor, on site to provide a key to the building. Fiorello off site

Location Brewster, NY Date 1/20/2025  
 Project / Client Well ~~Drilling~~ <sup>Replacement</sup> / NYSDEC  
Mobilization

- 1130 Nissen enters Brewster Subaru building and turns the water back on, and attempt to open large garage bay door but controls don't seem to be working.
- 1215 Got the doors to open
- 1230 Lee Penrod on site. Discuss plans, attempt to open gate to access DGC-17 but unsuccessful. Nissen + Penrod return to Subaru building + unload some supplies from truck.
- 1330 Return to gate to DGC-17, able to get lock open w WD-40. Drive to DGC-17
- 1400 Lamont Clemons and Zach on site. Clemons driving rig to DGC-17 with Penrod + Nissen in support truck
- 1430 All back at Subaru building, moving more equipment indoors →

Location Brewster, NY Date 1/20/2025  
 Project / Client Well ~~Drilling~~ <sup>Replacement</sup> / NYSDEC  
Mobilization

1515 PW personnel off site  
 1530 Nissen off site.

Drilling to begin tomorrow

Shehee  
 1/20/2025

Location Brewster NY Date 1/21/25

Project / Client ~~AW Drilling~~ / NYSDEC  
Well Replacements

Weather AM 3°F Clear Wind 4mph SW  
PM 18°F Cloudy Wind 6mph W

PDE Mod. level DPersonnel Sydnee Nissen CDM Smith  
Lee PenrodLamont Clemens } Parratt-  
Zach Paternoster } wolfPurpose Begin drilling at DGC-17I,  
install DGC-17B0730 Nissen on site. Penrod +  
Clemens attempted to start  
rig, but too cold. ~~set up~~0755 United Rentals delivers  
skid steer - Takeuchi TLBR20805 PW loading truck0900 All crew move to rig  
location. Nissen setting  
up CAMP stations, PW  
start rig to allow it  
to warm up. Clemens +  
Paternoster prepping.1045 PW pull old stick-up and  
concrete pad for old DGC-17I

Location Brewster, NY Date 1/21/25

Well Replacement  
Project / Client ~~Pre 115~~ / NYSDEC

MW drilling + installation

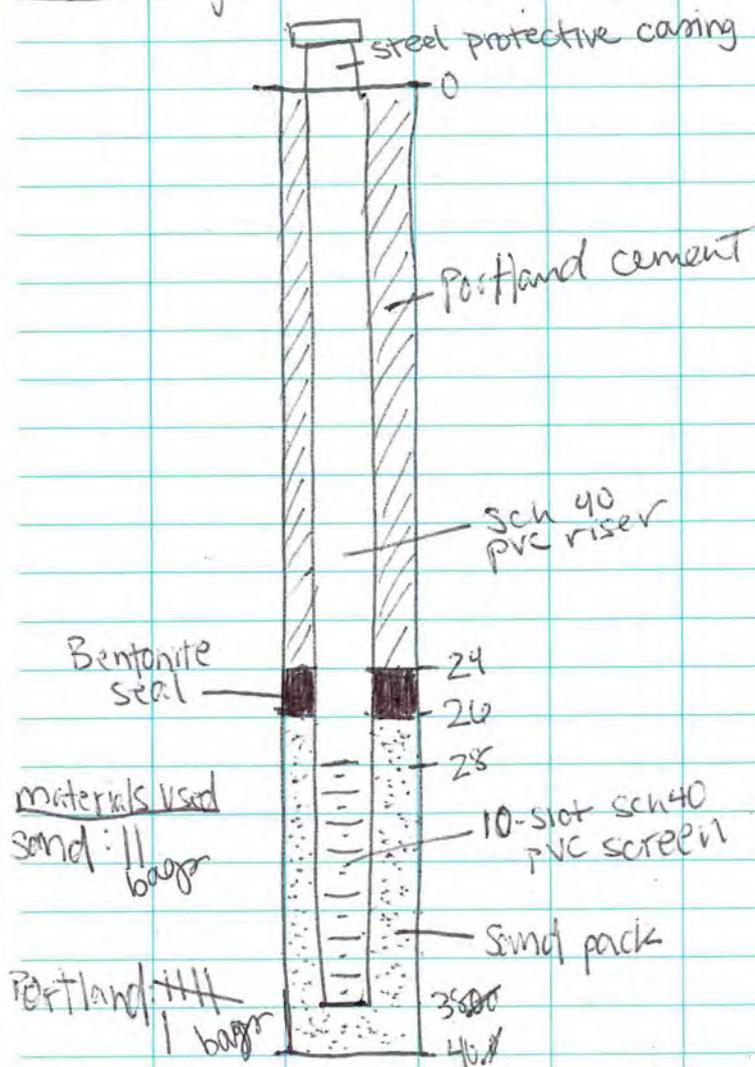
1055 Begin drilling new DGC-17I1150 Drilled to ~40' bgs  
Break for lunch, filling  
water tanks.1400 PW crew setting up to begin  
installation of DGC-17I1425 Begin installation1440 Screen installed 28.0-38.0  
ft, begin installation of  
sand pack1600 Sand pack installed 26.0-  
40.0 ft.1630 Bentonite chips installed  
24.0-26.0 ft. Begin cleanup  
for the day.1645 All personnel return to  
Subaru building, PW ~~decorating~~  
~~outers w steam cleaner~~ SW1700 All crew off site

Sydnee Nissen  
1/21/2025

Location Brewster, NY Date 1/21/25

Project / Client ~~Pre-IPS~~ / ~~AD~~ NYSDEC  
Well Replacement

Well Diagram: DGC-17I



Location Brewster, NY Date 1/22/25 69

Project / Client ~~Pre-IPS~~ / NYSDEC  
Well Replacement

Weather AM 4°F Clear 2mph NNW  
PM 18°F Clear 2mph NNW  
PPE Mod. Level D  
Personnel Sydney Nissen CDM Smith  
Lee Penrod  
Lamont Clemons } Parratt  
Zach Paternoster } -Wolf

Purpose Grout new DGC-17I,  
remove + grout old DGC-17I

0745 Nissen on site. PW  
already on site filling  
water tank + warming  
up equipment

0815 All crew mobile to rig.  
PW prepping grout mix,  
having trouble w water tank

0930 water tank issue resolved,  
continue grout prep

1005 Begin grouting DGC-17I

1050 DGC-17I grouted to 0.0ft,  
begin decommissioning of  
old DGC-17I

Location Brewster, NY Date 1/22/25  
 Project / Client Well Replacement / NYSDEC

- 1100 Due to a miscommunication between Nissen + drillers, the old DGC-171 casing was not removed and was grouted in place. Because of the placement of the new well, it is not possible to position the rig over the old well to over-drill.
- 1140 Protective casing installed on new DGC-171
- 1200 Break for lunch.
- 1245 PW moving waste drums
- 1310 move skid steer to DGC-171 to move waste drums out
- 1340 Done moving drums. PW building deck pad, then decontaminating augers w steam cleaner. ~~Nissen + Penrod scoping out access for ERT-10 well cluster.~~
- 1400 Nissen + Penrod return to old DGC-171. Remaining well components end ~1 ft box. Penrod using skid steer to

Location Brewster, NY Date 1/22/25 71  
 Project / Client Well Replacement / NYSDEC

- clean up + restore ground surface
- 1430 Nissen + Penrod scoping out access for ~~the~~ ERT-10 wells, which are within the Brady-Stannard site's fence.
- 1510 Move to ERT 10 location. Setting up CAMP stations, PW setting up rig
- 1600 Begin drilling ERT-10I
- 1715 ERT-10I drilled to depth. Leaving augers in the ground to install casing tomorrow. Break down CAMP stations.
- 1730 All crew off site

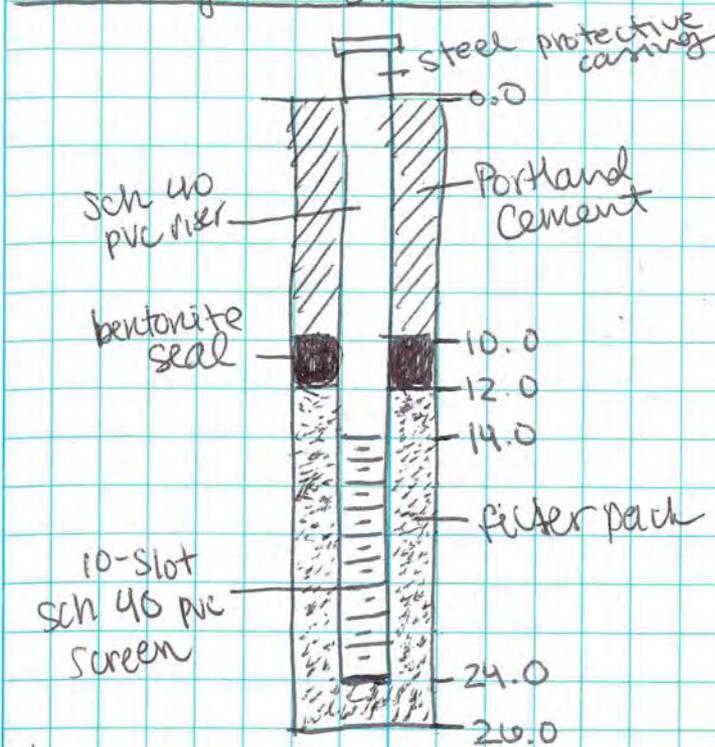
Sydney  
 1/22/2025

Location Brewster, NY Date 1/23/25  
 Project / Client Well Replacement / NYSDEC

Weather	AM	12°F	Clear	Wind	3mph S
	PM	26°F	Clear		9mph SW
PPE	Mod. level D				
Personnel	Sydney Nissen		CDM Smith		
	Lee Penrod		Parratt Wolf		
	Lamont Clemons				
Zach Paternoster					
Purpose	Continue well replacement work.				
0745	Nissen on site. PW already on site preparing equipment. Drill Rig warming up.				
0845	Setting up CAMP stations				
0900	Begin installation of ERT-10I				
0930	Begin installation of sand pack				
1145	Sand pack + bentonite pellets done. Break for lunch + allow bentonite to hydrate.				
1240	PW crew mixing grout				
1300	Begin grouting				
1335	Grout complete and protective casing installed. cont. p 74				

Location Brewster, NY Date 1/23/25 73  
 Project / Client Well Replacement / NYSDEC

### Well Diagram: ERT-10I



Sydney Nissen  
 1/23/25

Location Brewster, NY Date 1/23/25  
 Project / Client Well Replacement / NYSDEC

- 1335 (cont). PW crew breaking down rig, Nissen breaking down CAMP stations
- 1415 PW deconning equipment + prepare for next well
- 1445 Setting up rig to drill DGC-195, Nissen setting up CAMP stations
- 1515 Begin drilling DGC-195
- 1610 DGC-195 drilled to depth.
- 1630 All crew off site.

Sydney Nissen  
 1/23/25

Location Brewster, NY Date 1/24/25  
 Project / Client Well Replacement / NYSDEC

- Weather AM 14°F Clear Wind 4 WSW  
 PM
- PPE Mod. level 8D
- Personnel Sydney Nissen CDM Smith  
 Lee Penrod  
 Lamont Clemons } Permitt  
 Zach Paternoster } Wolff
- Purpose Install DGC-195
- 0745 Nissen on site. PW already on site, warming up rig + preparing materials
- 0845 Begin installation of DGC-195
- 0905 Screen set at 5-15 feet. Begin installing sand pack
- 1015 Sand pack done, begin installing bentonite pellets
- 1040 Bentonite pellets done. Prep riser (cut & excess height) for flush →

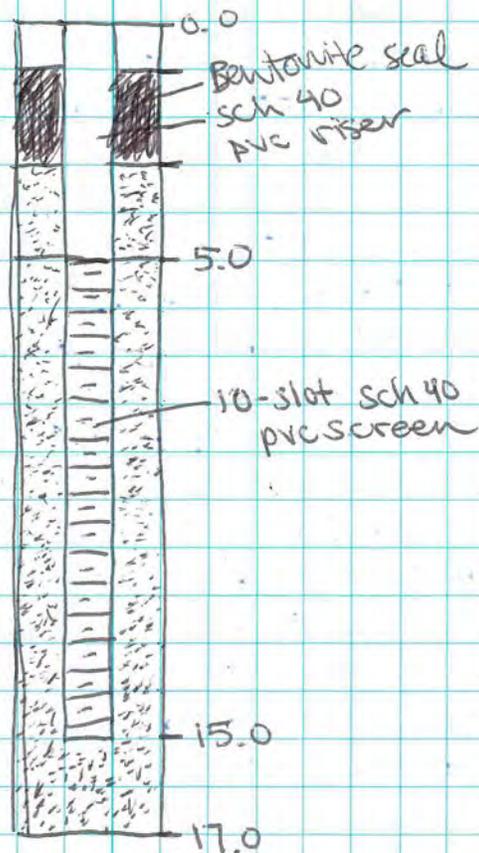
Location Brewster, NY Date 1/24/25Project / Client Well Replacement / NYSDEC

- mount, to be installed on Monday. Packing up drill rig.
- 1105 PW deconning augers w/ steam cleaner.
- 1125 PW setting up drill rig at ERT-10D location to drill on Monday.
- 1200 All crew off site.

*Sydney Ann*  
1/24/25

Location Brewster, NY Date 1/24/25 77Project / Client well Replacement / NYSDEC

### Well Diagram: DGC-19.5



Location BREWSTER, NY Date 01/27/25

Project / Client Well Replacement / NYSDEC

WEATHER: Sunny, 35°F  
Wind 11 mph SW

PPE: Mod level D

PERSONNEL: CDM Smith - Emma Redmond

Parratt WASS - Lee Penrod

Lamont Clemons

Zach Paternoser

PURPOSE: Drill FRT-10D

1215: Redmond on site, PW already on site warming up rig

1240: Set up CAMP stations

1300: Begin drilling FRT-10D

1420: FRT-10D drilled to depth (42' bgs)

1450: Sand installed to 40'

1455: Well screen installed 30'-40'

1530: Sand installed to 28'

~~1510: Bentonite installed to 26' FR 012725~~

1620: Bentonite installed to 26'

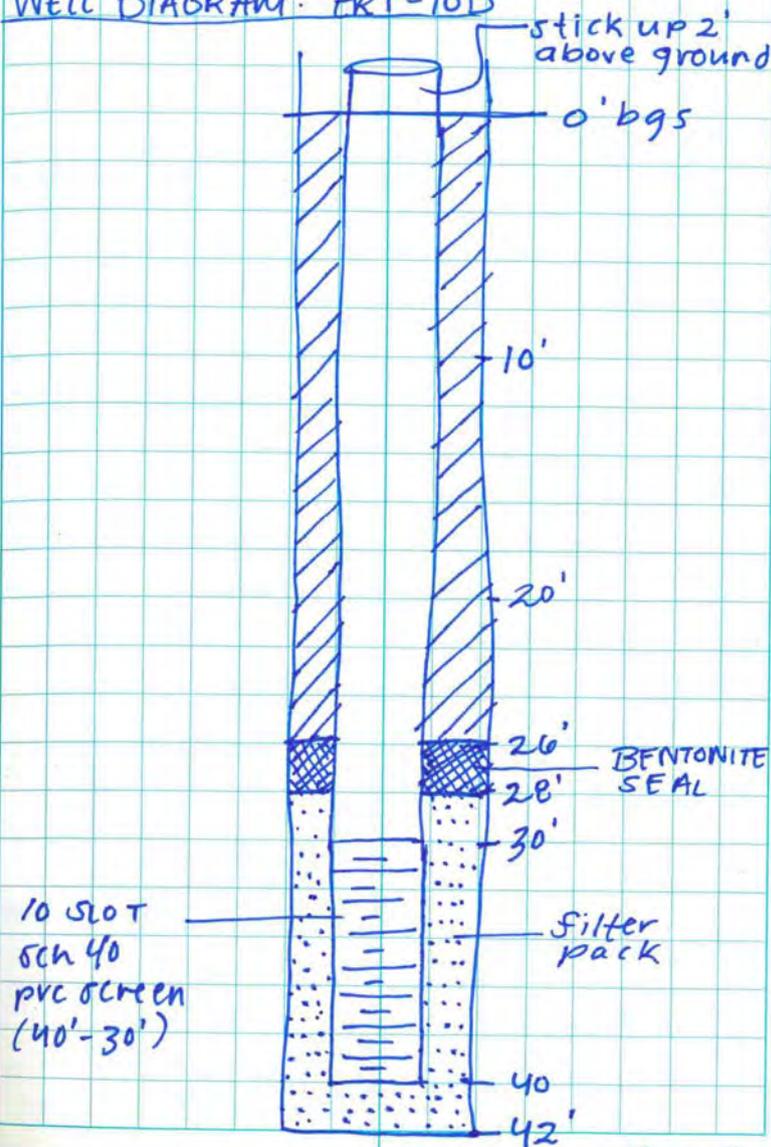
1700: All Crew off site.

Emma M Redmond  
1/27/25

Location BREWSTER, NY Date 01/27/25

Project / Client Well Replacement / NYSDEC

WELL DIAGRAM: FRT-10D



Location BREWSTER, NY Date 01/28/25

Project / Client WELL REPLACEMENT / NYSDDEC

WEATHER: AM, 35°F, partially cloudy, wind  
12 mph WSW

PM, 30°F, Sunny, wind 10 mph NW

PPE: Mod level D

PERSONNEL: CDM Smith: Emma Redmond

Parratt Wolff: Lee Penrod

Lamont Clemons

Zach Paternoser

Purpose: Complete ERT-10D installation  
Drill DGC-19I

0700: PW on site to warm up rig and  
prepare for the day

0740: Redmond on site

0800: Begin installing grout at ERT-10D

0940: Finish ERT-10D installation

1000: PW decon's augers

1040: Mobilize to DGC-19I and begin  
drilling. Set up CAMP stations

1400: Complete drilling at 30' bgs

1420: Sand installed to 28', well screen 18'-  
28'

1620: Sand installed to 16', begin grouting 14'-  
16'

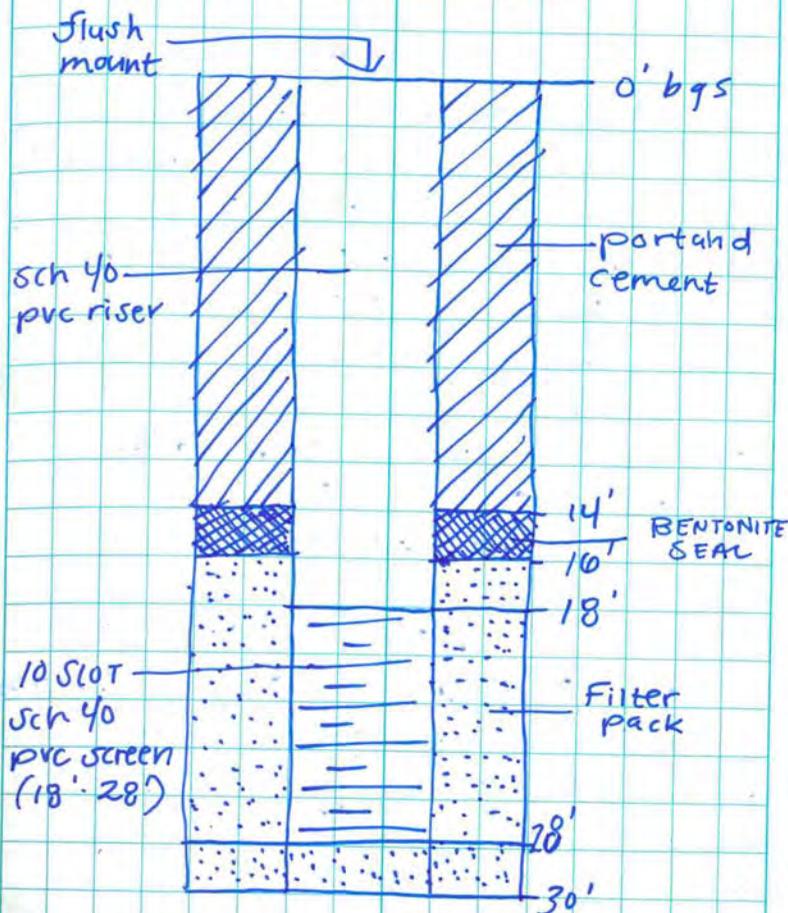
1640: Let grout sit over night, break down camp

1700: All personnel off site

Location BREWSTER, NY Date 01/28/25

Project / Client WELL REPLACEMENT / NYSDDEC

WELL DIAGRAM: DGC-19IA



Location BREWSTER, NY Date 01/29/25

Project / Client WELL REPLACEMENT / NYSDEC

→ PM = 35°F, cloudy, wind 13 mph WNW

WEATHER: AM - 40°F, cloudy, wind 8 mph SW

PPF: Mod level D

PERSONNEL: CDM Smith - Emma Redmond

Parrott Wolff: Lee Parrod

Lamont Clemons

Zach Patternosier

Purpose: Complete DGC-19IA installation

Drill DGC-19DA

0700: PW on site to warm up rig

0730: Redmond on site

0750: Redmond set up CAMP stations

0810: Begin grouting DGC-19I

0900: Complete grouting DGC-19I, decon augers.

1030: Begin Drilling DGC-19DA

1230: Finish Drilling DGC-19DA to depth (36')  
begin installing sand & screen.1530: Finish installing <sup>seal</sup> ~~at~~ <sup>FR 012925</sup> ~~front~~ (20'-22')

1545: Break down CAMP station

1615: All personnel off site.

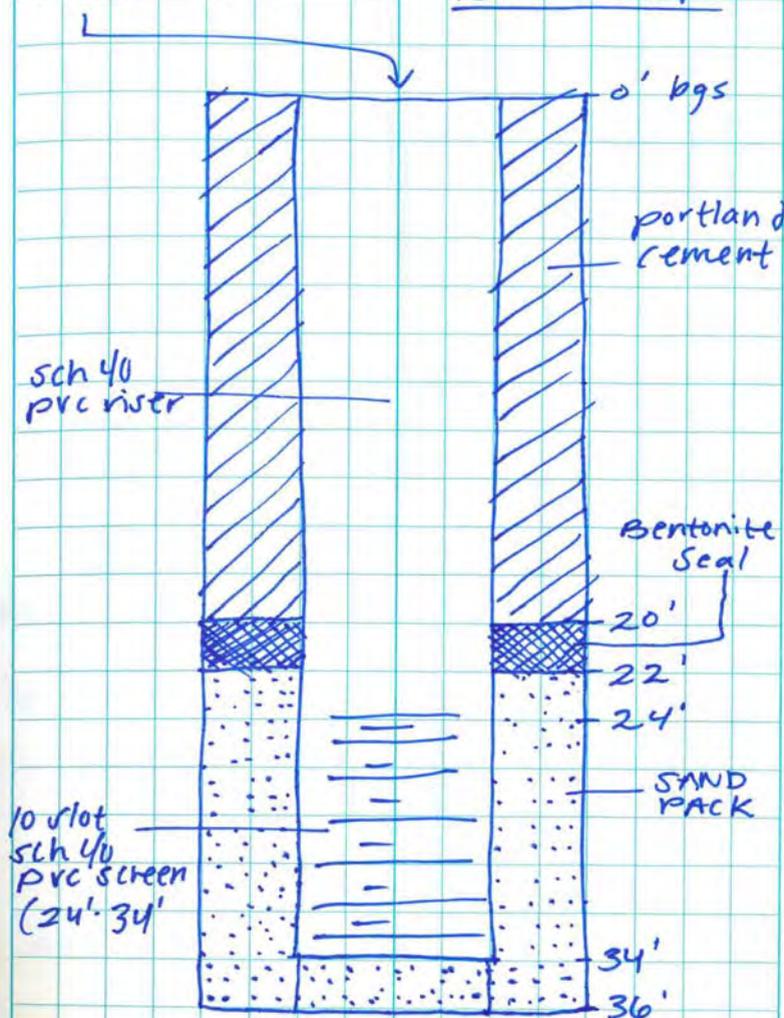
Emma M. Redmond  
01/29/25

Location BREWSTER, NY Date 01/29/25

Project / Client WELL REPLACEMENT / NYSDEC

Flush mount

DGC-19DA



Location BREWSTER, NY Date 01/30/25Project / Client WELL REPLACEMENT / NYSDEC

WEATHER: AM - 20°F, Sunny, Wind 8 mph WNW  
 PM - 20°F, Cloudy, Wind 4 mph S

PPE: Mod level D

PERSONNEL: CDM Smith - Emma Redmond

Parrott Wolff - Lee Penrod

Lamont Clemons

Zach Paterkoser

PURPOSE: Complete DGC-19DA installation,  
 begin developing wells, patch wells

0700: PW on site to warm up rig

0700: Redmond on site

0845: Redmond sets up CAMP stations

0900: PW begins grouting DGC-19DA

1020: Complete DGC-19D installation, decon  
 augers.

1100: Redmond & Clemons drive to DGC-17IA  
 to develop

10.0V = 57.213 gal

1140: Calibrate equipment.

1155: Begin purging DGC-17IA

1240: Complete development at DGC-17IA

1350: Start pumping <sup>ERT-10DA</sup> ~~DGC~~ ERT-10DA

1415: Start pumping ERT-10IA & restart ERT-10DA  
 with restricted flow to avoid running well dry

1440: Complete ERT-10IA

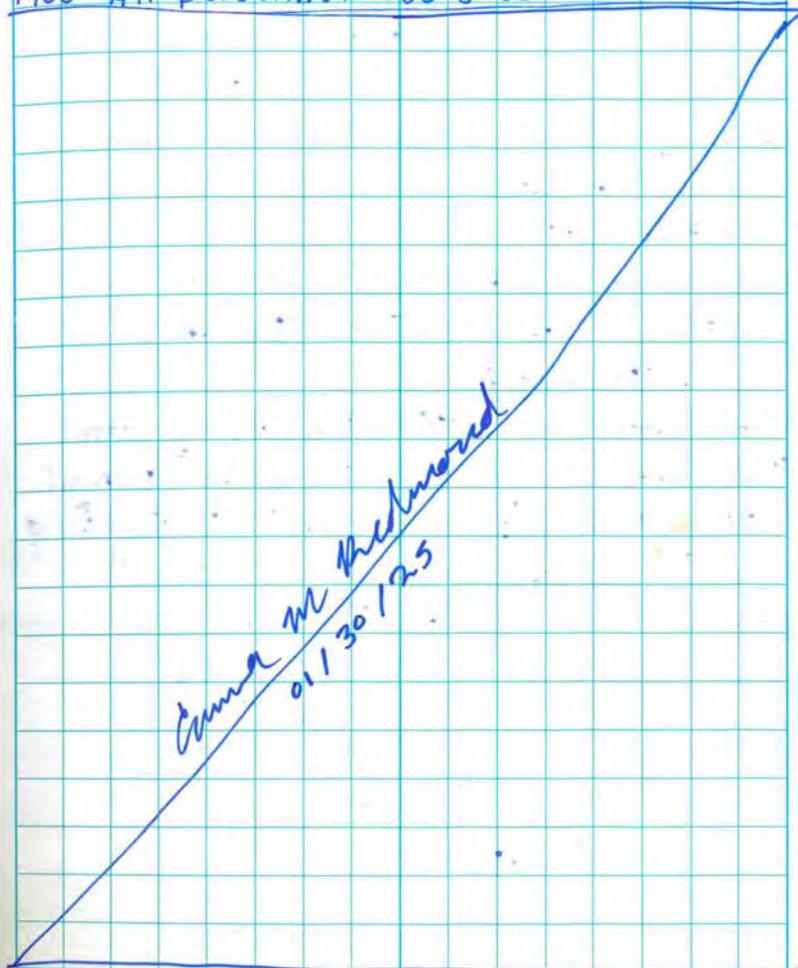
Location BREWSTER, NY Date 01/30/25Project / Client WELL REPLACEMENT / NYSDEC

1515: Complete ERT-10DA development

1550: Begin DGS-19SA development

1635: Complete DGS-19SA development

1700: All personnel off site



Location BREWSTER, NY

Date 1/31/25

Project / Client WELL REPLACEMENT / NYSDEC

WEATHER: AM- 37°F, <sup>lightrain</sup> Cloudy, wind 6mph SW

PPE: Mod level D

PERSONNEL: CDM Smith - Emma Redmond

Parrott Wolff - Lee Penrod

Lamont Clemons

Zach Patternosier

PURPOSE: Develop DGS-191A and DGS-19DA

0700: PW on site

0740: Redmond on site

0800: Redmond calibrates equipment

0845: Begin purging DGS-191A and  
DGS-19DA

0930 Complete DGS-191A development

0940 Complete DGS-19DA development

1000: Moving drums, locking building  
packing up

1130 All personelle off site

Emma M. Redmond  
01/31/25

Location \_\_\_\_\_

Date \_\_\_\_\_

Project / Client \_\_\_\_\_

Location Brewster, NY

Date 4/21/25 87

Project / Client Brewster Village Well Field / NYSDEC

Mobilization / Synoptics

Weather: 55°F - Cloudy

PPE: Mod. Level D

Personnel: M. Renko

E. Rosenzweig

Purpose: Mobilize equipment and bottles to the site and collect water levels for synoptic round, for the Injection Pilot Study Baseline Sampling.

12<sup>00</sup> - M. Renko + E. Rosenzweig arrive onsite; H&S meeting w/ tick emphasis.

12<sup>00</sup> - Begin collecting synoptic round. All GW data will be recorded on synoptics field form.

1315 - Synoptics complete; M. Renko and E. Rosenzweig unload vehicles and stage equipment and coolers in lobby of former Brewster dealership.

1600 - All personnel offsite

*M. Renko*

4/21/25

RE in the Rain

Location Brewster, NY Date 4/22/25Project / Client Brewster Village Well Field / NYSDDECIPS Baseline GW SamplingWeather: 52°F Foggy / 75°F overcastPPE: Mod. level DPersonnel: M. RenkoE. Rosenzweig } COM SmithC. Halton }

Purpose: Begin Injection-Pilot Study (IPS)  
Baseline GW Sampling. Will begin  
 by sampling well field locations  
first.

0630: M. Renko onsite; begin prepping  
paperwork

Iteration Calibration

<u>S/N</u>	<u>Time</u>	<u>Temp</u>	<u>pH</u>	<u>ORP</u>	<u>Cond</u>	<u>Turb</u>	<u>DO</u>
<u>213177</u>	<u>0710</u>	<u>15.56</u>	<u>3.97</u>	<u>419</u>	<u>4.69</u>	<u>0.1</u>	<u>19.48</u>
			<u>4.06</u>		<u>4.50</u>	<u>0.1</u>	<u>18.52</u>
<u>2194</u>	<u>0717</u>	<u>15.26</u>	<u>4.15</u>	<u>401</u>	<u>4.96</u>	<u>1.9</u>	<u>11.33</u>
			<u>3.77</u>	<u>402</u>	<u>4.50</u>	<u>0.0</u>	<u>7.83</u>

PID Cal

<u>SN</u>	<u>Time</u>	<u>PPM</u>
<u>211731</u>	<u>735</u>	<u>0.1</u>
	<u>741</u>	<u>104.2</u>

0750 - Move to well field and setup on

0800 - Begin purging at DGC-1D and

DGC-1I.

Mattie M 4/22/25

Location Brewster, NY Date 4/22/25Project / Client Brewster Village Well Field / NYSDDECIPS Baseline Sampling

0910: Collect 340012-GW-DGC-1D-042225

0915: Collect 340012-GW-DGC-1I-042225

\* 340012-GW-DGC-1D-042225 is an  
MS/MSD.

0925: Begin purging DGC-1S

10:15: Collect 340012-GW-DGC-1S-042225

10:30: All wells complete in Village  
well field. Move to staging  
area to discard 10W in drums  
and collect blanks.

10:45: Correction - COM-3 and TH-7  
are within Village well field property.  
Move to TH-7 to collect groundwater  
samples.

10:50: Begin purging TH-7.

11:05: Collect 340012-GW-TH-7-042225

11:15: Collect TB-01-042225

11:30: Collect EB-01-042225

11:35: Collect FB-01-042225

1200: Move to DGC-18 cluster

1300: Collect 340012-GW-DGC-18I-042225

1330: Collect 340012-GW-DGC-18S-042225

1330: Move all personnel and  
equipment to staging area.

Mattie M 4/22/25 Return to the room

Location Brewster, NY

Date 4/22/25

Project / Client Brewster Village Wellfield / NYSDEC

Baseline Sampling

- 1700 - purchase ice and begin sample management of samples being shipped out today.
- 1745 - All samples QC'd
- 1800 - All personnel offsite to delivery samples via FedEx priority overnight shipping. A total of One (1) cooler shipped. Tracking #: 8807 2702 2065.

\* This logbook is now relinquished to E. Rosenzweig.

*[Signature]*  
*[Signature]*  
 4/22/25

Location Brewster, NY

Date 4/23/25

Project / Client Brewster Village Wellfield

Baseline Sampling NYSDEC

Weather: 55, Clear

DPE: Mod level D

Personal: E. Rosenzweig

C. Halton

Purpose: Continue with IPS

Baseline GW Sampling

0630 E. Rosenzweig on site to begin paperwork / Calibration

0705 Began Calibration on

H<sub>2</sub>O: LAS

SN	Time	Temp	PH	ORP	Cond	Tur	DO
213177	700	15.88	7.97	263	0.000	839	10.23
			3.95		9.99	1.0	10.66
21194	715	15.84	6.6	200	0.000	137	12.18
			3.70		4.56	0.9	8.77

PID Cal

SN	Time	PPM
211731	720	0.0
	725	0.0

730 Mob to DOT Area to start Collecting Samples

745 C. Halton on Site from CDM Smith to assist w/ Sample Collection

*[Signature]* 4/23/25 *[Signature]*

Location Brewster, NY Date 9/23/25Project / Client Brewster Village Well FieldBaseline SamplingSample info

<u>Sample id</u>	<u>Sample time</u>
TB-02-042325	0640
FB-02-042325	0645
EB-02-042325	0650
340012-DGC-81-042325	0915
340012-DGC-75-042325	0945
340012-DGC-72-042325	1045
340012-DGC-75-042325	1030
340012-DGC-71-042325	1120
340012-DGC-70-042325	1235
340012-DGC-171A-042325	1310

1315 Back to dealership to  
start preparing samples  
for shipping

Fed ex # 8857 5292 0540

1520 off site to drop samples  
to Fed ex

1575 drop samples off

Note had issues w/ one of the  
display units on truck  
single shot w/ P.T.  
Resolution: Fedex now out  
for first AM delivery

E. Ramsey 9/23/25

Location Brewster, NY Date 9/24/25Project / Client Brewster Village Well FieldBaseline SamplingLocation Alton # 50Location Alton level DLocation C RosemeyerLocation C Halton

1230 C Rosemeyer on site

Collected GAD/OC samples

TB-03-042425 @ 0635

EB-73-042425 @ 0640

FB-73-042425 @ 0645

1700 C Halton on site

Heiba Calibration

M. Trans temp PH ORP Cond Tur DO

1575	15.11	636	167	0.000	175	10.00
------	-------	-----	-----	-------	-----	-------

3.75	0.4	0.5	7.85
------	-----	-----	------

1577	0.715	15.26	652	177	0.000	15.34	15.39
------	-------	-------	-----	-----	-------	-------	-------

3.89	0.3	9.48
------	-----	------

1700 Cal

1730

1731

Time 8PM

715 3.6

730 0.1

1900 Gallie on DGC-601

to Dec 163

1900 Calm Get hand held

Display to Read use Heiba

E. Ramsey 9/24/25

Location Brewster, NJ Date 4/23/25Project / Client Brewster Village Well FieldBaseline SamplingSample info

<u>Sample id</u>	<u>Sample time</u>
TB-02-042325	0640
FB-02-042325	0645
EB-02-042325	0650
340012-DGL-81-042325	0915
340012-DGL-75-042325	0945
340012-DGL-92-042325	1045
340012-DGL-75-042325	1030
340012-DGL-71-042325	1120
340012-DGL-70-042325	1235
340012-DGL-171A-042325	1310

1315 Back to dealership to  
start preparing samples  
for shipping

**Fed ex #** 8807 5292 0540

1570 off site to drop samples  
to Fed ex

1575 drop samples off

Note had issues w/ one of the  
display units on the site

sample shot w/ Pure

Resolution: Fedex now out  
for last AM delivery

E. Ramsey 4/23/25

Location Brewster, NJ Date 4/24/25 93Project / Client Brewster Village Well FieldBaseline Sampling

Weather Clear to 55°  
PTG: Mod level D  
Personnel: C. Rosenbaum  
C. Halton

0630 C. Rosenbaum on site  
- Collected G/L/O/C samples  
TB-03-042425 @ 0635  
EB-03-042425 @ 0640  
FB-03-042425 @ 0645

0700 C. Halton on site

Horiba Calibration

SN	Time	temp	PH	ORP	Cond	Tor	DO
21194	0705	15.11	6.36	167	0.00	100	10.00
			3.75		0.4	0.5	9.85
213177	0715	15.36	6.52	147	0.00	1534	15.39
			3.89		2.04	0.5	9.48

PID Cell

SN	Time	SP14
311731	715	3.6
	730	3.1

740 Setup on DGL-61  
& DGL-165

BCC cannot get hand held

Display to read on Horiba

E. Ramsey 4/24/25

Location Branter NY Date 4/25/05

Project / Client Branter Well Field

Baseline Sampling

1742 Arrive Arrived @ Hotel  
from the environmental

Baseline Calibration

SW	Time	Temp	PH	ORP	Cond	Turb	DO
21194	11:05	17.27	10.5	187	114	1154	9.1
	11:10		9.91	110	114	1154	9.1

1135 Set up on (193A-195A)

Sample Summary table

715-33-042425	0635
EB-03-042425	0640
FB-03-042425	0645
340012-GW-DGC-62-042425	0900
340012-GW-DGC-165-042425	1045
340012-GW-DGC-167-042425	1150
340012-GW-DGC-193A-042425	1215
340012-GW-DGC-191A-042425	1315
340012-GW-DGC-35-042425	1335

NOTE: DGC-62 - Triple Vol  
Collected for MS/MSD  
Sample

1530 off site  
1545 samples dropped off  
to lab

Signature

Location Branter NY Date 4/25/05

Project / Client Branter Village Well Field

Baseline Sampling

Weather: am High 55° 1 mph SW  
PM Partly Cloudy 77° 3 mph SW

APC: Med level D

Personal Eric Ruppberg  
Cathy Hutton

0600 E Branter on site

Begin Equipment  
Calibration

Baseline Calibration:

SW	Time	Temp	PH	ORP	Cond	Turb	DO
21194	0600	17.03	9.31	187	0.00	193	12.18
<del>21194</del>			3.87		4.54	0.8	8.94
32096	0620	16.83	5.17	117	0.00	142	10.20
			3.75		4.57	0.1	9.83

PID Calibration

GA

Time	PM
0620	0.8
0624	2.0

QA/QC Samples

TB-04-042525	0630
FB-04-042525	0635
EB-04-042525	0645

Collected from Sample Facility

ER  
4/25/05

Location Brewster, NY Date 4/25/25

Project / Client Brewster Village Well field  
Baseline Sampling

0710 C Halton on site  
 0740 Domenic Consentino (D)  
 from the Village of Brewster  
 Stopped by while setting  
 up on CDM-3.  
 I thanked him for all  
 the Village has been  
 doing maintaining paths  
 to the wells.  
 He asked if we  
 needed anything and  
 gave me his card w/  
 email address

0750 DC off site.

Sample Summary table

FB-04-042525	0640
EB-04-042525	0645
FTS-04-042525	0650
340017-GW-CDM3-042525	0845
340012-GW-DC-31-042525	0835
340012-GW-TH-13-042525	0750
340012-GW-DC-17-PA-042525	1000
340012-GW-MW-90-042525	0840

NOTE MW-90 is dup of DC-31

Ekoan 4/25/25

Location Brewster, NY Date 4/25/25 97

Project / Client Brewster Village Well field  
Baseline Sampling

1400 Picking Conts (1) has  
 drop off to ALS  
 Shipping Center in  
 Albany, NY  
 1415 off site & ter  
 securing site Ekg.

*[Handwritten signature]*  
 4/25/25

Location Brewster, NY Date 4/28/05  
 Project / Client Brewster Village Well Field  
Baseline Sampling

Weather: Clear 65° 5 mph NW  
 PM Clear 73

PPE Mod Level D

0640 Mike Hoffman on site  
 from CDM Smith to  
 conduct system O&M.  
 See O&M notes for details  
 - MA completed Hach  
 Calibration. See Cal  
 Sheet for details

1030 E Rosenzweig on site

1100 Collected QA/QC samples

TR05-042925 1105

EB05-042925 1110

FB05-042925 1115

1105 M Hoffman setting up on  
 the ERT-10 cluster (6/1E)

1145 old ice got ice for samples

1215 set up on ERT-1 cluster

*[Signature]*  
 4/28/05

Location Brewster, NY Date 4/28/05<sup>99</sup>  
 Project / Client Brewster Village Well Field  
Baseline Sampling

Sample Summary table

TR-05-042925	1105
EB-05-042925	1110
FB-05-042925	1115
340012-GW-ERT-10IA-042925	1338
340012-GW-ERT-10DA-042925	1340
340012-GW-ERT-11-042925	1400
340012-GW-ERT-15-042925	1310
340012-GW-MW-901-042925	1343
1430 Preparing samples for Shipping.	

Fedex Shipping #

8808 6532 9872

1515 Sydney Nissen on site  
 from CDM Smith with  
 1 Hach DR-900 and  
 1 Hach DR-890 Ferris from  
 test units.

1545 old site

*[Signature]*  
 4/28/05

Location Brewster, NY Date 8/29/25  
Project / Client Brewster Village Well Field  
Baseline Sampling

Weather: Am Clear 7-60 Smply SSC  
Am Clear 7B 13 mph S

PPE: Mod level D

Personnel: E Rosenweig - 0615  
Mike Hoffman - 0700

Purpose: Continue Baseline  
IPS Groundwater  
monitoring

0615 E Rosenweig on site  
to Begin Sampling  
Paperwork

Collecting QA/QC Samples

TB-06-042925 - 0630  
EB-06-042925  
FB-06-042925

Horiba Calibration

SD#	Time	temp	pH	ORP	Spec	Cond	Tur	DO
21194	0700	16.24	4.35	258	4.42	101	5.1	10.17
32596			3.98		4.44		1.5	
<del>21377</del>	0705	16.21	3.96	246	4.23	101	2.3	10.54
			4.00		4.49		0.0	

MH set up on IPS-MW01  
ER set up on ERT-61

E Rosenweig 8/29/25

Location Brewster, NY Date 4/29/25<sup>101</sup>  
Project / Client Brewster Village Well Field  
Baseline Sampling

Sample Summary table

TB-06-042925	630
EB-06-042925	640
FB-06-042925	650
340012-GW-IPS-MW-01-042925	850
340012-GW-IPS-MW-021-042925	1300
340012-GW-IPS-MW-020-042925	1110
340012-GW-IPS-MW-041-042925	1220
340012-GW-IPS-MW-040-042925	1105
340012-GW-ERT-61-042925	0955
340012-GW-MW-802-042925	1305

Sample Analysis: VOC  
TAM Metals  
TOC  
Nitrate  
Sulfate  
Chloride  
AIC

(RSK) Ethene/Methane/Ethane  
DHC

- w/ the exception of DHC  
samples sent to AIC.  
- DHC sent to Microbac  
in Tenn.

Corrections 4/29/25

Location Brewster, NY Date 4/29/25  
 Project / Client Brewster Village Well Field

### Baseline Sampling

Shipping Date

ALS

8808 9477 6190

8808 9477 6178

8808 9477 6189

Microbar

8808 9467 0773

8808 9467 0762

1555 M Hoffman off site  
 to collect samples  
 1630 E Rosenzweig off  
 site after securing  
 Bldg.

*[Signature]*

4/29/25

Location Brewster, NY Date 4/30/25  
 Project / Client Brewster Village Well Field

### Baseline Sampling

Weather: 65° Partly Cloudy 9 NW

69° Sunny 10 NW

PPE: Mod level D

Personnel: E Rosenzweig 615

M Hoffman 645

Purpose: Continue Baseline

IPS Sampling

Hociba Calibration

~~2114 6:44~~

SV #	Time	Temp	pH	ORP	Spec	CON	TDS	DO
32076	6:55	14.1	11.0	250	4.55	0.3	9.53	
		4.00			4.49	0.0		
2114	06:48	18.03	3.25	270	4.32	0.0	9.22	
		3.98			4.44	0.0		

730 M Hoffman set up on

the DGC-15 cluster

to sample all three

Wells (O/E/S).

- E Rosenzweig set up

on ERT 5-F

1145 Sampling Completed

for the day. Began

Packing 1 cooler

for ALS for VOC Analysis.

SRM 4/30/25

Location Brewster, NY Date 4/30/25  
 Project / Client Brewster Village Well Field  
Baseline Sampling

Sample Summary table

TB-07-043025	0630
EB-07-043025	0640
FB-07-043025	0650
340012-GW-DGL-14S-043025	1035
340012-GW-DGL-14I-043025	1014
340012-GW-DGL-14D-043025	0825
340012-GW-ERT-32-043025	0820
340012-GW-ERT-5I-043025	0934
340012-GW-ERT-7I-043025	1030

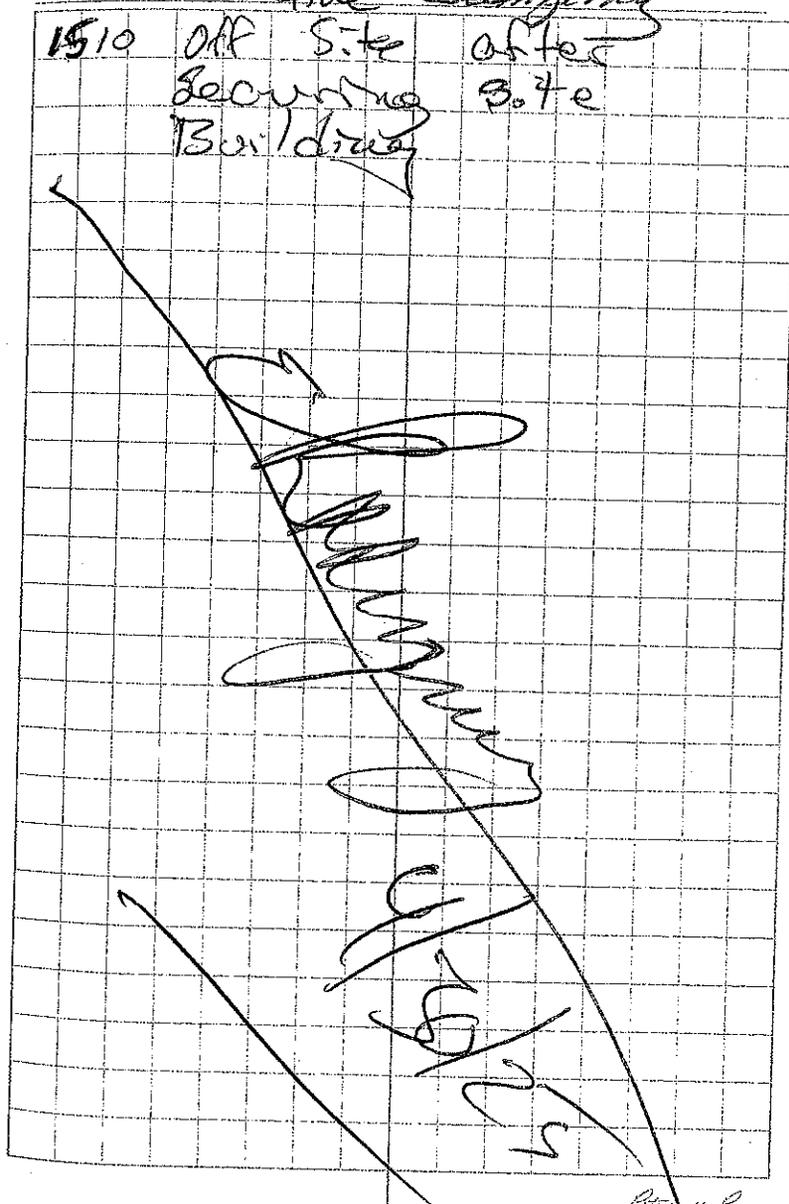
VOC Only for all samples

1300 Began sample prep for 5/1/25 sampling  
 1430 Conducting inventory of on site drums.  
 49 total (inc 3 empty) of 46 wt cont 19 have solid (soil) and 27 have aqueous contents estimated

1500 1 cooler shipped w/ VOC samples to ALS via Fed Ex #7809 2433 9344  
 E. R. ... 4/30/25

Location Brewster, NY Date 4/30/25  
 Project / Client Brewster Village Well Field  
Baseline Sampling

1510 Off site after securing site Building







# Appendix E 2024 Periodic Review Report Data Tables

Table 1 Groundwater Treatment System Pumping Volumes  
February 2008 through December 2024  
Periodic Review Report 2024  
Brewster Village Well Field - Site 3-40-012

Date	ERTEW5		ERTEW6		ERTEW7		Combined Influent	
	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)
2/29/2008	18	1,324,645	18	272,925	13	2,453,764	48	4,051,335
3/7/2008	17	1,495,321	20	353,840	13	2,584,020	49	4,433,181
3/14/2008	12	1,523,959	24	354,009	14	2,606,916	51	4,484,884
3/24/2008	15	1,750,021	24	486,976	14	2,825,147	54	5,062,144
3/31/2008	17	1,904,268	23	487,705	15	2,976,897	55	5,368,871
4/7/2008	18	2,056,320	21	522,759	16	3,143,507	56	5,722,586
4/14/2008	20	2,186,467	19	532,393	16	3,312,573	55	6,031,433
4/21/2008	14	2,331,913	23	537,358	15	3,529,825	53	6,399,096
4/29/2008	12	2,498,257	23	576,003	14	3,646,299	50	6,720,559
5/12/2008	16	2,678,554	21	597,223	16	3,824,564	54	7,100,341
5/19/2008	13	2,822,973	15	617,080	15	3,989,764	42	7,429,817
6/6/2008	21	3,150,964	13	636,937	13	4,377,679	47	8,165,580
6/13/2008	19	3,198,989	15	637,075	14	4,422,679	49	8,258,744
6/19/2008	19	3,281,586	19	689,236	12	4,488,708	49	8,459,529
6/24/2008	17	3,403,374	0	755,704	13	4,575,187	29	8,734,266
7/11/2008	23	3,553,688	21	808,440	16	4,687,311	60	9,049,439
7/18/2008	22	3,556,987	21	809,268	16	4,693,278	59	9,059,533
7/25/2008	23	3,557,866	21	809,653	16	4,699,287	60	9,066,805
7/31/2008	21	3,705,618	21	830,214	16	4,810,950	58	9,346,782
8/7/2008	0	3,730,163	22	832,633	22	4,897,020	44	9,459,815
8/29/2008	22	3,839,326	4	880,496	19	5,173,524	46	9,893,347
9/5/2008	22	4,059,790	4	893,340	17	5,185,288	43	10,138,418
9/12/2008	0	4,110,414	0	902,050	0	5,223,644	0	10,236,108
9/19/2008	24	4,334,401	3	935,953	15	5,380,150	42	10,650,504
9/26/2008	23	4,570,708	3	965,118	15	5,525,211	40	11,061,037
10/3/2008	23	4,794,546	2	985,183	12	5,658,214	37	11,437,943
10/10/2008	23	5,024,665	2	991,915	10	5,765,005	34	11,781,585
10/17/2008	23	5,254,819	0	1,005,207	8	5,853,736	31	12,113,762
10/24/2008	22	5,482,619	0	1,005,207	6	5,921,258	28	12,409,084
10/31/2008	19	5,579,304	2	1,005,207	5	5,946,426	25	12,530,937
11/7/2008	11	5,733,990	2	1,005,213	3	5,984,844	16	12,724,047
11/14/2008	9	5,827,978	2	1,005,213	0	5,989,913	11	12,823,104
11/21/2008	25	5,945,312	2	1,005,213	21	6,039,624	47	12,990,149

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February 2008 through December 2024  
Periodic Review Report 2024  
Brewster Village Well Field - Site 3-40-012

Date	ERTEW5		ERTEW6		ERTEW7		Combined Influent	
	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)
11/28/2008	0	6,018,782	0	1,005,213	0	6,100,954	0	13,124,949
12/5/2008	0	6,018,938	0	1,005,217	0	6,101,083	0	13,125,238
12/12/2008	21	6,130,099	2	1,005,233	12	6,168,418	35	13,303,750
12/19/2008	21	6,340,169	2	1,005,233	12	6,290,243	34	13,635,645
12/26/2008	21	6,549,295	2	1,005,233	13	6,413,932	35	13,968,460
1/2/2009	21	6,764,422	2	1,005,233	13	6,544,977	35	14,314,632
1/9/2009	21	6,974,646	2	1,005,233	6	6,655,737	28	14,635,616
1/16/2009	21	7,184,524	2	1,005,233	6	6,720,821	29	14,910,578
1/22/2009	20	7,399,747	2	1,005,233	12	6,796,877	34	15,201,857
1/30/2009	21	7,597,792	2	1,005,233	14	6,927,807	37	15,530,832
2/6/2009	20	7,800,828	2	1,005,233	14	7,065,627	35	15,871,688
2/13/2009	20	8,003,109	2	1,005,284	14	7,201,647	36	16,210,040
2/20/2009	20	8,208,958	0	1,005,311	14	7,339,821	34	16,554,090
2/27/2009	19	8,409,772	3	1,008,404	14	7,480,880	36	16,899,056
3/6/2009	20	8,603,872	2	1,033,408	14	7,622,559	36	17,259,839
3/13/2009	19	8,798,462	1	1,039,346	14	7,760,276	35	17,598,084
3/20/2009	0	8,985,333	0	1,039,346	0	7,894,976	0	17,919,655
3/27/2009	0	8,985,371	2	1,039,724	14	7,974,378	16	17,999,473
4/3/2009	23	9,080,490	3	1,051,725	13	8,108,801	38	18,241,016
4/10/2009	22	9,005,445	2	1,309,261	14	8,850,317	39	19,165,023
4/17/2009	22	9,230,579	2	1,326,865	14	8,994,419	38	19,551,863
4/24/2009	22	9,454,950	2	1,343,269	14	9,135,992	38	19,934,211
5/1/2009	22	9,677,877	0	1,348,423	0	9,157,480	22	20,183,780
5/8/2009	23	9,903,262	2	1,352,674	17	9,203,189	42	20,459,125
5/13/2009	23	10,132,152	3	1,371,924	15	9,370,768	41	20,874,844
5/22/2009	23	10,364,045	1	1,388,107	15	9,520,355	38	21,272,507
5/29/2009	23	10,593,596	4	1,397,138	15	9,670,056	41	21,660,790
6/5/2009	23	10,822,856	3	1,433,580	15	9,817,544	40	22,073,980
6/12/2009	23	11,051,550	0	1,440,959	14	9,964,730	37	22,457,239
6/19/2009	23	11,280,232	0	1,440,959	15	10,110,527	37	22,831,718
6/26/2009	22	11,507,414	0	1,440,959	15	10,256,087	37	23,204,460
7/3/2009	22	11,729,902	4	1,457,145	15	10,403,479	41	23,590,526
7/10/2009	22	11,948,899	3	1,492,360	15	10,553,833	39	23,995,092

Table 1 Groundwater Treatment System Pumping Volumes  
February 2008 through December 2024  
Periodic Review Report 2024  
Brewster Village Well Field - Site 3-40-012

Date	ERTEW5		ERTEW6		ERTEW7		Combined Influent	
	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)
7/17/2009	23	12,169,364	4	1,519,709	16	10,709,598	42	24,398,671
7/24/2009	23	12,395,868	0	1,536,898	16	10,872,462	39	24,805,228
7/31/2009	22	12,621,557	1	1,541,562	16	11,034,486	40	25,197,605
8/7/2009	0	12,841,386	0	1,568,039	0	11,190,981	0	25,600,406
8/14/2009	23	12,965,100	3	1,589,389	15	11,271,133	40	25,825,622
8/21/2009	23	13,191,453	1	1,605,456	15	11,418,603	39	26,215,512
8/28/2009	22	13,329,379	4	1,627,865	17	11,515,573	43	26,472,817
9/4/2009	23	13,552,964	1	1,658,310	16	11,676,814	40	26,888,088
9/11/2009	22	13,780,933	5	1,670,500	15	11,838,762	42	27,290,195
9/18/2009	22	14,004,880	2	1,710,085	15	11,987,317	39	27,702,282
9/21/2009	22	14,100,481	0	1,715,640	14	12,049,764	36	27,865,885
10/10/2009	21	14,696,773	0	1,789,234	14	12,474,464	36	28,960,471
10/16/2009	22	14,884,177	2	1,790,697	14	12,592,100	37	29,266,974
10/23/2009	21	15,102,130	0	1,805,085	12	12,721,781	34	29,628,996
10/30/2009	21	15,319,405	4	1,821,273	14	12,851,239	39	29,991,917
11/6/2009	21	15,536,486	1	1,850,685	13	12,985,991	35	30,373,162
11/13/2009	22	15,753,743	0	1,856,116	11	13,104,365	32	30,714,224
11/20/2009	22	15,971,893	4	1,865,049	9	13,205,493	35	31,042,435
11/27/2009	22	16,191,094	3	1,901,197	7	13,288,778	32	31,381,069
12/4/2009	22	16,409,755	2	1,930,267	6	13,355,321	30	31,695,343
12/11/2009	22	16,628,065	2	1,949,840	5	13,409,910	29	31,987,815
12/18/2009	22	16,847,048	2	1,968,738	4	13,452,423	27	32,268,209
12/25/2009	22	17,066,320	4	1,990,404	3	13,485,536	30	32,542,260
1/1/2010	22	17,289,203	2	2,024,958	1	13,510,510	25	32,824,671
1/8/2010	22	17,513,559	1	2,037,056	0	13,514,324	23	33,064,939
1/16/2010	22	17,767,494	4	2,064,469	18	13,608,913	44	33,440,876
1/22/2010	21	17,955,205	3	2,094,307	18	13,763,315	42	33,812,827
1/29/2010	21	18,172,073	3	2,106,666	18	13,944,634	43	34,223,373
2/5/2010	21	18,386,794	3	2,135,908	19	14,132,871	43	34,655,573
2/12/2010	21	18,599,611	1	2,153,547	19	14,322,820	42	35,075,978
2/19/2010	21	18,810,800	0	2,161,762	19	14,513,626	40	35,486,188
2/26/2010	21	19,020,352	5	2,181,147	19	14,705,158	45	35,906,657
3/5/2010	21	19,230,932	4	2,226,889	19	14,899,606	45	36,357,427

Table 1 Groundwater Treatment System Pumping Volumes  
February 2008 through December 2024  
Periodic Review Report 2024  
Brewster Village Well Field - Site 3-40-012

Date	ERTEW5		ERTEW6		ERTEW7		Combined Influent	
	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)
3/12/2010	21	19,442,651	0	2,244,498	19	15,093,866	41	36,781,015
3/19/2010	21	19,605,155	0	2,244,499	20	15,243,931	41	37,093,585
3/26/2010	21	19,819,250	0	2,244,499	20	15,441,415	41	37,505,164
4/2/2010	22	20,033,778	4	2,254,781	20	15,638,664	45	37,927,223
4/9/2010	21	20,249,638	4	2,292,699	20	15,838,145	45	38,380,482
4/16/2010	21	20,465,225	4	2,330,078	20	16,036,607	44	38,831,910
4/23/2010	21	20,673,210	0	2,361,230	20	16,230,432	41	39,264,872
4/30/2010	51	20,969,658	13	2,409,102	49	16,509,303	113	39,888,063
5/7/2010	51	21,489,031	13	2,541,276	49	16,999,876	113	41,030,183
5/14/2010	20	21,930,807	5	2,653,523	19	17,415,852	45	42,000,182
5/28/2010	21	22,043,416	0	2,680,814	19	17,519,746	40	42,243,976
6/4/2010	21	22,253,471	0	2,680,814	19	17,710,009	40	42,644,294
6/11/2010	20	22,460,100	3	2,694,248	19	17,899,106	43	43,053,454
6/18/2010	20	22,666,323	3	2,725,487	19	18,089,994	42	43,481,804
6/25/2010	20	22,870,099	3	2,757,235	19	18,278,397	42	43,905,731
7/2/2010	20	23,074,083	3	2,788,332	18	18,465,127	42	44,327,542
7/9/2010	20	23,277,784	3	2,815,392	18	18,649,548	41	44,742,724
7/16/2010	20	23,481,578	2	2,839,524	18	18,832,346	41	45,153,448
7/23/2010	20	23,684,915	2	2,861,691	18	19,012,695	40	45,559,301
7/30/2010	20	23,888,172	3	2,885,947	17	19,189,721	41	45,963,840
8/6/2010	20	24,026,434	2	2,901,796	17	19,307,649	40	46,235,879
8/13/2010	21	24,226,613	3	2,921,321	17	19,477,587	41	46,625,521
8/20/2010	21	24,354,035	0	2,926,677	17	19,585,547	38	46,866,259
8/27/2010	21	24,552,045	0	2,926,677	17	19,753,479	38	47,232,201
9/4/2010	21	24,770,095	0	2,926,702	17	19,938,322	38	47,635,119
9/10/2010	21	24,947,865	0	2,926,702	17	20,089,590	38	47,964,157
9/17/2010	21	25,155,254	0	2,926,702	17	20,263,737	38	48,345,693
9/24/2010	20	25,362,426	0	2,926,702	16	20,432,955	37	48,722,083
10/1/2010	21	25,569,214	4	2,938,100	16	20,596,768	40	49,104,082
10/8/2010	21	25,776,178	3	2,972,218	16	20,756,987	40	49,505,383
10/15/2010	20	25,982,271	3	3,001,898	16	20,914,773	39	49,898,942
10/22/2010	20	26,188,052	3	3,028,160	15	21,070,167	38	50,286,379

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February 2008 through December 2024  
Periodic Review Report 2024  
Brewster Village Well Field - Site 3-40-012

Date	ERTEW5		ERTEW6		ERTEW7		Combined Influent	
	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)
10/29/2010	20	26,392,138	4	3,055,781	15	21,223,367	39	50,671,286
11/5/2010	20	26,595,402	3	3,091,585	15	21,374,372	39	51,061,359
11/12/2010	0	26,717,210	3	3,123,944	15	21,524,936	18	51,366,090
11/19/2010	0	26,717,210	3	3,152,327	15	21,676,368	18	51,545,905
11/26/2010	0	26,717,210	2	3,176,091	15	21,826,482	17	51,719,783
12/1/2010	0	26,717,566	5	3,192,309	14	21,932,918	19	51,842,793
12/3/2010	0	26,717,566	4	3,205,075	14	21,974,533	19	51,897,174
12/10/2010	0	26,717,566	4	3,247,114	14	22,119,817	19	52,084,497
12/17/2010	0	26,717,749	4	3,287,041	15	22,267,057	19	52,271,847
12/24/2010	0	26,717,749	4	3,327,788	15	22,418,492	19	52,464,029
12/31/2010	0	26,717,751	4	3,369,000	15	22,572,707	19	52,659,458
1/7/2011	0	26,717,751	4	3,409,741	16	22,729,060	20	52,856,552
1/14/2011	0	26,717,751	4	3,450,597	15	22,884,949	19	53,053,297
1/21/2011	0	26,717,751	4	3,491,679	16	23,040,503	20	53,249,933
1/28/2011	0	26,717,787	4	3,520,135	16	23,150,995	20	53,388,917
2/4/2011	0	26,717,787	4	3,554,739	16	23,310,519	19	53,583,045
2/11/2011	0	26,717,787	3	3,588,760	16	23,471,474	19	53,778,021
2/18/2011	0	26,717,787	3	3,622,611	16	23,632,754	19	53,973,152
2/25/2011	16	26,737,926	3	3,656,277	16	23,794,082	35	54,188,285
3/4/2011	16	26,897,935	3	3,688,023	16	23,955,653	35	54,541,611
3/11/2011	12	26,990,253	3	3,707,599	12	24,046,064	27	54,743,916
3/18/2011	20	27,158,404	3	3,738,555	17	24,194,196	40	55,091,155
3/25/2011	19	27,355,498	3	3,769,208	18	24,370,898	40	55,495,604
4/1/2011	19	27,550,241	4	3,803,779	18	24,541,071	41	55,895,091
4/8/2011	21	27,750,613	4	3,843,208	0	24,672,766	25	56,266,587
4/15/2011	21	27,958,624	4	3,881,533	0	24,791,005	24	56,631,162
4/22/2011	21	28,167,760	0	3,915,379	0	24,896,988	21	56,980,127
4/29/2011	20	28,357,999	0	3,915,381	18	24,917,803	39	57,191,183
5/3/2011	21	28,475,197	0	3,915,381	18	25,021,332	39	57,411,910
5/17/2011	20	28,877,883	7	4,061,172	18	25,377,573	46	58,316,628
5/20/2011	20	28,964,754	7	4,092,579	18	25,455,131	46	58,512,464
5/27/2011	20	29,165,527	7	4,165,914	18	25,636,444	45	58,967,885

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February 2008 through December 2024  
Periodic Review Report 2024  
Brewster Village Well Field - Site 3-40-012

Date	ERTEW5		ERTEW6		ERTEW7		Combined Influent	
	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)
6/3/2011	19	29,357,158	7	4,239,463	18	25,815,824	44	59,412,445
6/12/2011	19	29,540,498	7	4,315,701	18	26,001,555	44	59,857,754
6/17/2011	19	29,674,554	7	4,368,183	18	26,129,170	44	60,171,907
6/23/2011	19	29,834,057	7	4,431,219	18	26,282,382	43	60,547,658
6/3/2011	19	29,357,158	7	4,239,463	18	25,815,824	44	59,412,445
6/10/2011	0	29,518,090	0	4,306,903	0	25,980,320	0	59,805,313
6/17/2011	19	29,674,554	7	4,368,183	18	26,129,170	44	60,171,907
6/24/2011	18	29,860,609	7	4,441,774	18	26,307,973	44	60,610,356
7/1/2011	18	30,044,088	7	4,515,776	18	26,486,570	43	61,046,434
7/8/2011	19	30,143,963	7	4,556,005	17	26,581,510	44	61,281,478
7/15/2011	18	30,327,971	7	4,629,947	17	26,756,946	43	61,714,864
7/22/2011	18	30,510,750	7	4,704,323	18	26,931,911	43	62,146,984
7/29/2011	18	30,692,132	7	4,778,725	17	27,106,478	43	62,577,335
8/5/2011	18	30,871,619	8	4,853,975	17	27,281,222	42	63,006,816
8/12/2011	18	31,048,569	7	4,928,928	17	27,455,872	42	63,433,369
8/19/2011	17	31,224,852	7	5,003,279	17	27,630,406	42	63,858,537
8/26/2011	17	31,331,255	7	5,048,044	17	27,735,661	42	64,114,960
9/2/2011	13	31,458,168	7	5,109,977	18	27,882,951	38	64,451,096
9/9/2011	0	31,570,282	0	5,170,857	0	28,028,963	0	64,770,102
9/16/2011	13	31,694,007	7	5,241,797	18	28,201,758	38	65,137,562
9/23/2011	13	31,825,759	7	5,314,935	18	28,381,312	38	65,522,006
9/30/2011	13	31,957,820	7	5,387,569	18	28,561,112	38	65,906,501
10/7/2011	14	32,102,216	7	5,459,876	18	28,738,280	39	66,300,372
10/14/2011	0	32,221,639	0	5,519,204	0	28,885,059	0	66,625,902
10/21/2011	14	32,301,105	7	5,558,499	18	28,982,745	39	66,842,349
10/28/2011	14	32,444,336	7	5,629,229	18	29,161,237	39	67,234,802
11/4/2011	13	32,546,225	7	5,681,825	18	29,295,150	38	67,523,200
11/11/2011	13	32,680,311	7	5,751,636	18	29,475,517	38	67,907,464
11/18/2011	14	32,814,830	7	5,820,146	18	29,655,760	38	68,290,736
11/25/2011	14	32,955,752	7	5,887,572	18	29,836,798	39	68,680,122
12/9/2011	14	33,235,898	7	6,020,718	18	30,202,032	39	69,458,648
12/16/2011	13	33,351,327	6	6,076,575	18	30,359,137	37	69,787,039

Table 1 Groundwater Treatment System Pumping Volumes  
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Brewster Village Well Field - Site 3-40-012

Date	ERTEW5		ERTEW6		ERTEW7		Combined Influent	
	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)
12/23/2011	13	33,497,565	6	6,150,285	18	30,569,996	37	70,217,846
12/30/2011	12	33,622,658	6	6,214,184	19	30,755,809	37	70,592,651
1/6/2012	12	33,744,380	6	6,277,272	19	30,942,401	37	70,964,053
1/13/2012	13	33,829,509	6	6,319,408	18	31,072,213	37	71,221,130
1/20/2012	13	33,960,769	6	6,376,682	19	31,257,916	37	71,595,367
1/27/2012	13	34,091,737	6	6,432,833	19	31,444,964	37	71,969,534
2/3/2012	13	34,222,936	5	6,487,731	19	31,633,189	37	72,343,856
2/10/2012	13	34,353,053	5	6,541,426	19	31,821,697	37	72,716,176
2/17/2012	11	34,462,968	5	6,593,470	19	32,014,228	35	73,070,666
2/24/2012	11	34,569,583	5	6,644,843	19	32,207,659	35	73,422,085
3/2/2012	11	34,675,777	5	6,694,544	19	32,401,549	35	73,771,870
3/9/2012	11	34,783,143	5	6,742,010	19	32,596,203	35	74,121,356
3/16/2012	11	34,889,114	5	6,788,766	19	32,789,016	35	74,466,896
3/23/2012	16	35,004,130	4	6,819,118	19	32,974,838	39	74,798,086
3/30/2012	16	35,164,779	3	6,854,163	19	33,167,625	38	75,186,567
4/6/2012	16	35,323,621	3	6,888,218	19	33,359,192	38	75,571,031
4/13/2012	16	35,480,298	3	6,921,216	19	33,551,770	38	75,953,284
4/20/2012	16	35,638,921	3	6,952,867	19	33,745,487	38	76,337,275
4/27/2012	16	35,800,880	3	6,983,043	19	33,938,814	38	76,722,737
5/4/2012	16	35,963,419	3	7,011,632	19	34,131,737	38	77,106,788
5/11/2012	16	36,125,131	3	7,038,652	19	34,324,351	38	77,488,134
5/18/2012	16	36,286,925	2	7,063,922	19	34,516,443	37	77,867,290
5/4/2012	16	35,963,419	3	7,011,632	19	34,131,737	38	77,106,788
5/11/2012	16	36,125,131	3	7,038,652	19	34,324,351	38	77,488,134
5/18/2012	16	36,286,925	2	7,063,922	19	34,516,443	37	77,867,290
5/25/2012	16	36,446,617	2	7,087,276	19	34,707,775	37	78,241,668
6/1/2012	16	36,602,887	0	7,099,725	19	34,898,201	35	78,600,813
6/15/2012	14	36,903,629	2	7,124,839	19	35,273,756	35	79,302,224
6/22/2012	14	37,048,593	1	7,140,327	18	35,459,453	34	79,648,373
7/13/2012	14	37,386,013	1	7,156,708	19	35,910,079	33	80,452,800
7/20/2012	14	37,505,888	1	7,163,097	19	36,075,028	33	80,744,013
7/27/2012	14	37,645,059	0	7,164,203	19	36,265,378	32	81,074,640

Table 1 Groundwater Treatment System Pumping Volumes  
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Date	ERTEW5		ERTEW6		ERTEW7		Combined Influent	
	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)
8/3/2012	0	37,750,889	0	7,164,216	0	36,410,925	0	81,326,030
8/10/2012	15	37,791,205	1	7,166,042	19	36,459,963	35	81,417,210
8/17/2012	16	37,946,720	1	7,171,091	19	36,651,260	35	81,769,071
8/24/2012	15	38,101,563	1	7,171,093	19	36,843,157	35	82,115,813
8/31/2012	15	38,255,498	0	7,171,093	19	37,034,579	34	82,461,170
9/7/2012	15	38,410,697	0	7,171,093	18	37,223,079	34	82,804,869
9/14/2012	16	38,568,221	0	7,171,093	19	37,411,744	35	83,151,058
9/21/2012	16	38,726,691	0	7,171,093	19	37,600,394	35	83,498,178
9/28/2012	16	38,886,144	1	7,171,115	19	37,789,981	35	83,847,240
10/5/2012	16	39,047,953	1	7,173,855	19	37,979,352	36	84,201,160
10/12/2012	16	39,210,823	1	7,174,852	19	38,169,117	36	84,554,792
10/19/2012	16	39,373,958	0	7,174,861	19	38,359,323	35	84,908,142
10/26/2012	16	39,536,784	1	7,174,861	19	38,550,179	36	85,261,824
11/2/2012	0	39,617,654	0	7,174,861	0	38,649,859	0	85,442,374
11/9/2012	16	39,682,111	0	7,174,865	19	38,735,115	35	85,592,091
11/16/2012	16	39,843,287	0	7,174,865	19	38,928,561	35	85,946,713
11/23/2012	16	40,004,455	0	7,174,865	19	39,122,468	35	86,301,788
11/30/2012	16	40,165,783	0	7,174,865	19	39,315,402	35	86,656,050
12/7/2012	16	40,311,885	0	7,174,867	19	39,492,289	35	86,979,041
12/14/2012	16	40,471,645	0	7,174,867	19	39,683,387	35	87,329,899
12/21/2012	16	40,632,416	0	7,174,867	19	39,874,884	35	87,682,167
12/28/2012	16	40,793,305	0	7,174,867	19	40,066,343	35	88,034,515
1/4/2013	16	40,955,027	0	7,174,867	19	40,258,181	35	88,388,075
1/11/2013	13	41,100,733	0	7,174,867	19	40,446,569	31	88,722,169
1/18/2013	13	41,232,420	0	7,174,867	19	40,632,235	32	89,039,522
1/25/2013	14	41,366,184	0	7,174,867	18	40,816,038	33	89,357,089
2/1/2013	15	41,512,395	0	7,174,867	18	40,997,462	32	89,684,724
2/7/2013	0	41,619,820	0	7,174,868	0	41,131,213	0	89,925,901
2/15/2013	15	41,784,626	0	7,174,867	21	41,366,400	36	90,325,893
2/22/2013	14	41,931,854	0	7,174,867	22	41,580,272	36	90,686,993
3/1/2013	17	42,083,911	0	7,174,867	22	41,794,620	39	91,053,398
3/8/2013	17	42,255,636	0	7,174,867	22	42,014,544	39	91,445,047

Table 1 Groundwater Treatment System Pumping Volumes  
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Date	ERTEW5		ERTEW6		ERTEW7		Combined Influent	
	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)
3/15/2013	17	42,426,056	0	7,174,867	22	42,233,201	39	91,834,124
3/22/2013	0	42,546,830	0	7,174,867	22	42,455,465	22	92,177,162
3/29/2013	0	42,546,830	0	7,174,868	22	42,679,502	22	92,401,200
4/5/2013	0	42,546,830	0	7,174,868	23	42,904,728	23	92,626,426
4/12/2013	0	42,546,830	0	7,174,868	22	43,130,161	22	92,851,859
4/19/2013	0	42,546,830	0	7,174,868	22	43,353,397	22	93,075,095
4/26/2013	0	42,546,830	0	7,174,868	22	43,582,418	22	93,304,116
5/3/2013	0	42,546,830	0	7,174,868	22	43,807,382	22	93,529,080
5/10/2013	20	42,616,623	0	7,174,869	23	43,990,246	43	93,781,738
5/17/2013	18	42,811,404	0	7,174,869	23	44,216,824	41	94,203,097
5/24/2013	18	42,996,601	0	7,174,869	23	44,423,611	41	94,595,081
5/31/2013	18	43,181,087	0	7,174,869	23	44,644,460	41	95,000,416
6/7/2013	18	43,320,235	0	7,174,869	22	44,781,185	40	95,276,289
6/14/2013	22	43,520,552	0	7,174,869	23	44,927,834	45	95,623,255
6/19/2013	20	43,669,366	0	7,174,869	23	45,022,142	43	95,866,377
6/26/2013	19	43,907,167	0	7,174,869	22	45,289,792	42	96,371,828
7/3/2013	18	44,099,009	0	7,174,869	22	45,516,436	41	96,790,314
7/9/2013	18	44,203,860	0	7,174,869	23	45,645,954	40	97,024,683
7/27/2013	16	44,436,047	0	7,174,869	22	45,952,640	38	97,563,556
8/2/2013	16	44,569,682	0	7,174,869	22	46,142,102	38	97,886,653
8/9/2013	15	44,722,061	0	7,174,869	22	46,364,904	37	98,261,834
8/16/2013	17	44,857,113	0	7,174,870	22	46,555,743	39	98,587,726
8/23/2013	17	45,026,410	0	7,174,893	22	46,774,571	39	98,975,874
8/28/2013	17	45,147,224	0	7,174,893	22	46,929,663	38	99,251,780
9/6/2013	17	45,362,749	3	7,195,154	21	47,202,085	40	99,759,988
9/13/2013	0	45,522,051	0	7,210,005	0	47,401,239	0	100,133,295
9/20/2013	0	45,522,051	0	7,210,005	0	47,401,239	0	100,133,295
9/27/2013	17	45,535,413	0	7,210,005	21	47,417,771	38	100,163,189
10/4/2013	19	45,720,357	0	7,210,005	21	47,631,244	40	100,561,606
10/11/2013	19	45,903,534	3	7,214,096	0	47,825,611	21	100,943,241
10/18/2013	18	46,086,572	2	7,242,195	0	47,825,611	20	101,154,378
10/25/2013	0	46,188,175	0	7,250,540	0	47,825,681	0	101,264,396

Table 1 Groundwater Treatment System Pumping Volumes  
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Date	ERTEW5		ERTEW6		ERTEW7		Combined Influent	
	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)
11/1/2013	18	46,281,373	0	7,250,540	0	47,826,604	18	101,358,517
11/8/2013	17	46,456,330	0	7,250,540	0	47,826,604	17	101,533,474
11/15/2013	17	46,631,325	0	7,250,540	0	47,826,604	17	101,708,469
11/22/2013	17	46,800,936	0	7,250,540	0	47,830,428	17	101,881,904
11/29/2013	15	46,915,045	0	7,250,540	0	47,830,428	15	101,996,013
12/6/2013	14	47,361,300	0	7,250,540	21	48,096,595	36	102,708,435
12/13/2013	14	47,505,253	0	7,250,540	22	48,314,012	36	103,069,805
1/1/2014	14	47,607,434	0	7,250,540	22	48,469,948	36	103,327,922
1/3/2014	14	47,648,112	0	7,250,540	22	48,532,420	36	103,431,072
1/9/2014	14	47,769,493	0	7,250,540	21	48,720,118	35	103,740,151
1/17/2014	14	47,926,394	0	7,250,540	22	48,966,064	35	104,142,998
1/24/2014	14	48,063,918	0	7,250,540	22	49,184,746	35	104,499,204
1/31/2014	13	48,198,325	0	7,250,540	22	49,403,655	35	104,852,520
2/7/2014	13	48,330,074	0	7,250,540	22	49,622,873	34	105,203,487
2/14/2014	13	48,459,964	0	7,250,540	22	49,842,438	35	105,552,942
2/21/2014	13	48,542,730	0	7,250,540	21	49,985,489	34	105,778,759
2/28/2014	12	48,665,523	0	7,250,540	22	50,203,625	34	106,119,688
3/4/2014	0	48,700,336	0	7,250,540	0	50,267,858	0	106,218,734
3/19/2014	11	48,939,080	0	7,250,540	22	50,728,219	32	106,917,839
4/5/2014	11	49,207,078	1	7,254,180	22	51,252,416	34	107,713,674
4/11/2014	11	49,301,862	0	7,257,430	22	51,442,608	33	108,001,900
4/12/2014	11	49,317,580	0	7,257,430	22	51,474,129	33	108,049,139
4/24/2014	10	49,308,863	14	7,266,428	21	51,456,605	45	108,031,896
4/25/2014	0	49,311,389	0	7,269,675	0	51,461,655	0	108,042,719
5/2/2014	9	49,366,875	14	7,346,034	22	51,581,969	45	108,294,878
5/9/2014	9	49,460,961	14	7,483,660	22	51,798,615	45	108,743,236
5/16/2014	9	49,552,930	14	7,620,566	21	52,012,824	44	109,186,320
5/23/2014	9	49,642,021	13	7,756,307	21	52,225,829	43	109,624,157
5/30/2014	8	49,724,469	13	7,890,952	21	52,438,495	43	110,053,916
6/6/2014	0	49,776,132	0	7,978,174	0	52,577,880	0	110,332,186
6/13/2014	8	49,783,396	13	7,990,619	22	52,597,952	43	110,371,967
6/20/2014	7	49,857,591	13	8,124,571	21	52,814,110	41	110,796,272

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Date	ERTEW5		ERTEW6		ERTEW7		Combined Influent	
	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)
6/27/2014	6	49,918,651	13	8,258,258	21	53,028,637	40	111,205,546
7/4/2014	0	49,973,257	0	8,383,803	0	53,230,579	0	111,587,639
7/11/2014	5	50,001,744	13	8,454,032	21	53,344,189	39	111,799,965
7/18/2014	5	50,048,055	13	8,584,904	21	53,556,332	38	112,189,291
7/25/2014	4	50,092,785	13	8,713,818	21	53,766,740	38	112,573,343
8/1/2014	3	50,132,446	13	8,841,358	21	53,979,683	37	112,953,487
8/8/2014	3	50,164,627	13	8,968,395	21	54,193,255	37	113,326,277
8/15/2014	3	50,196,536	12	9,095,239	21	54,405,588	37	113,697,363
8/22/2014	2	50,223,866	13	9,221,777	21	54,617,875	36	114,063,518
8/29/2014	2	50,244,131	13	9,347,955	21	54,828,403	35	114,420,489
9/5/2014	0	50,253,298	2	9,440,823	21	55,002,550	23	114,696,671
9/9/2014	1	50,255,452	0	9,444,152	21	55,074,964	22	114,774,568
10/1/2014	11	50,588,092	14	9,799,564	21	55,752,916	45	116,140,572
11/6/2014	12	50,909,135	0	10,162,170	22	56,898,580	34	117,969,885
12/3/2014	11	51,135,012	0	10,162,174	14	57,442,900	25	118,740,086
12/8/2014		51,236,262		10,162,202		57,125,232		118,523,696
1/7/2015	13	51,767,388	0	10,162,202	20	57,847,958	33	119,777,548
3/2/2015	13	52,748,316	0	10,162,202	20	58,025,442	33	120,935,960
4/10/2015	13	52,913,247	12	10,162,427	21	59,133,255	45	122,208,929
5/7/2015	13	53,350,645	12	10,395,686	20	59,799,946	44	123,546,277
6/3/2015	13	53,854,329	13	10,880,638	19	60,545,600	44	125,280,567
7/9/2015	13	54,459,634	13	11,463,928	19	61,448,208	44	127,371,770
8/12/2015	11	54,833,914	0	11,464,153	20	62,055,007	31	128,353,074
9/1/2015	11	55,002,845	0	11,464,153	20	62,358,981	31	128,825,979
9/22/2015		55,292,765		11,464,614		62,891,761		129,649,140
10/6/2015		55,458,688		11,464,623		63,217,733		130,141,044
10/14/2015		55,560,013		11,464,630		63,439,224		130,463,867
10/20/2015		55,622,934		11,464,697		63,554,961		130,642,592
10/27/2015		55,639,056		11,464,697		63,588,771		130,692,524
11/3/2015		55,676,955		11,464,697		63,668,528		130,810,180
11/10/2015	10	55,709,923	0	11,464,796	20	63,738,123	29	130,912,842
12/1/2015	10	55,961,992	10	11,645,423	17	64,207,706	36	131,815,121

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Date	ERTEW5		ERTEW6		ERTEW7		Combined Influent	
	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)
12/8/2015		56,056,271		11,740,359		64,364,877		132,161,507
12/15/2015		56,134,099		11,818,545		64,491,507		132,444,151
12/22/2015		56,232,861		11,916,867		64,652,612		132,802,340
12/29/2015		56,269,785		11,953,279		64,712,886		132,935,950
1/4/2016	10	56,306,261	10	11,989,721	16	64,773,624	36	133,069,606
1/5/2016		56,318,999		12,002,019		64,793,993		133,115,011
1/12/2016		56,418,885		12,100,676		64,955,383		133,474,944
1/19/2016		56,518,960		12,198,677		65,116,447		133,834,084
1/25/2016	10	56,589,165	10	12,271,107	14	65,262,840	34	134,123,112
2/2/2016	10	56,655,224	10	12,331,951	16	65,328,006	36	134,315,181
2/9/2016		56,739,279		12,414,029		65,459,258		134,612,566
2/16/2016		56,842,778		12,514,488		65,616,425		134,973,691
2/23/2016		56,944,500		12,612,545		65,769,213		135,326,258
3/1/2016		57,047,009		12,711,325		65,918,804		135,677,138
3/7/2016	10	57,136,099	10	12,797,105	15	66,045,719	34	135,978,923
3/8/2016		57,149,528		12,810,294		66,064,906		136,024,728
3/15/2016		57,210,988		12,840,158		66,107,942		136,159,088
3/22/2016		57,305,381		12,933,843		66,236,491		136,475,715
3/29/2016		57,393,292		13,021,008		66,355,922		136,770,222
4/12/2016		57,508,545		13,136,592		66,511,987	0	137,157,124
4/14/2016	10	57,546,160	11	13,186,109	14	66,608,745	35	137,341,014
4/19/2016		57,616,288		13,244,513		66,655,734		137,516,535
4/26/2016		57,715,544		13,341,378		66,785,760		137,842,682
5/3/2016		57,814,947		13,437,499		66,914,847		138,167,293
5/10/2016		57,866,003		13,487,668		66,980,308		138,333,979
5/12/2016	9	57,898,186	10	13,519,539	14	67,020,241	33	138,437,966
5/17/2016		57,954,533		13,588,202		67,119,668		138,662,403
5/24/2016		58,042,352		13,674,969		67,242,482		138,959,803
5/31/2016		58,080,126		13,712,517		67,292,057		139,084,700
6/7/2016	11	58,178,073	10	13,825,812	14	67,416,881	34	139,420,766
6/14/2016		58,224,485		13,854,351		67,483,662		139,562,498
6/21/2016		58,311,614		13,939,918		67,597,319		139,848,851

Table 1 Groundwater Treatment System Pumping Volumes  
February 2008 through December 2024  
Periodic Review Report 2024  
Brewster Village Well Field - Site 3-40-012

Date	ERTEW5		ERTEW6		ERTEW7		Combined Influent	
	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)
6/28/2016		58,409,984		14,033,048		67,722,788		140,165,820
7/5/2016		58,485,528		14,103,793		67,819,944		140,409,265
7/7/2016	10	58,515,879	10	14,133,724	14	67,860,996	34	140,510,599
7/12/2016		58,587,717		14,203,003		67,956,861		140,747,581
7/19/2016		58,686,705		14,297,728		68,086,733		141,071,166
7/26/2016		58,790,307		14,396,470		68,220,759		141,407,536
8/2/2016		58,885,615		14,488,131		68,345,518		141,719,264
8/4/2016	10	58,917,692	10	14,518,936	13	68,387,412	34	141,824,040
8/9/2016		58,989,758		14,587,664		68,481,960		142,059,382
8/16/2016		59,026,235		14,641,269		68,554,644		142,222,148
8/23/2016		59,026,235		14,684,124		68,615,188		142,325,547
8/30/2016		59,026,235		14,690,407		68,623,508		142,340,150
9/6/2016	0	59,026,235	10	14,785,308	14	68,751,459	24	142,563,002
9/13/2016		59,026,235		14,882,048		68,893,990		142,802,273
9/20/2016		59,026,235		14,973,905		69,029,633		143,029,773
9/27/2016		59,026,235		15,069,534		69,170,802		143,266,571
10/4/2016		59,026,235		15,168,382		69,315,588		143,510,205
10/11/2016		59,026,235		15,235,348		69,415,635		143,677,218
10/14/2016	12	59,026,368	9	15,281,654	15	69,486,074	35	143,794,096
10/18/2016		59,030,912		15,337,032		69,570,587		143,938,531
10/25/2016		59,030,912		15,431,818		69,715,607		144,178,337
11/1/2016	0	59,030,912	10	15,532,296	15	69,867,063	25	144,430,271
11/8/2016		59,030,913		15,593,907		69,959,784		144,584,604
11/15/2016		59,030,913		15,626,372		70,004,525		144,661,810
11/22/2016		59,030,913		15,727,788		70,136,875		144,895,576
11/29/2016		59,030,913		15,771,808		70,194,828		144,997,549
12/5/2016	0	59,030,913	10	15,857,756	14	70,309,195	24	145,197,864
12/6/2016		59,030,913		15,981,326		70,327,300		145,339,539
12/13/2016		59,030,913		15,970,350		70,467,273		145,468,536
12/20/2016		59,030,913		16,071,764		70,613,292		145,715,969
12/27/2016		59,030,913		16,166,301		70,753,281		145,950,495
1/4/2017	0	59,030,913	10	16,203,168	14	70,807,611	24	146,041,692

Table 1 Groundwater Treatment System Pumping Volumes  
February 2008 through December 2024  
Periodic Review Report 2024  
Brewster Village Well Field - Site 3-40-012

Date	ERTEW5		ERTEW6		ERTEW7		Combined Influent	
	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)
1/31/2017	12	59,253,596	10	16,535,644	14	71,266,451	36	147,055,691
3/1/2017	11	59,711,599	11	16,948,744	12	71,766,631	34	148,426,974
4/5/2017	12	60,180,593	11	17,370,445	13	72,222,164	36	149,773,202
4/21/2017	12	60,292,706	11	17,471,158	13	72,348,544	36	150,112,408
5/3/2017	11	60,538,173	10	17,692,003	13	72,627,566	35	150,857,742
6/9/2017	0	61,044,812	0	18,142,210	0	73,222,926	0	152,409,948
7/24/2017	12	61,047,679	10	18,144,839	14	73,226,440	36	152,418,958
8/3/2017	12	61,210,749	11	18,287,644	16	73,430,661	39	152,929,054
9/7/2017	12	61,239,154	11	18,725,524	14	74,120,825	36	154,085,503
10/4/2017	12	61,687,013	11	19,084,783	15	74,670,556	37	155,442,352
10/10/2017		61,782,816		19,161,732		74,786,000		155,730,548
10/17/2017		61,868,360		19,233,716		74,879,572		155,981,648
10/24/2017		61,967,831		19,315,131		74,991,921		156,274,883
10/31/2017		62,083,897		19,410,692		75,125,092		156,619,681
11/6/2017	12	62,153,779	11	19,467,952	13	75,205,259	36	156,826,990
11/14/2017		62,281,459		19,575,770		75,355,414		157,212,643
11/21/2017		62,405,666		19,670,864		75,502,206		157,578,736
11/28/2017		62,521,299		19,755,593		75,639,542		157,916,434
12/5/2017		62,629,195		19,833,187		75,766,158		158,228,540
12/6/2017	12	62,652,093	11	19,849,545	13	75,792,697	36	158,294,335
12/12/2017		62,748,449		19,918,528		75,905,330		158,572,307
12/19/2017	12	62,752,902	10	19,984,598	13	75,988,909		158,726,409
12/26/2017		62,862,906		20,065,989		76,105,830		159,034,725
1/5/2018	11	63,012,690	11	20,173,746	10	76,265,956	32	159,452,392
1/31/2018		63,059,813	10	20,259,526	14	76,398,343	24	159,717,682
2/1/2018	11	63,060,302	10	20,435,162	14	76,625,047	35	160,120,511
3/1/2018	11	63,198,867	11	20,439,379	13	76,859,355	34	160,497,601
4/3/2018	11	63,222,571	10	20,868,887	11	77,338,860	32	161,430,318
5/2/2018	11	63,661,622	11	21,299,282	11	77,827,681	32	162,788,585
6/7/2018	10	63,862,331	11	21,674,045	11	78,211,466	31	163,747,842
6/14/2018	10	63,862,617	12	21,674,275	13	78,211,794	34	163,748,686
7/5/2018	9	63,920,609	11	21,725,877	10	78,281,155	30	163,927,641

Table 1 Groundwater Treatment System Pumping Volumes  
February 2008 through December 2024  
Periodic Review Report 2024  
Brewster Village Well Field - Site 3-40-012

Date	ERTEW5		ERTEW6		ERTEW7		Combined Influent	
	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)
8/15/2018	10	63,921,394	12	21,726,779	5	78,281,592	26	163,929,765
9/8/2018	10	64,051,843	12	21,872,454	8	78,356,305	30	164,280,602
10/23/2018	11	64,060,913	12	22,608,363	6	78,826,203	28	165,495,479
11/9/2018	8	64,294,396	12	22,860,773	10	79,007,152	30	166,162,321
12/6/2018	2	64,523,021	11	23,297,264	10	79,387,062	23	167,207,347
12/31/2018	2	64,599,675	11	23,695,822	10	79,750,845	23	168,046,342
2/8/2019	2	64,716,768	11	24,315,373	11	80,293,684	24	169,325,825
2/25/2019	0	64,716,768	11	24,583,010	11	80,525,508	22	169,825,286
3/6/2019	6	64,816,917	12	24,689,524	11	80,632,656	29	170,139,097
4/5/2019	6	65,011,943	12	25,072,397	11	81,084,422	29	171,168,762
5/1/2019	6	65,313,086	12	25,420,103	11	81,550,458	29	172,283,647
6/5/2019	8	65,708,232	12	25,840,733	11	82,139,663	31	173,688,628
7/9/2019	6	66,048,906	12	26,180,369	11	82,721,666	29	174,950,941
7/25/2019	5	66,200,149	12	26,334,949	8	82,721,670	25	175,256,768
8/12/2019	5	66,324,089	12	26,505,600	11	82,924,231	28	175,753,920
9/6/2019	5	66,369,365	12	26,564,494	9	82,992,150	26	175,926,009
10/4/2019	7	66,638,515	12	26,834,605	10	83,398,446	28	176,871,566
11/8/2019	6	66,922,476	12	27,113,427	12	83,788,099	30	177,824,002
12/9/2019	7	67,268,199	11	27,490,400	11	84,358,039	29	179,116,638
1/3/2020	8	67,508,668	11	27,758,152	11	84,727,635	30	179,994,455
2/10/2020	0	67,709,509	12	27,986,933	12	85,083,752	24	180,780,194
3/3/2020	7	67,926,654	12	28,258,451	13	85,430,390	32	181,615,495
4/2/2020	7	68,244,848	13	28,609,225	12	85,978,265	32	182,832,338
5/7/2020	7	68,358,581	12	28,736,544	13	86,168,075	32	183,263,200
6/4/2020	7	68,653,346	12	29,047,760	13	86,659,905	33	184,361,011
7/9/2020	7	68,714,830	12	29,106,356	12	86,764,871	32	184,586,057
8/12/2020	8	69,013,335	13	29,376,139	0	86,858,470	22	185,247,944
9/10/2020	6	69,354,006	13	29,682,054	0	86,858,470	19	185,894,530

Table 1 Groundwater Treatment System Pumping Volumes  
February 2008 through December 2024  
Periodic Review Report 2024  
Brewster Village Well Field - Site 3-40-012

Date	ERTEW5		ERTEW6		ERTEW7		Combined Influent	
	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)
10/16/2020	6	69,584,313	12	29,836,211	7	86,858,572	26	186,279,096
11/20/2020	6	69,691,810	0	29,836,211	12	86,984,082	18	186,512,103
12/2/2020	8	69,824,103	15	29,851,445	13	87,147,716	36	186,823,264
1/5/2021	7	70,053,780	15	30,269,849	13	87,749,897	35	188,073,526
2/8/2021	0	70,068,565	13	30,673,778	13	88,316,841	26	189,059,184
3/3/2021	8	70,224,714	12	30,948,467	13	88,748,184	33	189,921,365
4/8/2021	10	70,224,896	11	31,473,046	21	89,351,431	42	191,049,373
5/5/2021	6	70,548,556	9	31,840,687	21	90,164,267	35	192,553,510
6/2/2021	4	70,736,669	8	32,183,922	20	90,995,647	33	193,916,238
7/6/2021	5	70,767,908	13	32,246,621	18	91,152,369	37	194,166,898
8/20/2021	6	-	15	-	19	-	40	-
9/2/2021	6	70,849,052	15	32,641,415	19	92,482,917	40	195,973,384
10/6/2021	5	70,961,083	16	32,762,660	19	92,866,007	40	196,589,750
11/8/2021	6	71,140,754	16	32,911,203	19	93,424,058	41	197,476,015
12/13/2021	7	71,470,793	16	33,146,908	20	94,416,016	42	199,033,717
1/3/2022	6	71,564,562	16	33,274,156	20	94,690,149	42	199,528,867
2/10/2022	7	71,781,239	15	33,431,775	19	95,038,900	41	399,780,781
3/11/2022	17	71,792,059	17	33,445,530	20	95,782,414	53	201,020,003
4/6/2022	7	71,792,069	17	33,537,550	-	96,203,135	-	201,532,754
5/12/2022	7	71,792,100	17	33,538,550	19	96,203,305	43	201,533,955
6/1/2022	7	-	18	-	19	-	44	-
7/15/2022	-	71,792,623	19	33,684,481	19	96,203,779	-	201,680,883
8/3/2022	-	-	-	-	-	-	-	-
9/13/2022	-	-	17	-17	-	-42	-	-
10/28/2022	-	-	-	-	-	-	-	-
11/28/2022	-	-	-	-	-	-	-	-
12/22/2022	-	-	-	-	-	-	-	-
1/15/2023	-	-	-	-	-	-	-	-
2/15/2023	-	-	-	-	-	-	-	-
3/15/2023	-	-	-	-	-	-	-	-
4/26/2023	0	71,792,623	17	35,209,001	20	98,932,795	37	205,934,419
5/22/2023	22	71,883,239	16	35,554,934	19	99,916,134	57	207,354,307
6/9/2023	17	72,024,778	6	35,618,744	20	100,116,751	42	207,760,273

Table 1 Groundwater Treatment System Pumping Volumes  
February 2008 through December 2024  
Periodic Review Report 2024  
Brewster Village Well Field - Site 3-40-012

Date	ERTEW5		ERTEW6		ERTEW7		Combined Influent	
	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)	Flow Rate (gpm)	Cumulative Flow (gal)
6/22/2023	-	72,270,192	16	35,722,593	19	100,465,834	35	208,458,619
7/27/2023	18	72,466,820	6	36,010,045	18	101,313,547	41	209,790,412
8/30/2023	0	72,986,061	5	36,251,290	17	102,114,662	22	211,352,013
9/21/2023	15	73,160,406	5	36,390,069	17	102,578,309	36	212,128,784
10/10/2023	19	73,546,243	5	36,508,807	17	102,966,277	41	213,021,327
11/14/2023	16	74,357,655	5	36,744,998	16	103,729,456	38	214,832,109
12/20/2023	16	74,799,386	5	36,969,641	18	104,474,164	39	216,243,191
2/5/2024	16	74,939,979	5	37,302,566	19	105,656,199	41	217,898,744
3/11/2024	16	74,982,648	5	37,568,726	19	106,608,829	41	219,160,203
4/18/2024	17	75,063,573	5	37,843,506	18	107,564,559	40	220,471,638
5/13/2024	17	75,114,578	5	38,023,998	17	108,186,363	39	221,324,939
6/3/2024	17	75,152,644	5	38,168,115	16	108,663,972	38	221,984,731
7/19/2024	17	75,399,215	5	38,479,052	15	109,640,132	37	223,518,399
8/21/2024	18	75,545,480	5	38,699,854	15	110,319,623	37	224,564,957
9/19/2024	17	75,622,931	5	38,895,815	16	110,950,914	38	225,469,660
10/15/2024	18	75,668,693	5	39,063,458	16	111,552,558	39	226,284,709
11/18/2024	18	75,729,614	5	39,264,423	16	112,270,682	39	227,264,719
12/20/2024	17	75,797,808	5	39,491,159	9	112,698,481	31	227,987,448
Notes:								
	Date of flowmeter totalizer reset. Total pumping volumes calculated by summing new totalizer readings plus cumulative volume through January 3, 2022.							
-	No reading collected because pump or entire system was shutdown at time of inspection.							
	Pinwheel flowmeters replaced with magmeter flowmeters, all flowmeter totalizers reset. Total pumping volumes calculated by summing new totalizer readings plus cumulative volume through July 15, 2022.							
	Calculated average flowrate for the month, using totalizer data. EW-7 flowmeter stopped reporting in December 2024, but the totalizer is still reporting.							

Table 2A - Groundwater Treatment System Analytical Results ERTEW5  
 March 2008 - December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	10	Q	10	Q	10	Q	10	Q
3/31/2008	160		10		1600		19	
4/30/2008	130		11		1600		27	
5/28/2008	120		8		420		15	
6/20/2008	110		8		760		9	
7/25/2008	41		8		2000		2	
8/29/2008	97		4		1800		19	
9/30/2008	67		3		1500		11	
10/30/2008	< 200		4		3000		9	
12/22/2008	41		2	J	1100	E	11	
1/22/2009	42		2	J	1300	E	7	J
2/25/2009	73		3	J	1400	ED	12	
3/31/2009	50		7	J	4100	E	2	J
5/1/2009	37		2	J	660	D	8	
5/29/2009	29		2	J	840	E	4	J
6/30/2009	35		2	J	1100	E	5	J
7/29/2009	32		2	J	1600	D	3	J
8/25/2009	34		2	J	610	D	3	J
9/24/2009	42		< 5		470		< 5	
10/27/2009	46		< 5		460		< 5	
11/23/2009	44		< 5		550		< 5	
12/22/2009	59		< 5		510		< 5	
1/28/2010	64		< 10		580		< 10	
2/23/2010	58		< 10		530		< 10	
3/31/2010	62		< 10		550		< 10	
4/20/2010	71		< 10		640		< 10	
5/26/2010	80		< 10		1100		< 10	
6/23/2010	48		< 10		450		< 10	
7/28/2010	49		< 10		410		< 10	
8/31/2010	64		< 10		420		< 10	
9/29/2010	47		< 10		400		< 10	
10/28/2010	45		< 10		420		< 10	
11/30/2010	140		< 10		610		< 10	
12/28/2010	380		19		100		<10	
1/25/2011	310		15		530		70	
2/24/2011	340		29		1300		12	
3/29/2011	27		< 10		570		< 10	
4/28/2011	24		< 10		660		< 10	
5/25/2011	20		< 10		580		< 10	
6/30/2011	18		< 10		670		< 10	
7/28/2011	15		< 10		570		< 10	
8/30/2011	14		< 10		580		< 10	
9/30/2011	10		< 10		530		< 10	
12/14/2011	< 10		< 10		550		< 10	

Table 2A - Groundwater Treatment System Analytical Results ERTEW5  
 March 2008 - December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	10	Q	10	Q	10	Q	10	Q
1/11/2012	< 10		< 10		550		< 10	
2/10/2012	< 10		< 10		550		< 10	
3/13/2012	< 10		< 10		580		< 10	
4/10/2012	< 10		< 10		450		< 10	
5/10/2012	11		< 10		400		< 10	
6/5/2012	16		< 10		380		< 10	
8/1/2012	22		< 10		430		< 10	
8/23/2012	25		< 10		410		< 10	
9/27/2012	35		< 10		500		< 10	
12/4/2012	20		< 10		410		< 10	
1/16/2013	36		< 10		530		< 10	
2/7/2013	42		< 10		510		< 10	
3/13/2013	39		< 10		560		< 10	
4/10/2013	NS		NS		NS		NS	
4/30/2013	NS		NS		NS		NS	
6/6/2013	39		5.4		640		12	
7/11/2013	28		<5		590		<5	
8/20/2013	27		<5		610		6.5	
9/12/2013	29		<5		550		<5	
10/10/2013	28		<5		550		9	
11/15/2013	17		<5		420		<5	
12/11/2013	14		<5		500		5.6	
12/31/2013	16		<5		450		5.8	
2/18/2014	19		<5		670		<5	
3/13/2014	16		<5		500		<5	
4/9/2014	26		<5		580		6.2	
5/8/2014	35		<5		610		<5	
6/3/2014	56		<5		600		8.8	
7/9/2014	21		<5		780		<5	
8/6/2014	14		<5		830		<5	
9/4/2014	9.2		<5		840		<5	
10/1/2014	24		<5		510		7.3	
11/6/2014	27		<5		420		<5	
12/3/2014	18		6.6		760		<5	
1/7/2015	27		<5		550		<5	
3/2/2015	22		5.6		770		<5	
4/10/2015	21		<5		700		5.1	
5/7/2015	22		<5		470		<5	
6/3/2015	23		<5		680		<5	
7/9/2015	21		<5		690		<5	
8/12/2015	18		<5		640		<5	
9/1/2015	14		<5		610		<5	
10/14/2015	2.8		<1		74		<1	
11/10/2015	17		<5		930		<5	
12/1/2015	21		<10		810		<10	

Table 2A - Groundwater Treatment System Analytical Results ERTEW5  
 March 2008 - December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	10	Q	10	Q	10	Q	10	Q
1/4/2016	29		<10		1100		<10	
2/2/2016	17		<10		660		<10	
3/7/2016	2.6		<1.0		86		<1.0	
4/14/2016	20		13		50		1.6	
5/12/2016	23		<10		910		<10	
6/7/2016	20		<10		860		<10	
7/7/2016	13		<10		860		<10	
8/4/2016	11		<10		750		<10	
9/6/2016	NS		NS		NS		NS	
11/1/2016	NS		NS		NS		NS	
12/5/2016	NS		NS		NS		NS	
1/4/2017	NS		NS		NS		NS	
1/31/2017	<10		<10		760		<10	
3/1/2017	16		<10		530		<10	
4/5/2017	29		<10		980		<10	
5/3/2017	13		<10		650		<10	
7/25/2017	<10		<10		860		<10	
8/3/2017	13		<10		850		<10	
9/7/2017	15		<10		980		<10	
10/4/2017	22		<10		570		<10	
11/6/2017	20		<10		670		<10	
12/6/2017	19		<10		380		<10	
1/5/2018	19		<10		520		<10	
2/1/2018	16		<10		590		<10	
4/3/2018	18		<10		610		<10	
5/2/2018	22		<10		550		<10	
6/7/2018	11		<10		270		<10	
7/5/2018	36		25		1400		<10	
8/15/2018	12		<10		640		<10	
9/5/2018	<10		19		960		<10	
10/23/2018	28		6.3		750		7.9	
12/6/2018	43		12		1400		<10	
12/31/2018	65		19		1300		12	
2/8/2019	8.8		1.7		86		<1.0	
3/6/2019	10		5.3		600		<1.0	
4/5/2019	40		5.2		700		20	S
5/1/2019	31		<1.0		780		12	
6/5/2019	26		<1.0		650		12	
7/9/2019	34		4.2		740		14	
8/12/2019	44		5.3		650		13	
9/6/2019	33		16		1500		<1.0	
10/4/2019	34		<1.0		910		16	
11/8/2019	98		20		240		<1.0	
12/11/2019	27		<10		570		10	

Table 2A - Groundwater Treatment System Analytical Results ERTEW5

March 2008 - December 2024

Periodic Review Report 2024

Brewster Village Well Field - Site 3-40-012

SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	10	Q	10	Q	10	Q	10	Q
SPDES Discharge Criteria (µg/L)	10	Q	10	Q	10	Q	10	Q
1/3/2020	35		<10		770		<10	
2/10/2020	40		7	J	990		<10	
3/3/2020	33		3.4	J	890		17	
4/2/2020	28		3.2	J	900		16	
5/7/2020	32		14		1200		5.2	J
6/4/2020	30		4.4	J	870		15	S
SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	5	Q	5	Q	0.7	Q	2	Q
SPDES Discharge Criteria (µg/L)	5	Q	5	Q	0.7	Q	2	Q
7/9/2020	9.6	J	6.9	J	720		<10	
8/12/2020	46		10		1700	E	9.2	
9/10/2020	35		3.5	J	840		14	
10/20/2020	36		5.6	J	850		13	
11/5/2020	34		10		970		<10	
12/2/2020	5.6		0.8	J	83		2	
1/5/2021	11		<10		170		<10	
2/8/2021	NS		NS		NS		NS	
3/3/2021	26		<10	S	770		16	
4/8/2021	<10		<10		4200		<10	S
5/5/2021	<10		<10		810		<10	
6/2/2021	<10		<10		890		<10	
7/6/2021	18		<10		1000		<10	
8/20/2021	43		<10		560		27	
9/2/2021	<10		30	S+	570		<10	
10/6/2021	36		<10		1100		17	
11/8/2021	29		12		780		<10	
12/13/2021	42		<10		880		13	
1/3/2022	28		12		1100		<10	
2/10/2022	26		<10		780		<10	
3/11/2022	30		10		880		11	
4/6/2022	16		<10		420		<10	
5/12/2022	14		<5.0		320		<5.0	
6/1/2022	13		<5.0		310		<5.0	
7/15/2022	26		17		940		<5.0	
8/3/2022	NS		NS		NS		NS	
9/13/2022	NS		NS		NS		NS	
10/28/2022	NS		NS		NS		NS	
11/28/2022	NS		NS		NS		NS	
12/22/2022	NS		NS		NS		NS	

Table 2A - Groundwater Treatment System Analytical Results ERTEW5  
 March 2008 - December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	5	Q	5	Q	0.7	Q	2	Q
1/15/2023	NS		NS		NS		NS	
2/15/2023	NS		NS		NS		NS	
3/15/2023	NS		NS		NS		NS	
4/26/2023	NS		NS		NS		NS	
5/22/2023	48		12		940		31	
6/9/2023	39		6.2		580		24	
6/22/2023	40		8		480		24	
7/27/2023	44		<5		600		29	
8/30/2023	NS		NS		NS		NS	
9/21/2023	25		<5		410		17	
10/10/2023	<5.0		<5		400		<5	
11/14/2023	8		<5		240		<5	
12/20/2023	NS		NS		NS		NS	
2/5/2024	13.4		4.15	J	979		3.50	J
3/11/2024	14.8		<10		1240		<10	
4/18/2024	14.8		2.83	J	863		7.01	J
5/13/2024	7.90		2.12	J	650		3.75	J
6/3/2024	4.6		1.26	J	321		1.72	J
7/19/2024	12.7	D	2.65	DJ	601	D	9.5	D
8/21/2024	15.4		2.74	J	472		8.33	
9/19/2024	16.5		3.91	J	694		10.2	
10/15/2024	17.0		2.55	J	502		7.46	
11/18/2024	24.9		6.59		747		6.48	
12/20/2024	14.6		4.64	J	768		5.55	

**Legend**

- SPDES - State Pollutant Discharge Elimination System
- µg/L - microgram per liter
- Q - qualifier
- J - analyte detected below quantitation limit
- B - analyte detected in blank
- D - sample diluted
- E - above quantitation range - Estimated Value
- S - LCS Spike recovery is below acceptable limits
- S<sup>+</sup> - LCS Spike recover is above acceptable limits
- NS - Not Sampled

**Notes**

Shaded cells represent values that exceed the NYSDEC SPDES Discharge Quality Criteria

Table 2B - Groundwater Treatment System Analytical Results ERTEW6  
 March 2008 - December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	10	Q	10	Q	10	Q	10	Q
3/31/2008	190		12		1500		21	
4/30/2008	780		37		180		230	
5/28/2008	320		18		140		79	
6/20/2008	470		47		180		130	
7/25/2008	1500		35		170		270	
8/29/2008	1200		42		280		190	
9/30/2008	630		12		57		110	
10/30/2008	1100		< 100		43		140	
12/22/2008	880	ED	30		180		100	
1/22/2009	710	E	25		140		110	
2/25/2009	1300	ED	36		99		130	
3/31/2009	1100	E	30		110		190	
5/1/2009	320	D	8	J	25		76	
5/29/2009	280	D	2	J	14		49	
6/30/2009	340	E	< 10		19	B	85	
7/29/2009	390	D	< 10		11		52	
8/25/2009	520	D	4	J	21		68	
9/24/2009	290		< 5		20		59	
10/27/2009	280		< 5		10		53	
11/23/2009	600		9.7		89		< 5	
12/22/2009	410		14		120		62	
1/28/2010	270		9.1		45		48	
2/23/2010	69		1.9		24		6.5	
3/31/2010	200		6.5		88		13	
4/20/2010	200		7.7		100		14	
5/26/2010	880		11		45		95	
6/23/2010	290		15		110		32	
7/28/2010	250		12		63		33	
8/31/2010	230		< 5		120		38	
9/29/2010	280		< 5		42		45	
10/28/2010	320		11		47		47	
11/30/2010	330		13		140		48	
12/28/2010	410		25		150		17	
1/25/2011	280		12		570		60	
2/24/2011	320		12		1400		< 10	
3/29/2011	570		76		320		32	
4/28/2011	630		100		450		54	
5/25/2011	360		40		110		49	
6/30/2011	320		17		55		49	
7/28/2011	210		12		38		27	
8/30/2011	350		11		37		74	
9/30/2011	380		18		55		76	
12/14/2011	360		16		41		18	

Table 2B - Groundwater Treatment System Analytical Results ERTEW6  
 March 2008 - December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	10	Q	10	Q	10	Q	10	Q
1/11/2012	350		14		34		25	
2/10/2012	310		10		30		38	
3/29/2012	280		< 10		29		36	
4/10/2012	260		< 10		23		34	
5/10/2012	180		< 10		21		33	
6/5/2012	190		< 5		10		38	
8/1/2012	230		< 5		13		54	
8/23/2012	170		< 5		8.5		55	
9/27/2012	170		< 5		12		65	
12/4/2012	130		< 5		10		79	
1/16/2013	120		<5		47		75	
2/7/2013	NS		NS		NS		NS	
3/13/2013	NS		NS		NS		NS	
4/10/2013	NS		NS		NS		NS	
4/30/2013	NS		NS		NS		NS	
6/6/2013	NS		NS		NS		NS	
7/11/2013	NS		NS		NS		NS	
8/20/2013	NS		NS		NS		NS	
9/12/2013	28		<5		530		<5	
10/10/2013	<1		<1		<1		<1	
11/15/2013	NS		NS		NS		NS	
12/11/2013	NS		NS		NS		NS	
12/31/2013	NS		NS		NS		NS	
2/18/2014	NS		NS		NS		NS	
3/13/2014	NS		NS		NS		NS	
4/9/2014	NS		NS		NS		NS	
5/8/2014	4.2		1		32		<1	
6/3/2014	15		1.1		43		<1	
7/9/2014	13		2.3		240		<1	
8/6/2014	20		3.1		450		<2	
9/4/2014	8.1		<5		250		<5	
10/1/2014	10		1.8		62		<1	
11/6/2014	7.6		6.4		98		<1	
12/3/2014	NS		NS		NS		NS	
1/7/2015	NS		NS		NS		NS	
3/2/2015	NS		NS		NS		NS	
4/10/2015	1		3.2		49		<1	
5/7/2015	4		<1		11		<1	
6/3/2015	6.3		<1		17		<1	
7/9/2015	9.2		1.7		62		<1	
8/12/2015	8.5		5.9		64		1.8	
9/1/2015	NS		NS		NS		NS	
10/14/2015	19		5.5		170		<1	
11/10/2015	94		25		680		<5	
12/1/2015	<5		<5		200		<5	

Table 2B - Groundwater Treatment System Analytical Results ERTEW6  
 March 2008 - December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	10	Q	10	Q	10	Q	10	Q
1/4/2016	1.8		1.2		79		<1.0	
2/2/2016	6.6		1.3		100		<1.0	
3/7/2016	5.3		<1.0		49		<1.0	
4/14/2016	5.6		1.5		37		<1.0	
5/12/2016	4.6		1.3		49		<1.0	
6/7/2016	4.7		1.2		67		<1.0	
7/7/2016	6.6		1.4		110		<1.0	
8/4/2016	6.4		1.1		97		<1.0	
9/6/2016	6.6		1.4		160		<1.0	S-
11/1/2016	5.3	S+	1.6	S+	250	S+M-E	<1.0	
12/5/2016	<5.0		<5.0		550		<5.0	
1/4/2017	<5.0		<5.0		530		<5.0	
1/31/2017	5.8		<5.0		140		<5.0	
3/1/2017	4.8		<1.0		36		<1.0	
4/5/2017	<1.0		1.3		22		<1.0	
5/3/2017	4.8		1.7		22		<1.0	
7/25/2017	<1.0		2.9		42		<1.0	
8/3/2017	8.8		2		41		1.6	
9/7/2017	6		1.4		120		<1.0	
10/4/2017	5.1		<1.0		100		<1.0	
11/6/2017	3.9		1.2		85			
12/6/2017	4.8		<1.0		85	S	<1.0	
1/5/2018	4.1		1		62		<1.0	
2/1/2018	<1		1.5		24		<1.0	
4/3/2018	4.4		<1		30		<1.0	
5/2/2018	4.2		<1		19		<1.0	
6/7/2018	6		<1		17		<1.0	
7/5/2018	<1.0		2.2		35		<1.0	
8/15/2018	<1.0		4.5		64		<1.0	
9/5/2018	1.6		1.7		25		<1.0	
10/23/2018	6.6		2.7		43		<1.0	
12/6/2018	5.4		1.8		90		<1.0	
12/31/2018	7.9		1.1		52		<1.0	
2/8/2019	7.6		2.6		92		<1.0	
3/6/2019	3.7		1.5		36		<1.0	
4/5/2019	1.6		<1.0		36		<1.0	
5/1/2019	4.4		1.1		70		<1.0	
6/5/2019	3.4		<1.0		66		<1.0	
7/9/2019	1.8		1.1		110		<1.0	
8/12/2019	8.9		2		240		<1.0	
9/6/2019	3.6		<1.0		36		<1.0	
10/4/2019	6.6		<1.0		310		<1.0	
11/8/2019	6.6		<1.0		110		<1.0	
12/11/2019	<5.0		<5.0		220		<5.0	

Table 2B - Groundwater Treatment System Analytical Results ERTEW6  
 March 2008 - December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
SPDES Discharge Criteria (µg/L)	10	Q	10	Q	10	Q	10	Q
1/3/2020	4.9	J	<5.0		150		<5.0	
2/10/2020	<1.0		1	J	16		<1.0	
3/3/2020	2		1.1		62		0.4	J
4/2/2020	7.9		0.9	J	140		1.8	
5/7/2020	0.6	J	1.7		25		<1.0	
6/4/2020	14		3.2		140		2.6	S
SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
SPDES Discharge Criteria (µg/L)	5	Q	5	Q	0.7	Q	2	Q
7/9/2020	40		4.6		31		0.2	J
8/12/2020	4		1.4		18		<1.0	
9/10/2020	13		3		42		1	
10/20/2020	4.7		2.5		27		<1.0	
11/5/2020	54		3.9		25		<1.0	
12/2/2020	52		2.8		25		<1.0	
1/5/2021	16		2.7		240	E	2.1	
2/8/2021	21		3.2		380		<2.0	S
3/3/2021	7.9		<2.0	S	170		<2.0	
4/8/2021	12		<2.0		240		<2.0	
5/5/2021	6.9		<2.0		190		<2.0	
6/2/2021	6.1		<2.0		380		<2.0	
7/6/2021	2.6		2.5		37		<5.0	
8/20/2021	12		<5.0		740		<5.0	
9/2/2021	<5.0		<5.0		150		<5.0	
10/6/2021	<5.0		<5.0		680		<5.0	
11/8/2021	30		9.4		130		<5.0	
12/13/2021	12		<5.0		230		<5.0	
1/3/2022	<5.0		<5.0		59		<5.0	
2/10/2022	5.1		<5.0		290		<5.0	
3/11/2022	<10		<10		1900		<10	
4/6/2022	3		1.2		49		<1.0	
5/12/2022	5.9		<1.0		16		<1.0	
6/1/2022	3.4		<1.0		27		<1.0	
7/15/2022	<1.0		2		120		<1.0	
8/3/2022	5.7		2.2		43		<1.0	
9/13/2022	<5.0		<5.0		400		<5.0	
10/28/2022	NS		NS		NS		NS	
11/28/2022	NS		NS		NS		NS	
12/22/2022	NS		NS		NS		NS	

Table 2B - Groundwater Treatment System Analytical Results ERTEW6  
 March 2008 - December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	5	Q	5	Q	0.7	Q	2	Q
1/15/2023	NS		NS		NS		NS	
2/15/2023	NS		NS		NS		NS	
3/15/2023	NS		NS		NS		NS	
4/26/2023	15		<5.0		550		7.5	
5/22/2023	13		<5.0		140		7.8	
6/9/2023	3.7		<1.0		19		<1.0	
6/22/2023	<10		<10		61		<10	
7/27/2023	3.4		<1.0		10		<1.0	
8/30/2023	3.8		1.1		150		<1.0	
9/21/2023	2.6		<1.0		30		<1.0	
10/10/2023	<1.0		<1.0		4.5		<1.0	
11/14/2023	1.4		<1.0		3.5		<1.0	
12/20/2023	NS		NS		NS		NS	
2/5/2024	4.68		0.990	J	43.2		1.10	
3/11/2024	5.23	D	<2.50		234	D	<2.50	
4/18/2024	7.07		0.844	J	167		1.22	J
5/13/2024	7.36		0.912	J	170		0.712	J
6/3/2024	5.32		1.10	J	310		<0.4	
7/19/2024	2.70		1.15	J	359		<0.5	
8/21/2024	2.19	J	1.20	J	438		<0.5	
9/19/2024	3.36		1.18	J	468		<0.5	
10/15/2024	2.65		1.05	J	259		<0.5	
11/18/2024	1.77	DJ	1.69	DJ	402	D	<1.0	
12/20/2024	6.11		2.75		185		<0.4	

**Legend**

- SPDES - State Pollutant Discharge Elimination System
- µg/L - microgram per liter
- Q - qualifier
- J - analyte detected below quantitation limit
- B - analyte detected in blank
- D - sample diluted
- E - above quantitation range - Estimated Value
- S - LCS Spike recovery is below acceptable limits
- S<sup>+</sup> - LCS Spike recover is above acceptable limits
- NS - Not Sampled

**Notes**

Shaded cells represent values that exceed the NYSDEC SPDES Discharge Quality Criteria

Table 2C Groundwater Treatment System Analytical Results ERTEW7

March 2008 - December 2024

Periodic Review Report 2024

Brewster Village Well Field - Site 3-40-012

SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	10	Q	10	Q	10	Q	10	Q
3/31/2008	10		6		48		10	
4/30/2008	9		6		49		2	
5/28/2008	8		4		49		10	
6/20/2008	8		5		50		10	
7/25/2008	9		3		37		10	
8/29/2008	11		5		44		1	
9/30/2008	13		7		53		2	
10/30/2008	16		8		57		< 10	
12/22/2008	11		6	J	45		1	J
1/22/2009	9	J	6	J	38		< 10	
2/25/2009	6	J	4	J	34		< 10	
3/31/2009	5	J	3	J	31		< 10	
5/1/2009	NS		NS		NS		NS	
5/29/2009	23		5	J	470	E	< 10	
6/30/2009	9	J	5	J	57	B	< 10	
7/29/2009	7	J	4	J	45		< 10	
8/25/2009	10	J	5	J	52		< 10	
9/24/2009	16		5.9		46		< 1	
10/27/2009	18		6.4		49		< 1	
11/23/2009	16		7.3		41		< 1	
12/22/2009	19		12		40		< 1	
1/28/2010	13		6.4		40		< 1	
2/23/2010	13		5.1		34		< 1	
3/31/2010	11		5.7		39		< 1	
4/20/2010	10		5.1		39		< 1	
5/26/2010	10		5.4		34		< 1	
6/23/2010	13		4.7		42		< 1	
7/28/2010	22		5.7		58		< 1	
8/31/2010	29		6.1		66		2	
9/29/2010	42		9.1		73		< 1	
10/28/2010	40		10		57		< 1	
11/30/2010	36		9.9		56		< 1	
12/28/2010	37		9.7		53		< 1	
1/25/2011	36		10		56		1.2	
2/24/2011	38		11		68		< 1	
3/29/2011	15		8.8		42		< 1	
4/28/2011	6.8		2.8		22		< 1	
5/25/2011	7		5.6		36		< 1	
6/30/2011	7.1		5.8		37		< 1	
7/28/2011	5		3.1		28		< 1	
8/30/2011	11		6.3		40		< 1	
9/30/2011	8.5		5.5		30		< 1	
12/14/2011	8.2		5.7		30		< 1	

Table 2C Groundwater Treatment System Analytical Results ERTEW7

March 2008 - December 2024

Periodic Review Report 2024

Brewster Village Well Field - Site 3-40-012

SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	10	Q	10	Q	10	Q	10	Q
1/11/2012	7.3		4.9		27		< 1	
2/10/2012	6.6		3.5		25		< 1	
3/29/2012	6		2.6		23		< 1	
4/10/2012	6.8		2.9		24		< 1	
5/10/2012	7.2		2.8		22		< 1	
6/5/2012	7.5		2.6		27		< 1	
8/1/2012	17		4.9		49		< 1	
8/23/2012	19		5.2		47		< 1	
9/27/2012	28		6.6		57		< 1	
12/4/2012	27		7.9		64		2	
1/16/2013	27		9.1		77		2	
2/7/2013	21		9.3		53		<1	
3/13/2013	20		7.5		50		<1	
4/10/2013	20		7.4		64		2	
4/30/2013	25		6.9		64		<5	
6/6/2013	<1		7.3		55		1.8	
7/11/2013	16		8.4		45		1.7	
8/20/2013	27		10		<1		3.1	
9/12/2013	33		11		74		<1	
10/10/2013	40		13		87		4.9	
11/15/2013	16		6.4		18		<1	
12/11/2013	6.7		2.7		15		<1	
12/31/2013	17		<1		43		2.9	
2/18/2014	22		10		52		<1	
3/13/2014	25		8.5		49		1.9	
4/9/2014	24		9.5		48		2.2	
5/8/2014	17		8.9		38		1.3	
6/3/2014	34		9.5		50		<1	
7/9/2014	27		9.3		63		1.9	
8/6/2014	46		13		79		4.2	
9/4/2014	47		14		75		<1	
10/1/2014	47		13		62		3.2	
11/6/2014	43		11		53		2.9	
12/3/2014	17		7		25		<1	
1/7/2015	29		10		39		4.3	
3/2/2015	12		7.2		34		<1	
4/10/2015	14		9.5		41		1.4	
5/7/2015	14		7.6		25		1.2	
6/3/2015	16		7.5		56		<1	
7/9/2015	18		9.4		54		<1	
8/12/2015	15		7.2		42		<1	
9/1/2015	18		6.9		43		1.6	
10/14/2015	26		8.6		63		1.1	
11/10/2015	28		11		69		2	
12/1/2015	34		14		56		2.1	

Table 2C Groundwater Treatment System Analytical Results ERTEW7

March 2008 - December 2024

Periodic Review Report 2024

Brewster Village Well Field - Site 3-40-012

SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	10	Q	10	Q	10	Q	10	Q
1/4/2016	22		11		43		<1.0	
2/2/2016	29		11		52		1.7	
3/7/2016	22		11		46		1.4	
4/14/2016	19		<10		760		<10	
5/12/2016	17		11		51		<1.0	
6/7/2016	15		7		24		<1.0	
7/7/2016	19		9.9		59		2.4	
8/4/2016	25		8.6		59		2	
9/6/2016	24		7.9		61		2.1	S-
11/1/2016	44		14		66		3.5	
12/5/2016	34		13		59		<1.0	
1/4/2017	20		8.7		45		1.0	
1/31/2017	26		12		46		2.6	
3/1/2017	19		10		38		<1.0	
4/5/2017	8.6		7.1		28		<1.0	
5/3/2017	12		9.1		36		<1.0	
7/25/2017	1.7		1.4		17		<1.0	
8/3/2017	9.2		5.8		33		<1.0	
9/7/2017	17		9.6		63		2.8	
10/4/2017	23		6.8		52		1.3	
11/6/2017	18		9.3		48		<1.0	
12/6/2017	26		7.2		45	S	<1.0	
1/5/2018	25		8		40		<1	
2/1/2018	8.2		5.1		16		<1	
4/3/2018	14		8.6		33		<1	
5/2/2018	14		9.6		35		<1	
6/7/2018	12		5.5		19		<1	
7/5/2018	5.4		4.3		17		<1	
8/15/2018	1.4		1.6		8.1		<1	
9/5/2018	4.1		1.8		9.6		<1	
10/23/2018	8.2		12		36		<1	
12/6/2018	9.2		10		37		<1	
12/31/2018	10		6.8		34		<1	
2/8/2019	6		7.4		25		<1.0	
3/6/2019	6.3		5.1		22		<1.0	
4/5/2019	7.6		4.3		19		<1.0	
5/1/2019	7		4.5		23		<1.0	
6/5/2019	6.9		4.3		25		<1.0	
7/9/2019	NS		NS		NS		NS	
8/12/2019	12		6.6		42		<1.0	
9/6/2019	7.8		5.2		25		<1.0	
10/4/2019	10		4.5		44		<1.0	
11/8/2019	10		7		29		<1.0	
12/11/2019	11		6.5		40		<1.0	

Table 2C Groundwater Treatment System Analytical Results ERTEW7

March 2008 - December 2024

Periodic Review Report 2024

Brewster Village Well Field - Site 3-40-012

SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
SPDES Discharge Criteria (µg/L)	10	Q	10	Q	10	Q	10	Q
1/3/2020	14		6.5		38		<1.0	
2/10/2020	6.1		4		19		0.1	J
3/3/2020	12		6.9		35		<1.0	
4/2/2020	12		6.5		35		0.7	J
5/7/2020	6.2		3.8		19		<1.0	
6/4/2020	12		7.6		34		0.4	J
SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
SPDES Discharge Criteria (µg/L)	5	Q	5	Q	0.7	Q	2	Q
7/9/2020	5.8		2.1		15		<1.0	
8/12/2020	NS		NS		NS		NS	
9/10/2020	NS		NS		NS		NS	
10/20/2020	18		11		210		2.3	
11/5/2020	11		5.6		30		<2.0	
12/2/2020	12		9.7		29		0.3	S
1/5/2021	11		6.6		25		<1.0	
2/8/2021	9.6		6.9		28		<1.0	
3/3/2021	9.9		2.8		26		<1.0	
4/8/2021	7.8		5.1		26		<1.0	
5/5/2021	10		4		28		<1.0	
6/2/2021	9.8		3.5		28		<1.0	
7/6/2021	2.7		1.8		14		<1.0	
8/20/2021	13		3.6		30		1.6	
9/2/2021	14	S+	5.4		22		<1.0	
10/6/2021	8.4		5.6		24		<1.0	
11/8/2021	17		6.1		48		<1.0	
12/13/2021	13		6.6		28		<1.0	
1/3/2022	7.9		5.9		22		<1.0	
2/10/2022	9.2		4.1		18		<1.0	
3/11/2022	7.1		3.1		39		<1.0	
4/6/2022	6.1		6.5		20		<1.0	
5/12/2022	2.4		<1.0		4.6		<1.0	
6/1/2022	2.2		<1.0		5.1		<1.0	
7/15/2022	3.1		1.6		11		<1.0	
8/3/2022	4.1		1.7		9.4		<1.0	
9/13/2022	46		1.2		3.6		<1.0	
10/28/2022	NS		NS		NS		NS	
11/28/2022	NS		NS		NS		NS	
12/22/2022	NS		NS		NS		NS	

Table 2C Groundwater Treatment System Analytical Results ERTEW7

March 2008 - December 2024

Periodic Review Report 2024

Brewster Village Well Field - Site 3-40-012

SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	5	Q	5	Q	0.7	Q	2	Q
1/15/2023	NS		NS		NS		NS	
2/15/2023	NS		NS		NS		NS	
3/15/2023	NS		NS		NS		NS	
4/26/2023	6.2		3		13		1.3	
5/22/2023	4.6		3.4		16		<1.0	
6/9/2023	3.7		3.1		15		<1.0	
6/22/2023	6.4		2.7		18		<1.0	
7/27/2023	6.5		3.6		24		<1.0	
8/30/2023	7.8		2.9		23		<1.0	
9/21/2023	8.5		4		26		<1.0	
10/10/2023	4		3.9		19		<1.0	
11/14/2023	4.8		2.6		12		<1.0	
12/20/2023	NS		NS		NS		NS	
2/5/2024	5.02		3.36		14.2		<0.2	
3/11/2024	4.90		<1.0		15.3		<1.0	
4/18/2024	5.99		2.84		17.2		<0.2	
5/13/2024	6.54		2.29		16.0		<0.2	
6/3/2024	5.93		2.51		19.8		<0.2	
7/19/2024	9.44		3.22		31.2		<0.2	
8/21/2024	11.00		3.46		33.4		<0.2	
9/19/2024	13.9		3.58		34.4		0.842	J
10/15/2024	13.1		3.88		25.6		0.575	J
11/18/2024	11.4		4.06		18.1		<0.2	
12/20/2024	7.15	D	2.87	D	212	D	0.608	DJ

**Legend**

SPDES - State Pollutant Discharge Elimination System

µg/L - microgram per liter

Q - qualifier

J - analyte detected below quantitation limit

B - analyte detected in blank

D - sample diluted

E - above quantitation range - Estimated Value

S - LCS Spike recovery is below acceptable limits

S<sup>+</sup> - LCS Spike recover is above acceptable limits

NS - Not Sampled

**Notes**

Shaded cells represent values that exceed the NYSDEC SPDES Discharge Quality Criteria

Table 2D Groundwater Treatment System Analytical Results Combined Influent

March 2008 - December 2024

Periodic Review Report 2024

Brewster Village Well Field - Site 3-40-012

SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	10	Q	10	Q	10	Q	10	Q
3/31/2008	110		9		880		15	
4/30/2008	72		9		780		14	
5/28/2008	160		10		240		13	
6/20/2008	190		17		390		33	
7/25/2008	480		17		820		81	
8/29/2008	110		7		670		26	
9/30/2008	65		4		570		11	
10/30/2008	98		5		1200		12	
12/22/2008	45		5	J	1000	ED	11	
1/22/2009	52		4	J	830	E	11	
2/25/2009	60		4	J	910	E	11	
3/31/2009	64		6	J	3000	E	3	J
5/1/2009	110		4	J	510	D	12	
5/29/2009	23				470	E	< 10	
6/30/2009	27		3	J	630	E	4	J
7/29/2009	21		2	J	710	D	2	J
8/25/2009	45		3	J	410	D	5	J
9/24/2009	34		< 5		270		< 5	
10/27/2009	43		< 5		310		< 5	
11/23/2009	83		5.7		410		< 5	
12/22/2009	98		6.8		410		7.1	
1/28/2010	60		5.7		310		< 5	
2/23/2010	36		< 5		280		< 5	
3/31/2010	44		5.2		260		< 5	
4/20/2010	47		5.9		310		< 5	
5/26/2010	100		6.9		510		6.8	
6/23/2010	51		5.9		270		< 5	
7/28/2010	45		5.5		230		< 5	
8/31/2010	50		5.8		250		9.3	
9/29/2010	68		7.6		230		< 5	
10/28/2010	60		7.5		250		< 5	
11/30/2010	72		5.7		360		< 5	
12/28/2010	85		9.8		64		< 5	
1/25/2011	72		10		140		10	
2/24/2011	66		9.5		230		< 5	
3/29/2011	54		9.4		340		< 5	
4/28/2011	42		7.7		330		< 5	
5/25/2011	66		11		310		6.8	
6/30/2011	58		6.1		300		7.5	
7/28/2011	43		< 5		260		< 5	
8/30/2011	60		5		250		12	

Table 2D Groundwater Treatment System Analytical Results Combined Influent

March 2008 - December 2024

Periodic Review Report 2024

Brewster Village Well Field - Site 3-40-012

SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	10	Q	10	Q	10	Q	10	Q
9/30/2011	54		6.3		230		9.9	
12/14/2011	44		5.1		230		< 5	
1/11/2012	38		< 5		240		< 5	
2/10/2012	29		< 5		230		< 5	
3/29/2012	27		< 5		200		< 5	
4/10/2012	15		< 5		210		< 5	
5/10/2012	22		< 5		200		< 5	
6/5/2012	16		< 5		190		< 5	
8/1/2012	25		< 5		210		< 5	
8/23/2012	16		< 5		160		< 5	
9/27/2012	28		< 5		220		< 5	
12/4/2012	23		< 5		250		< 5	
1/16/2013	35		7		270		<5	
2/7/2013	30		7.5		250		<5	
3/13/2013	28		6.9		260		<5	
4/30/2013	NS		NS		NS		NS	
6/6/2013	24		7.6		320		4.8	
7/11/2013	21		8.8		280		<5	
8/20/2013	26		7.5		280		<5	
9/12/2013	30		8.5		200		<2	
10/10/2013	19		2.2		370		4.9	
11/15/2013	6.3		3.6		160		<2	
12/11/2013	14		7		440		<5	
12/31/2013	16		5.4		200		<5	
2/18/2014	21		8.2		260		<2	
3/13/2014	22		6.8		200		2.1	
4/9/2014	24		6.6		210		3.5	
5/8/2014	16		4.4		130		2.1	
6/3/2014	36		6.4		120		2.6	
7/9/2014	32		6.7		210		2.2	
8/6/2014	32		8.4		250		2.5	
9/4/2014	27		8.2		190		<2	
10/1/2014	29		6.3		200		3.5	
11/6/2014	33		6.8		190		2.4	
12/3/2014	18		7.4		290		<2	
1/7/2015	30		7.8		220		4.9	
3/2/2015	16		7		280		<2	
4/10/2015	16		7.5		220		2.2	
5/7/2015	13		5.3		130		<2	
6/3/2015	14		4		200		<2	
7/9/2015	19		6.1		250		<2	

Table 2D Groundwater Treatment System Analytical Results Combined Influent

March 2008 - December 2024

Periodic Review Report 2024

Brewster Village Well Field - Site 3-40-012

SPDES Contaminant SPDES Discharge Criteria (µg/L)	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	10	Q	10	Q	10	Q	10	Q
8/12/2015	17		7.2		230		<2	
9/1/2015	17		5.8		200		<2	
10/14/2015	24		7.4		260		<2	
11/10/2015	46		6.9		230		84	
12/1/2015	21		7.9		270		2.6	
1/4/2016	23		8.1		250		<2.0	
2/2/2016	20		6.9		220		<2.0	
3/7/2016	8.6		2.7		110		<1.0	
4/14/2016	16		6.7		210		<2.0	
5/12/2016	13		5.7		260		<2.0	
6/7/2016	14		6.5		260		<2.0	
7/7/2016	15		5.4		280		2	
8/4/2016	15		4.5		220		<2.0	
9/6/2016	18		5.6		100		<2.0	S-
11/1/2016	30		8.9		240		2.3	
12/5/2016	23		8.2		240		2.1	
1/4/2017	15		6.7		270		<2.0	
1/31/2017	18		6.78		230		2.7	
3/1/2017	12		4.8		180		<2.0	
4/5/2017	11		5.1		280		<2.0	
5/3/2017	10		5.3		170		<2.0	
7/25/2017	3.2		3.9		210		<2.0	
8/3/2017	10		3.8		220		<2.0	
9/7/2017	13		4.8		270		3.0	
10/4/2017	20		3.9		200		<2.0	
11/6/2017	15		5.1		210		<2.0	
12/6/2017	18		5.6		210		<2.0	
1/5/2018	17		5.2		170		<2.0	
2/1/2018	7.7		4.7		140		<2.0	
3/1/2018	9.7		4.4		150		2.4	
4/3/2018	12		5		160		2.1	
5/2/2018	11		3.9		150		<2.0	
6/7/2018	7.6		3.7		150		1.8	
7/5/2018	10		8.6		320		<2.0	
8/15/2018	<5.0	S	<5.0		200		<5.0	S
9/5/2018	11		<5.0		180		<5.0	
10/23/2018	15		7.2		260		<5.0	S
12/6/2018	10	C+	5.6		140		<2.0	S
12/31/2018	11		4.5		110		<2.0	

Table 2D Groundwater Treatment System Analytical Results Combined Influent

March 2008 - December 2024

Periodic Review Report 2024

Brewster Village Well Field - Site 3-40-012

SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	10	Q	10	Q	10	Q	10	Q
2/8/2019	8		4.8		57		<2.0	
3/6/2019	4		5.3		180		<2.0	
4/5/2019	11		2.7		140		3.3	S
5/1/2019	7.9		<2.0		160		<2.0	
6/5/2019	8.3		2.6		140		<2.0	
7/9/2019	32		3.9		720		13	
8/12/2019	14		4.4		250		2.4	
9/6/2019	6.9		4		160		3.2	
10/4/2019	14		3		340		3.2	
11/8/2019	11		7.5		36		<2.0	
12/11/2019	13		4.2		220		2.1	
1/3/2020	12		3.6		150		<2.0	
2/10/2020	8.1		3.1		150		<2.0	
3/3/2020	16		4.9		210		<2.0	
4/2/2020	13		4.2		190		3.4	
5/7/2020	7.5		4.6		170		0.7	J
6/4/2020	14		4.9		190		3.4	S
SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	5	Q	5	Q	0.7	Q	2	
7/9/2020	300		2.7		69		0.8	J
8/12/2020	49		11		2100	E	8.4	J
9/10/2020	16		<25		250		3	J
10/20/2020	16		7.1		250		3.6	
11/5/2020	11		3.2	J	280		<25	
12/2/2020	110		7.6		32		0.5	J
1/5/2021	10		5.6		79		<5	
2/8/2021	15		5.3		180		<5	
3/3/2021	12		<5	S	190		<5	
4/8/2021	18		10		600		<5	
5/5/2021	12		<5		160		<5	
6/2/2021	10		<5		170		<5	
7/6/2021	<5		<5		150		<5	
8/20/2021	17		<5		100		5.1	
9/2/2021	14	S+	5.7		110		<5	
10/6/2021	<5		<5		210		<5	
11/8/2021	16		5.9		91		<5	
12/13/2021	18		6.5		140		<5	
1/3/2022	9.4		5		130		<5	
2/10/2022	8.2		<5		290		<5	
3/11/2022	7.9		<5		35		<5	

Table 2D Groundwater Treatment System Analytical Results Combined Influent

March 2008 - December 2024

Periodic Review Report 2024

Brewster Village Well Field - Site 3-40-012

SPDES Contaminant SPDES Discharge Criteria (µg/L)	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	5	Q	5	Q	0.7	Q	2	
4/6/2022	3.2		2.1		30		<1.0	
5/12/2022	5.2		<1.0		49		<1.0	
6/1/2022	4.2		<1.0		38		<1.0	
7/15/2022	2.7		1.9		130		<1.0	
8/3/2022	6.7		2.2		33		<1.0	
9/13/2022	3		2.6		210	E	<1.0	
10/28/2022	NS		NS		NS		NS	
11/28/2022	NS		NS		NS		NS	
12/22/2022	NS		NS		NS		NS	
1/15/2023	NS		NS		NS		NS	
2/15/2023	NS		NS		NS		NS	
3/15/2023	NS		NS		NS		NS	
4/26/2023	5.3		3.1		130		<2.0	
5/22/2023	19		5.4		340		11	
6/9/2023	20		4.1		260	E	11	
6/22/2023	49		6.2		140		36	
7/27/2023	22		<5		260		13	
8/30/2023	6.2		2.4		48		<1.0	
9/21/2023	16		3.4		190		8.6	
10/10/2023	7.4		<2.0		180		<2.0	
11/14/2023	5.7		<2.0		100		<2.0	
12/20/2023	NS		NS		NS		NS	
2/5/2024	4.98		2.76		19.5		0.27	J
3/11/2024	8.05	D	2.85	DJ	428	D	1.5	DJ
4/18/2024	8.68		2.96	J	355		2.39	J
5/13/2024	8.27		2.17	J	274		1.56	J
6/3/2024	7.70		2.45	J	353		1.63	J
7/19/2024	8.63		2.28	J	271		3.13	
8/21/2024	9.55		2.59		288		2.74	
9/19/2024	14.2		2.79		247		4.01	
10/15/2024	12.8		3.28		270		0.973	J
11/18/2024	13.9		5.75		384		0.980	J
12/20/2024	12.4	D	2.74	DJ	390	D	3.7	DJ

**Legend**

SPDES - State Pollutant Discharge Elimination System

µg/L - microgram per liter

Q - qualifier

J - analyte detected below quantitation limit

B - analyte detected in blank

D - sample diluted

E - above quantitation range - Estimated Value

S - LCS Spike recovery is below acceptable limits

S<sup>+</sup> - LCS Spike recover is above acceptable limits

NS - Not Sampled

**Notes**

Shaded cells represent values that exceed the NYSDEC SPDES Discharge Quality Criteria

Table 2E Groundwater Treatment System Analytical Results Combined Effluent

March 2008 - December 2024

Periodic Review Report 2024

Brewster Village Well Field - Site 3-40-012

SPDES Contaminant SPDES Discharge Criteria (µg/L)	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	10	Q	10	Q	10	Q	10	Q
3/31/2008	< 1		< 1		< 1		< 1	
4/30/2008	< 1		< 1		< 1		< 1	
5/28/2008	0.1		< 1		< 1		< 2	
6/20/2008	7		0.3		5		0.2	
7/25/2008	< 1		< 1		< 1		< 2	
8/29/2008	4		0.2		4		0.2	
9/30/2008	< 1		< 1		< 1		< 2	
10/30/2008	< 1		< 1		< 1		< 1	
12/22/2008	<1		<1		<1		<1	
1/22/2009	< 1		< 1		< 1		< 1	
2/25/2009	< 1		< 1		< 1		< 1	
3/31/2009	< 1		< 1		< 1		< 1	
5/1/2009	< 1		< 1		< 1		< 1	
5/29/2009	2		0.2	J	9		0.1	J
6/30/2009	0.2	J	< 1		0.6	J	< 1	
7/29/2009	0.2	J	< 1		0.4	J	< 1	
8/25/2009	0.2	J	< 1		0.3	J	< 1	
9/24/2009	< 1		< 1		< 1		< 1	
10/27/2009	< 1		< 1		< 1		< 1	
11/23/2009	< 1		< 1		< 1		< 1	
12/22/2009	< 1		< 1		< 1		< 1	
1/28/2010	< 1		< 1		< 1		< 1	
2/23/2010	< 1		< 1		< 1		< 1	
3/31/2010	< 1		< 1		< 1		< 1	
4/20/2010	< 1		< 1		< 1		< 1	
5/26/2010	4		< 1		7.5		< 1	
6/23/2010	< 1		< 1		< 1		< 1	
7/28/2010	< 1		< 1		< 1		< 1	
8/31/2010	< 1		< 1		< 1		< 1	
9/29/2010	< 1		< 1		< 1		< 1	
10/28/2010	< 1		< 1		< 1		< 1	
11/30/2010	< 1		< 1		< 1		< 1	
12/28/2010	< 1		< 1		< 1		< 1	
1/25/2011	< 1		< 1		< 1		< 1	
2/24/2011	< 1		< 1		< 1		< 1	
3/29/2011	< 1		< 1		< 1		< 1	
4/28/2011	< 1		< 1		< 1		< 1	
5/25/2011	< 1		< 1		< 1		< 1	
6/30/2011	< 1		< 1		1.1		< 1	
7/28/2011	< 1		< 1		< 1		< 1	

Table 2E Groundwater Treatment System Analytical Results Combined Effluent

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Brewster Village Well Field - Site 3-40-012

SPDES Contaminant SPDES Discharge Criteria (µg/L)	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	10	Q	10	Q	10	Q	10	Q
8/30/2011	< 1		< 1		< 1		< 1	
9/30/2011	< 1		< 1		< 1		< 1	
12/14/2011	< 1		< 1		< 1		< 1	
1/11/2012	< 1		< 1		< 1		< 1	
2/10/2012	< 1		< 1		< 1		< 1	
3/29/2012	< 1		< 1		< 1		< 1	
4/10/2012	< 1		< 1		< 1		< 1	
5/10/2012	< 1		< 1		< 1		< 1	
6/5/2012	< 1		< 1		< 1		< 1	
8/1/2012	< 1		< 1		1.3		< 1	
8/23/2012	< 1		< 1		< 1		< 1	
9/27/2012	< 1		< 1		< 1		< 1	
12/4/2012	< 1		< 1		< 1		< 1	
1/16/2013	< 1		< 1		< 1		< 1	
2/7/2013	< 1		< 1		< 1		< 1	
3/13/2013	< 1		< 1		< 1		< 1	
4/10/2013	< 1		< 1		< 1		< 1	
4/30/2013	< 1		< 1		< 1		< 1	
6/6/2013	< 1		< 1		< 1		< 1	
7/11/2013	< 1		< 1		< 1		< 1	
8/20/2013	< 1		< 1		< 1		< 1	
9/12/2013	< 1		< 1		2		< 1	
10/10/2013	< 1		< 1		< 1		< 1	
11/15/2013	< 1		< 1		< 1		< 1	
12/11/2013	< 1		< 1		< 1		< 1	
12/31/2013	< 1		< 1		< 1		< 1	
2/18/2014	< 1		< 1		< 1		< 1	
3/13/2014	< 1		< 1		< 1		< 1	
4/9/2014	< 1		< 1		< 1		< 1	
5/8/2014	< 1		< 1		< 1		< 1	
6/3/2014	< 1		< 1		< 1		< 1	
7/9/2014	< 1		< 1		< 1		< 1	
8/6/2014	< 1		< 1		< 1		< 1	
9/4/2014	< 1		< 1		< 1		< 1	
10/1/2014	< 1		< 1		< 1		< 1	
11/6/2014	< 1		< 1		< 1		< 1	
12/3/2014	< 1		< 1		< 1		< 1	
1/7/2015	< 1		< 1		< 1		< 1	
3/2/2015	< 1		< 1		< 1		< 1	
4/10/2015	< 1		< 1		< 1		< 1	
5/7/2015	< 1		< 1		< 1		< 1	

Table 2E Groundwater Treatment System Analytical Results Combined Effluent

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Brewster Village Well Field - Site 3-40-012

SPDES Contaminant SPDES Discharge Criteria (µg/L)	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	10	Q	10	Q	10	Q	10	Q
6/3/2015	<1		<1		<1		<1	
7/9/2015	<1		<1		<1		<1	
8/12/2015	<1		<1		<1		<1	
9/1/2015	<1		<1		<1		<1	
10/14/2015	<1		<1		<1		<1	
11/10/2015	<1		<1		<1		<1	
12/1/2015	<1		<1		<1		<1	
1/4/2016	<1		<1		<1		<1	
2/2/2016	<1		<1		<1		<1	
3/7/2016	<1		<1		<1		<1	
4/14/2016	<1		<1		<1		<1	
5/12/2016	<1.0		<1.0		<1.0		<1.0	
6/7/2016	<1.0		<1.0		<1.0		<1.0	
7/7/2016	<1.0		<1.0		<1.0		<1.0	
8/4/2016	<1.0		<1.0		<1.0		<1.0	
9/6/2016	<1.0		<1.0		<1.0		<1.0	S-
11/1/2016	<1.0		<1.0		<1.0		<1.0	
12/5/2016	<1.0		<1.0		<1.0		<1.0	
1/4/2017	<1.0		<1.0		<1.0		<1.0	
1/31/2017	<1.0		<1.0		<1.0		<1.0	
3/1/2017	<1.0		<1.0		<1.0		<1.0	
4/5/2017	<1.0		<1.0		<1.0		<1.0	
5/3/2017	<1.0		<1.0		<1.0		<1.0	
7/25/2017	<1.0		<1.0		<1.0		<1.0	
8/3/2017	<1.0		<1.0		<1.0		<1.0	
9/7/2017	<1.0		<1.0		<1.0		<1.0	
10/4/2017	<1.0		<1.0		<1.0		<1.0	
11/6/2017	<1.0		<1.0		<1.0		<1.0	
12/6/2017	<1.0		<1.0		<1.0		<1.0	
1/5/2018	<1.0		<1.0		<1.0		<1.0	
2/1/2018	<1.0		<1.0		<1.0		<1.0	
3/1/2018	<1.0		<1.0		1.2		<1.0	
4/3/2018	<1.0		<1.0		<1.0		<1.0	
5/2/2018	<1.0		<1.0		<1.0		<1.0	
6/7/2018	<1.0		<1.0		<1.0		<1.0	
7/5/2018	<1.0		<1.0		<1.0		<1.0	
8/15/2018	<1.0		<1.0		<1.0		<1.0	
9/5/2018	<1.0		<1.0		<1.0		<1.0	
10/23/2018	<1.0		<1.0		<1.0		<1.0	
12/6/2018	<1.0		<1.0		<1.0		<1.0	
12/31/2018	<1.0		<1.0		<1.0		<1.0	

Table 2E Groundwater Treatment System Analytical Results Combined Effluent

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Brewster Village Well Field - Site 3-40-012

SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	10	Q	10	Q	10	Q	10	Q
12/31/2018	<1.0		<1.0		<1.0		<1.0	
2/8/2019	<1.0		<1.0		<1.0		<1.0	
3/6/2019	<1.0		<1.0		<1.1		<1.0	
4/5/2019	<1.0		<1.0		<1.0		<1.0	
5/1/2019	<1.0		<1.0		<1.0		<1.0	
6/5/2019	<1.0		<1.0		<1.0		<1.0	
7/9/2019	<1.0		<1.0		<1.0		<1.0	
8/12/2019	<1.0		<1.0		<1.0		<1.0	
9/6/2019	<1.0		<1.0		<1.0		<1.0	
10/4/2019	<1.0		<1.0		<1.0		<1.0	
11/8/2019	<1.0		<1.0		<1.0		<1.0	
12/11/2019	<1.0		<1.0		<1.0		<1.0	
1/3/2020	<1.0		<1.0		<1.0		<1.0	
2/10/2020	<1.0		<1.0		<1.0		<1.0	
3/3/2020	<1.0		<1.0		<1.0		<1.0	
4/2/2020	<1.0		<1.0		<1.0		<1.0	
5/7/2020	<1.0		<1.0		<1.0		<1.0	
6/4/2020	<1.0		<1.0		<1.0		<1.0	
SPDES Contaminant	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	5	Q	5	Q	0.7	Q	2	Q
7/9/2020	<1.0		<1.0		<1.0		<1.0	
8/12/2020	<1.0		<1.0		<1.0		<1.0	
9/10/2020	<1.0		<1.0		<1.0		<1.0	
10/20/2020	<1.0		<1.0		<1.0		<1.0	
11/5/2020	<1.0		<1.0		<1.0		<1.0	
12/2/2020	<1.0		<1.0		<1.0		<1.0	
1/5/2021	<1.0		<1.0		<1.0		<1.0	
2/8/2021	<1.0		<1.0		<1.0		<1.0	
3/3/2021	<1.0		<1.0	S	<1.0		<1.0	
4/8/2021	<1.0		<1.0		<1.0		<1.0	
5/5/2021	<1.0		<1.0		<1.0		<1.0	
6/2/2021	<1.0		<1.0		<1.0		<1.0	
7/6/2021	<1.0		<1.0		<1.0		<1.0	
8/20/2021	<1.0		<1.0		<1.0		<1.0	
9/2/2021	<1.0		<1.0		<1.0		<1.0	
10/6/2021	<1.0		<1.0		<1.0		<1.0	
11/8/2021	16		<1.0		5.8		<1.0	
12/13/2021	<1.0		<1.0		<1.0		<1.0	

Table 2E Groundwater Treatment System Analytical Results Combined Effluent

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Brewster Village Well Field - Site 3-40-012

SPDES Contaminant SPDES Discharge Criteria (µg/L)	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
	5	Q	5	Q	0.7	Q	2	Q
1/3/2022	<1.0		<1.0		<1.0		<1.0	
2/10/2022	<1.0		<1.0		<1.0		<1.0	
3/11/2022	<1.0		<1.0		<1.0		<1.0	
4/6/2022	<1.0		<1.0		1.3		<1.0	
5/12/2022	<1.0		<1.0		1.4		<1.0	
6/1/2022	<1.0		<1.0		1.3		<1.0	
7/15/2022	<1.0		<1.0		<1.0		<1.0	
8/3/2022	NS		NS		NS		NS	
9/13/2022	NS		NS		NS		NS	
10/28/2022	NS		NS		NS		NS	
11/28/2022	NS		NS		NS		NS	
12/22/2022	NS		NS		NS		NS	
1/15/2023	NS		NS		NS		NS	
2/15/2023	NS		NS		NS		NS	
3/15/2023	NS		NS		NS		NS	
4/26/2023	<1.0		<1.0		1.3		<1.0	
5/22/2023	<1.0		<1.0		5.5		<1.0	
6/9/2023	<1.0		<1.0		2.8		<1.0	
6/22/2023	<1.0		<1.0		<1.0		<1.0	
7/27/2023	<1.0		<1.0		1.9		<1.0	
8/30/2023	<1.0		<1.0		<1.0		<1.0	
9/21/2023	<1.0		<1.0		<1.0		<1.0	
10/10/2023	<1.0		<1.0		<0.7		<1.0	
11/14/2023	<1.0		<1.0		<0.7		<1.0	
12/20/2023	NS		NS		NS		NS	
2/5/2024	<0.230		<0.200		<0.210		<0.200	
3/11/2024	<1.0		<1.0		<1.0		<1.0	
4/18/2024	<0.230		<0.200		<0.210		<0.200	
5/13/2024	<0.230		<0.200		<0.210		<0.200	
6/3/2024	<0.230		<0.200		<0.210		<0.200	
7/19/2024	<0.230		<0.200		0.340	J	<0.200	
8/21/2024	<0.230		<0.200		0.277	J	<0.200	
9/19/2024	<0.230		<0.200		<0.210		<0.200	
10/15/2024	<0.230		<0.200		<0.210		<0.200	
11/18/2024	<0.230		<0.200		<0.210		<0.200	
12/20/2024	<0.230		<0.200		<0.210		<0.200	

Table 2E Groundwater Treatment System Analytical Results Combined Effluent

March 2008 - December 2024

Periodic Review Report 2024

Brewster Village Well Field - Site 3-40-012

**Legend**

SPDES - State Pollutant Discharge Elimination System

µg/L - microgram per liter

Q - qualifier

J - analyte detected below quantitation limit

B - analyte detected in blank

D - sample diluted

E - above quantitation range - Estimated Value

S - LCS Spike recovery is below acceptable limits

S<sup>+</sup> - LCS Spike recover is above acceptable limits

NS - Not Sampled

**Notes**

Shaded cells represent values that exceed the NYSDEC SPDES Discharge Quality Criteria

Table 3A VOC Removal Summary - ERTEW5  
 March 2008 through December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

Sample Date	Flow (gal)	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
		Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)
3/31/2008	579,623	160	0.77	10	0.05	1,600	7.74	19	0.09
4/30/2008	593,988	130	0.64	11	0.05	1,600	7.93	27	0.13
5/28/2008	324,716	160	0.43	10	0.03	1,600	4.34	19	0.05
6/20/2008	458,613	110	0.42	8	0.03	760	2.91	9	0.03
7/25/2008	276,280	41	0.09	8	0.02	2,000	4.61	2	0.00
8/29/2008	281,460	97	0.23	4	0.01	1,800	4.23	19	0.04
9/30/2008	731,382	67	0.41	3	0.02	1,500	9.15	11	0.07
10/30/2008	1,008,596	0	0.00	4	0.03	3,000	25.25	9	0.08
12/22/2008	969,991	0	0.00	4	0.03	3,000	24.28	9	0.07
1/22/2009	1,048,497	42	0.37	2	0.02	1,300	11.37	7	0.06
2/25/2009	811,980	73	0.49	3	0.02	1,400	9.49	12	0.08
3/31/2009	670,718	50	0.28	7	0.04	4,100	22.95	2	0.01
5/1/2009	597,387	37	0.18	2	0.01	660	3.29	8	0.04
5/29/2009	915,719	29	0.22	2	0.02	840	6.42	4	0.03
6/30/2009	1,136,306	35	0.33	2	0.02	1,100	10.43	5	0.05
7/29/2009	891,655	35	0.26	2	0.01	1,100	8.18	5	0.04
8/25/2009	707,822	35	0.21	2	0.01	1,100	6.50	5	0.03
9/24/2009	1,367,394	42	0.48	0	0.00	470	5.36	0	0.00
10/27/2009	622,632	46	0.24	0	0.00	460	2.39	0	0.00
11/23/2009	871,689	44	0.32	0	0.00	550	4.00	0	0.00
12/22/2009	875,226	59	0.43	0	0.00	510	3.72	0	0.00
1/28/2010	1,105,753	64	0.59	0	0.00	580	5.35	0	0.00
2/23/2010	848,279	58	0.41	0	0.00	530	3.75	0	0.00
3/31/2010	1,013,426	62	0.52	0	0.00	550	4.65	0	0.00
4/20/2010	935,880	71	0.55	0	0.00	640	5.00	0	0.00
5/26/2010	1,073,758	80	0.72	0	0.00	1,100	9.86	0	0.00
6/23/2010	826,683	48	0.33	0	0.00	450	3.10	0	0.00
7/28/2010	1,018,073	49	0.42	0	0.00	410	3.48	0	0.00
8/31/2010	881,923	64	0.47	0	0.00	420	3.09	0	0.00
9/29/2010	592,331	47	0.23	0	0.00	400	1.98	0	0.00
10/28/2010	822,924	45	0.31	0	0.00	420	2.88	0	0.00
11/30/2010	325,072	140	0.38	0	0.00	610	1.65	0	0.00
12/28/2010	185	380	0.00	19	0.00	100	0.00	0	0.00
1/25/2011	36	310	0.00	15	0.00	530	0.00	70	0.00
2/24/2011	20,139	340	0.06	29	0.00	1,300	0.22	12	0.00
3/29/2011	812,315	27	0.18	0	0.00	570	3.86	0	0.00
4/28/2011	807,758	24	0.16	0	0.00	660	4.45	0	0.00
5/25/2011	807,528	20	0.13	0	0.00	580	3.91	0	0.00
6/30/2011	878,561	18	0.13	0	0.00	670	4.91	0	0.00
7/28/2011	648,044	15	0.08	0	0.00	570	3.08	0	0.00
8/30/2011	766,036	15	0.10	0	0.00	580	3.71	0	0.00
9/30/2011	499,652	10	0.04	0	0.00	530	2.21	0	0.00
12/14/2011	1,393,507	0	0.00	0	0.00	550	6.40	0	0.00
1/11/2012	478,182	0	0.00	0	0.00	550	2.19	0	0.00
2/10/2012	523,544	0	0.00	0	0.00	550	2.40	0	0.00
3/13/2012	536,061	0	0.00	0	0.00	580	2.59	0	0.00
4/10/2012	591,184	0	0.00	0	0.00	450	2.22	0	0.00
5/10/2012	644,833	11	0.06	0	0.00	400	2.15	0	0.00
6/5/2012	778,498	16	0.10	0	0.00	380	2.47	0	0.00
8/1/2012	847,260	22	0.16	0	0.00	430	3.04	0	0.00
8/23/2012	350,674	25	0.07	0	0.00	410	1.20	0	0.00
9/27/2012	784,581	35	0.23	0	0.00	500	3.27	0	0.00
12/4/2012	1,907,161	20	0.32	0	0.00	410	6.52	0	0.00
1/16/2013	572,879	36	0.17	0	0.00	530	2.53	0	0.00

Table 3A VOC Removal Summary - ERTEWS  
 March 2008 through December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

Sample Date	Flow (gal)	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
		Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)
2/7/2013	565,670	42	0.20	0	0.00	510	2.41	0	0.00
3/13/2013	614,976	39	0.20	0	0.00	560	2.87	0	0.00
4/10/2013	0	0	0.00	0	0.00	0	0.00	0	0.00
4/30/2013	634,257	0	0.00	0	0.00	0	0.00	0	0.00
6/6/2013	634,257	39	0.21	5	0.03	640	3.39	12	0.06
7/11/2013	528,880	28	0.12	0	0.00	590	2.60	0	0.00
8/20/2013	711,177	27	0.16	0	0.00	610	3.62	7	0.04
9/12/2013	388,189	29	0.09	0	0.00	550	1.78	0	0.00
10/10/2013	652,762	28	0.15	0	0.00	550	3.00	9	0.05
11/15/2013	726,870	17	0.10	0	0.00	420	2.55	0	0.00
12/11/2013	300,797	14	0.04	0	0.00	500	1.25	6	0.01
12/31/2013	391,592	16	0.05	0	0.00	450	1.47	6	0.02
2/18/2014	467,198	19	0.07	0	0.00	670	2.61	0	0.00
3/13/2014	541,555	16	0.07	0	0.00	500	2.26	0	0.00
4/9/2014	159,797	26	0.03	0	0.00	580	0.77	6	0.01
5/8/2014	357,594	35	0.10	0	0.00	610	1.82	0	0.00
6/3/2014	194,182	56	0.09	0	0.00	600	0.97	9	0.01
7/9/2014	213,795	21	0.04	0	0.00	780	1.39	0	0.00
8/6/2014	111,685	14	0.01	0	0.00	830	0.77	0	0.00
9/4/2014	343,961	9	0.03	0	0.00	840	2.41	0	0.00
10/1/2014	321,043	24	0.06	0	0.00	510	1.37	7	0.02
11/6/2014	225,877	27	0.05	0	0.00	420	0.79	0	0.00
12/3/2014	632,376	18	0.09	7	0.03	760	4.01	0	0.00
1/7/2015	980,928	27	0.22	0	0.00	550	4.50	0	0.00
3/2/2015	164,931	22	0.03	6	0.01	770	1.06	0	0.00
4/10/2015	437,398	21	0.08	0	0.00	700	2.55	5	0.02
5/7/2015	503,684	22	0.09	0	0.00	470	1.98	0	0.00
6/3/2015	605,305	23	0.12	0	0.00	680	3.43	0	0.00
7/9/2015	374,280	21	0.07	0	0.00	690	2.15	0	0.00
8/12/2015	168,931	18	0.03	0	0.00	640	0.90	0	0.00
9/1/2015	455,843	14	0.05	0	0.00	610	2.32	0	0.00
10/14/2015	218,267	3	0.01	0	0.00	74	0.13	0	0.00
11/10/2015	285,037	17	0.04	0	0.00	930	2.21	0	0.00
12/1/2015	307,793	21	0.05	0	0.00	810	2.08	0	0.00
1/4/2016	344,269	29	0.08	0	0.00	1,100	3.16	0	0.00
2/2/2016	348,963	17	0.05	0	0.00	660	1.92	0	0.00
3/7/2016	480,875	3	0.01	0	0.00	86	0.35	0	0.00
4/14/2016	410,061	20	0.07	13	0.04	50	0.17	2	0.01
5/12/2016	352,026	23	0.07	0	0.00	910	2.67	0	0.00
6/7/2016	279,887	20	0.05	0	0.00	860	2.01	0	0.00
7/7/2016	337,806	13	0.04	0	0.00	860	2.42	0	0.00
8/4/2016	401,813	11	0.04	0	0.00	750	2.51	0	0.00
9/6/2016	108,543	NS	0.00	NS	0.00	NS	0.00	NS	0.00
11/1/2016	36,477	NS	0.00	NS	0.00	NS	0.00	NS	0.00
12/5/2016	0	NS	0.00	NS	0.00	NS	0.00	NS	0.00
1/4/2017	0	NS	0.00	NS	0.00	NS	0.00	NS	0.00
1/30/2017	222,683	0	0.00	0	0.00	760	1.41	0	0.00
3/1/2017	458,003	16	0.06	0	0.00	530	2.03	0	0.00
4/5/2017	468,994	29	0.11	0	0.00	980	3.84	0	0.00
5/3/2017	112,113	13	0.01	0	0.00	650	0.61	0	0.00
7/24/2017	509,506	0	0.00	0	0.00	860	3.66	0	0.00
8/3/2017	163,070	13	0.02	0	0.00	850	1.16	0	0.00
9/7/2017	28,405	15	0.00	0	0.00	980	0.23	0	0.00
10/4/2017	447,859	22	0.08	0	0.00	570	2.13	0	0.00

Table 3A VOC Removal Summary - ERTEW5  
 March 2008 through December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

Sample Date	Flow (gal)	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
		Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)
11/6/2017	466,766	20	0.08	0	0.00	670	2.61	0	0.00
12/6/2017	498,314	19	0.00	0	0.00	380	1.58	0	0.00
1/5/2018	0	19	0.00	0	0.00	520	0.00	0	0.00
2/1/2018	489	16	0.00	0	0.00	590	0.00	0	0.00
4/3/2018	23,704	18	0.00	0	0.00	610	0.12	0	0.00
5/2/2018	439,051	22	0.07	0	0.00	550	2.02	0	0.00
6/7/2018	200,709	11	0.02	0	0.00	270	0.45	0	0.00
7/5/2018	57,992	36	0.02	25	0.01	1400	0.68	0	0.00
8/15/2018	785	12	0.00	0	0.00	640	0.00	0	0.00
9/5/2018	130,449	0	0.00	19	0.02	960	1.04	0	0.00
10/23/2018	9,070	28	0.00	6.3	0.00	750	0.06	7.9	0.00
12/6/2018	228,625	43	0.08	12	0.02	1400	2.67	0	0.00
12/31/2018	76,654	65	0.04	19	0.01	1300	0.83	12	0.01
2/8/2019	117,093	8.8	0.01	1.7	0.00	86	0.08	0	0.00
3/6/2019	100,149	10	0.01	5.3	0.00	600	0.50	0	0.00
4/5/2019	195,026	40	0.06	5.2	0.01	700	1.14	20	0.03
5/1/2019	301,143	31	0.07	0	0.00	780	1.96	12	0.03
6/5/2019	395,146	26	0.08	0	0.00	650	2.14	12	0.04
7/9/2019	340,674	34	0.09	4.2	0.01	740	2.10	14	0.04
8/12/2019	275,183	44	0.09	5.3	0.01	650	1.49	13	0.03
9/6/2019	45,276	33	0.01	16	0.01	1500	0.57	0	0.00
10/4/2019	269,150	34	0.07	0	0.00	910	2.04	16	0.04
11/8/2019	283,961	98	0.21	20	0.05	240	0.57	0	0.00
12/11/2019	345,723	27	0.07	0	0.00	570	1.64	10	0.03
1/3/2020	240,469	35	0.06	0	0.00	770	1.55	0	0.00
2/10/2020	200,841	40	0.06	7	0.01	990	1.66	0	0.00
3/3/2020	217,145	33	0.06	3.4	0.01	890	1.61	17	0.03
4/2/2020	318,194	28	0.07	3.2	0.01	900	2.39	16	0.04
5/7/2020	113,733	32	0.03	14	0.01	1200	1.14	5.2	0.00
6/4/2020	294,765	30	0.07	4.4	0.01	870	2.14	15	0.04
7/9/2020	61,484	10	0.00	6.9	0.00	720	0.37	0	0.00
8/12/2020	298,505	46	0.11	10	0.02	1700	4.23	9.2	0.02
9/10/2020	340,671	35	0.09	3.5	0.01	840	2.39	14	0.04
10/16/2020	230,307	36	0.06	5.6	0.01	850	1.63	13	0.02
11/20/2020	107,497	34	0.03	10	0.01	970	0.87	0	0.00
12/2/2020	132,293	6	0.01	0.8	0.00	83	0.09	2	0.00
1/5/2021	229,677	11	0.02	0	0.00	170	0.33	0	0.00
2/8/2021	14,785	0	0.00	0	0.00	0	0.00	0	0.00
3/3/2021	156,149	26	0.03	0	0.00	770	1.00	16	0.02
4/8/2021	182	0	0.00	0	0.00	4200	0.01	0	0.00
5/5/2021	323,660	0	0.00	0	0.00	810	2.19	0	0.00
6/2/2021	188,113	0	0.00	0	0.00	890	1.40	0	0.00
7/6/2021	31,239	18	0.00	0	0.00	1000	0.26	0	0.00
8/20/2021	-	43	-	0	-	560	-	27	-
9/2/2021	-	30	-	0	-	570	-	0	-
10/6/2021	112,031	36	0.03	0	0.00	1100	1.03	17	0.02
11/8/2021	179,671	29	0.04	12	0.02	780	1.17	0	0.00
12/13/2021	330,039	0	0.00	0	0.00	880	2.42	13	0.04
1/3/2022	93,769	28	0.02	12	0.01	1100	0.86	0	0.00
2/10/2022	216,677	26	0.04	0	0.00	780	1.41	0	0.00
3/11/2022	10,820	30	0.00	10	0.00	880	0.08	11	0.00
4/6/2022	10	16	0.00	0	0.00	420	0.00	0	0.00
5/12/2022	31	14	0.00	0	0.00	320	0.00	0	0.00
6/1/2022	-	13	-	0	-	310	-	0	-

Table 3A VOC Removal Summary - ERTEW5  
 March 2008 through December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

Sample Date	Flow (gal)	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
		Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)
7/15/2022	523	26	0.00	17	0.00	940	0.00	0	0.00
8/3/2022	-	-	-	-	-	-	-	-	-
9/13/2022	-	-	-	-	-	-	-	-	-
10/28/2022	-	-	-	-	-	-	-	-	-
11/28/2022	-	-	-	-	-	-	-	-	-
12/22/2022	-	-	-	-	-	-	-	-	-
1/15/2023	-	-	-	-	-	-	-	-	-
2/15/2023	-	-	-	-	-	-	-	-	-
3/15/2023	-	-	-	-	-	-	-	-	-
4/26/2023	-	-	-	-	-	-	-	-	-
5/22/2023	85,177	48	0.03	12	0.01	940	0.62	31	0.02
6/9/2023	146,960	39	0.04	6	0.01	580	0.65	24	0.03
6/22/2023	245,414	40	0.08	8	0.02	480	0.91	24	0.05
7/27/2023	191,869	44	0.06	0	0.00	600	0.88	29	0.04
8/30/2023	523,996	0	0.00	0	0.00	0	0.00	0	0.00
9/21/2023	170,549	25	0.03	0	0.00	410	0.54	17	0.02
10/10/2023	389,637	0	0.00	0	0.00	400	1.20	0	0.00
11/14/2023	811,412	8	0.05	0	0.00	240	1.50	0	0.00
12/20/2023	441,731	- <sup>1</sup>	- <sup>1</sup>	- <sup>1</sup>	- <sup>1</sup>	- <sup>1</sup>	- <sup>1</sup>	- <sup>1</sup>	- <sup>1</sup>
2/5/2024	140,593	13	0.01	4	0.00	979	1.06	4	0.00
3/11/2024	42,669	15	0.00	0	0.00	1240	0.41	0	0.00
4/18/2024	80,925	15	0.01	3	0.00	863	0.54	7	0.00
5/13/2024	51,005	8	0.00	2	0.00	650	0.25	4	0.00
6/3/2024	38,066	5	0.00	1	0.00	321	0.09	2	0.00
7/19/2024	246,571	14	0.03	2	0.00	554	1.05	8	0.02
8/21/2024	146,265	15	0.02	3	0.00	472	0.53	8	0.01
9/19/2024	77,451	17	0.01	4	0.00	694	0.41	10	0.01
10/15/2024	45,762	17	0.01	3	0.00	502	0.18	7	0.00
11/18/2024	60,921	25	0.01	7	0.00	747	0.35	6	0.00
12/20/2024	68,194	15	0.01	5	0.00	768	0.40	6	0.00

**Legend**

- Conc. - concentration
- gal - gallon
- lb - pound
- NS - not sampled
- µg/L - micrograms per liter
- No reading or sample collected because pump or entire system was shutdown at time of inspection.

**Notes**

1. Samples were not collected from the GWTS during the December 2023 inspection event due to an impending contract expiration (EOY 2023).

Table 3B VOC Removal Summary - ERTEW6  
 March 2008 - December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

Sample Date	Flow (gal)	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
		Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)
3/31/2008	214,780	190	0.34	12	0.02	1,500	2.69	21	0.04
4/30/2008	88,298	780	0.57	37	0.03	180	0.13	230	0.17
5/28/2008	41,077	190	0.07	12	0.00	1,500	0.51	21	0.01
6/20/2008	72,155	470	0.28	47	0.03	180	0.11	130	0.08
7/25/2008	120,417	1,500	1.51	35	0.04	170	0.17	270	0.27
8/29/2008	70,844	1,200	0.71	42	0.02	280	0.17	190	0.11
9/30/2008	84,622	630	0.44	12	0.01	57	0.04	110	0.08
10/30/2008	40,089	1,100	0.37	0	0.00	43	0.01	140	0.05
12/22/2008	26	1,100	0.00	0	0.00	43	0.00	140	0.00
1/22/2009	0	710	0.00	25	0.00	140	0.00	110	0.00
2/25/2009	3,171	1,300	0.03	36	0.00	99	0.00	130	0.00
3/31/2009	43,321	1,100	0.40	30	0.01	110	0.04	190	0.07
5/1/2009	296,698	320	0.79	8	0.02	25	0.06	76	0.19
5/29/2009	48,715	280	0.11	2	0.00	14	0.01	49	0.02
6/30/2009	60,007	340	0.17	0	0.00	19	0.01	85	0.04
7/29/2009	84,417	340	0.24	0	0.00	19	0.01	85	0.06
8/25/2009	86,303	340	0.24	0	0.00	19	0.01	85	0.06
9/24/2009	161,369	290	0.39	0	0.00	20	0.03	59	0.08
10/27/2009	32,039	280	0.07	0	0.00	10	0.00	53	0.01
11/23/2009	79,924	600	0.40	10	0.01	89	0.06	0	0.00
12/22/2009	89,207	410	0.31	14	0.01	120	0.09	62	0.05
1/28/2010	116,262	270	0.26	9	0.01	45	0.04	48	0.05
2/23/2010	74,481	69	0.04	2	0.00	24	0.01	7	0.00
3/31/2010	73,634	200	0.12	7	0.00	88	0.05	13	0.01
4/20/2010	154,321	200	0.26	8	0.01	100	0.13	14	0.02
5/26/2010	271,712	880	2.00	11	0.02	45	0.10	95	0.22
6/23/2010	76,421	290	0.18	15	0.01	110	0.07	32	0.02
7/28/2010	128,712	250	0.27	12	0.01	63	0.07	33	0.04
8/31/2010	40,755	230	0.08	0	0.00	120	0.04	38	0.01
9/29/2010	0	280	0.00	0	0.00	42	0.00	45	0.00
10/28/2010	117,681	320	0.31	11	0.01	47	0.05	47	0.05
11/30/2010	120,310	330	0.33	13	0.01	140	0.14	48	0.05
12/28/2010	176,691	410	0.60	25	0.04	150	0.22	17	0.03
1/25/2011	151,135	280	0.35	12	0.02	570	0.72	60	0.08
2/24/2011	136,142	320	0.36	12	0.01	1,400	1.59	0	0.00
3/29/2011	147,502	570	0.70	76	0.09	320	0.39	32	0.04
4/28/2011	111,602	630	0.59	100	0.09	450	0.42	54	0.05
5/25/2011	250,533	360	0.75	40	0.08	110	0.23	49	0.10
6/30/2011	349,862	320	0.93	17	0.05	55	0.16	49	0.14
7/28/2011	262,949	210	0.46	12	0.03	38	0.08	27	0.06
8/30/2011	331,252	350	0.97	11	0.03	37	0.10	74	0.20
9/30/2011	277,592	380	0.88	18	0.04	55	0.13	76	0.18
12/14/2011	689,006	360	2.07	16	0.09	41	0.24	18	0.10
1/11/2012	242,833	350	0.71	14	0.03	34	0.07	25	0.05
2/10/2012	222,018	310	0.57	10	0.02	30	0.06	38	0.07
3/13/2012	247,340	280	0.58	0	0.00	29	0.06	36	0.07
4/10/2012	132,450	260	0.29	0	0.00	23	0.03	34	0.04
5/10/2012	117,436	180	0.18	0	0.00	21	0.02	33	0.03
6/5/2012	86,187	190	0.14	0	0.00	10	0.01	38	0.03
8/1/2012	39,377	230	0.08	0	0.00	13	0.00	54	0.02
8/23/2012	6,877	170	0.01	0	0.00	9	0.00	55	0.00
9/27/2012	22	170	0.00	0	0.00	12	0.00	65	0.00
12/4/2012	3,752	130	0.00	0	0.00	10	0.00	79	0.00
1/16/2013	0	120	0.00	0	0.00	47	0.00	75	0.00
2/7/2013	0	0	0.00	0	0.00	0	0.00	0	0.00
3/13/2013	0	0	0.00	0	0.00	0	0.00	0	0.00

Table 3B VOC Removal Summary - ERTEW6  
 March 2008 - December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

Sample Date	Flow (gal)	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
		Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)
4/10/2013	0	0	0.00	0	0.00	0	0.00	0	0.00
4/30/2013	0	0	0.00	0	0.00	0	0.00	0	0.00
6/6/2013	0	0	0.00	0	0.00	0	0.00	0	0.00
7/11/2013	0	0	0.00	0	0.00	0	0.00	0	0.00
8/20/2013	24	0	0.00	0	0.00	0	0.00	0	0.00
9/12/2013	35,112	28	0.01	0	0.00	530	0.16	0	0.00
10/10/2013	40,535	0	0.00	0	0.00	0	0.00	0	0.00
11/15/2013	0	0	0.00	0	0.00	0	0.00	0	0.00
12/11/2013	0	0	0.00	0	0.00	0	0.00	0	0.00
12/31/2013	0	0	0.00	0	0.00	0	0.00	0	0.00
2/18/2014	0	0	0.00	0	0.00	0	0.00	0	0.00
3/13/2014	3,640	0	0.00	0	0.00	0	0.00	0	0.00
4/9/2014	91,854	0	0.00	0	0.00	0	0.00	0	0.00
5/8/2014	544,918	4	0.02	1	0.00	32	0.15	0	0.00
6/3/2014	367,306	15	0.05	1	0.00	43	0.13	0	0.00
7/9/2014	583,100	13	0.06	2	0.01	240	1.17	0	0.00
8/6/2014	506,597	20	0.08	3	0.01	450	1.90	0	0.00
9/4/2014	451,609	8	0.03	0	0.00	250	0.94	0	0.00
10/1/2014	362,606	10	0.03	2	0.01	62	0.19	0	0.00
11/6/2014	4	8	0.00	6	0.00	98	0.00	0	0.00
12/3/2014	28	0	0.00	0	0.00	0	0.00	0	0.00
1/7/2015	173,122	0	0.00	0	0.00	0	0.00	0	0.00
3/2/2015	225	0	0.00	0	0.00	0	0.00	0	0.00
4/10/2015	233,259	1	0.00	3	0.01	49	0.10	0	0.00
5/7/2015	484,952	4	0.02	0	0.00	11	0.04	0	0.00
6/3/2015	583,290	6	0.03	0	0.00	17	0.08	0	0.00
7/9/2015	225	9	0.00	2	0.00	62	0.00	0	0.00
8/12/2015	0	9	0.00	6	0.00	64	0.00	2	0.00
9/1/2015	470	0	0.00	0	0.00	0	0.00	0	0.00
10/14/2015	74	19	0.00	6	0.00	170	0.00	0	0.00
11/10/2015	180,726	94	0.14	25	0.04	680	1.03	0	0.00
12/1/2015	307,856	0	0.00	0	0.00	200	0.51	0	0.00
1/4/2016	344,298	2	0.01	1	0.00	79	0.23	0	0.00
2/2/2016	342,230	7	0.02	1	0.00	100	0.29	0	0.00
3/7/2016	465,154	5	0.02	0	0.00	49	0.19	0	0.00
4/14/2016	389,004	6	0.02	2	0.00	37	0.12	0	0.00
5/12/2016	333,430	5	0.01	1	0.00	49	0.14	0	0.00
6/7/2016	306,273	5	0.01	1	0.00	67	0.17	0	0.00
7/7/2016	307,912	7	0.02	1	0.00	110	0.28	0	0.00
8/4/2016	385,212	6	0.02	1	0.00	97	0.31	0	0.00
9/6/2016	266,372	7	0.01	1	0.00	160	0.36	0	0.00
11/1/2016	294,384	5	0.01	2	0.00	250	0.61	0	0.00
12/5/2016	332,636	0	0.00	0	0.00	550	1.53	0	0.00
1/4/2017	345,412	0	0.00	0	0.00	530	1.53	0	0.00
1/30/2017	332,476	6	0.02	0	0.00	140	0.39	0	0.00
3/1/2017	413,100	5	0.02	0	0.00	36	0.12	0	0.00
4/5/2017	421,701	0	0.00	0	0.00	22	0.08	0	0.00
5/3/2017	321,558	5	0.01	0	0.00	22	0.06	0	0.00
7/24/2017	452,836	0	0.00	0	0.00	42	0.16	0	0.00
8/3/2017	142,805	9	0.01	0	0.00	41	0.05	0	0.00
9/7/2017	437,880	6	0.02	0	0.00	120	0.44	0	0.00
10/4/2017	359,259	5	0.02	0	0.00	100	0.30	0	0.00
11/6/2017	383,169	4	0.01	0	0.00	85	0.27	0	0.00
12/6/2017	381,593	5	0.02	0	0.00	85	0.27	0	0.00
1/5/2018	149,784	4.1	0.01	1	0.00	62	0.08	0	0.00
2/1/2018	489	0	0.00	1.5	0.00	24	0.00	0	0.00

Table 3B VOC Removal Summary - ERTEW6  
 March 2008 - December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

Sample Date	Flow (gal)	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
		Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)
4/3/2018	23,704	4.4	0.00	0	0.00	30	0.01	0	0.00
5/2/2018	439,051	4.2	0.02	0	0.00	19	0.07	0	0.00
6/7/2018	200,709	6	0.01	0	0.00	17	0.03	0	0.00
7/5/2018	57,992	0	0.00	2.2	0.00	35	0.02	0	0.00
8/15/2018	785	0	0.00	4.5	0.00	64	0.00	0	0.00
9/5/2018	130,449	1.6	0.00	1.7	0.00	25	0.03	0	0.00
10/23/2018	9,070	6.6	0.00	2.7	0.00	43	0.00	0	0.00
12/6/2018	436,491	5.4	0.02	1.8	0.01	90	0.33	0	0.00
12/31/2018	398,558	7.9	0.03	1.1	0.00	52	0.17	0	0.00
2/8/2019	619,551	7.6	0.04	2.6	0.01	92	0.48	0	0.00
3/6/2019	374,151	3.7	0.01	1.5	0.00	36	0.11	0	0.00
4/5/2019	382,873	1.6	0.00	0	0.00	36	0.12	0	0.00
5/1/2019	347,706	4.4	0.01	1.1	0.00	70	0.20	0	0.00
6/5/2019	420,630	3.4	0.01	0	0.00	66	0.23	0	0.00
7/9/2019	339,636	1.8	0.00	1.1	0.00	110	0.31	0	0.00
8/12/2019	325,231	8.9	0.02	2	0.01	240	0.65	0	0.00
9/6/2019	58,894	3.6	0.00	0	0.00	36	0.02	0	0.00
10/4/2019	270,111	6.6	0.01	0	0.00	310	0.70	0	0.00
11/8/2019	278,822	6.6	0.01	0	0.00	110	0.26	0	0.00
12/11/2019	376,973	0	0.00	0	0.00	220	0.69	0	0.00
1/3/2020	267,752	5	0.01	0	0.00	150	0.34	0	0.00
2/10/2020	228,781	0	0.00	1	0.00	16	0.03	0	0.00
3/3/2020	271,518	2	0.00	1.1	0.00	62	0.14	0.4	0.00
4/2/2020	350,774	8	0.02	0.9	0.00	140	0.41	1.8	0.01
5/7/2020	127,319	1	0.00	1.7	0.00	25	0.03	0	0.00
6/4/2020	311,216	14	0.03	3.2	0.01	140	0.36	2.6	0.01
7/9/2020	58,596	40	0.02	4.6	0.00	31	0.02	0.2	0.00
8/12/2020	269,783	4	0.01	1.4	0.00	18	0.04	0	0.00
9/10/2020	305,915	13	0.03	3	0.01	42	0.11	1	0.00
10/16/2020	154,157	5	0.01	2.5	0.00	27	0.03	0	0.00
11/20/2020	0	54	0.00	3.9	0.00	25	0.00	0	0.00
12/2/2020	15,234	52	0.01	2.8	0.00	25	0.00	0	0.00
1/5/2021	418,404	16	0.05	2.7	0.01	240	0.84	2.1	0.01
2/8/2021	403,929	21	0.07	3.2	0.01	380	1.28	0	0.00
3/3/2021	274,689	8	0.02	0	0.00	170	0.39	0	0.00
4/8/2021	524,579	12	0.05	0	0.00	240	1.05	0	0.00
5/5/2021	367,641	7	0.02	0	0.00	190	0.58	0	0.00
6/2/2021	343,235	6	0.02	0	0.00	380	1.09	0	0.00
7/6/2021	62,699	18	0.01	0	0.00	1000	0.52	0	0.00
8/20/2021	-	12	-	0	-	740	-	0	-
9/2/2021	-	0	-	0	-	150	-	0	-
10/6/2021	121,245	0	0.00	0	0.00	680	0.69	0	0.00
11/8/2021	148,543	30	0.03	9.4	0.01	130	0.16	0	0.00
12/13/2021	235,705	12	0.02	0	0.00	230	0.45	0	0.00
1/3/2022	127,248	0	0.00	0	0.00	59	0.06	0	0.00
2/10/2022	157,619	5	0.01	0	0.00	290	0.38	0	0.00
3/11/2022	13,755	0	0.00	0	0.00	1900	0.22	0	0.00
4/6/2022	92,020	3	0.00	1.2	0.00	49	0.04	0	0.00
5/12/2022	1,000	6	0.00	0	0.00	16	0.00	0	0.00
6/1/2022	-	3	-	0	-	27	-	0	-
7/15/2022	145,931	0	0.00	2	0.00	120	0.00	0	0.00
8/3/2022	-	6	-	2.2	-	43	-	0	-
9/13/2022	-	0	-	0	-	400	-	0	-
10/28/2022	-	-	-	-	-	-	-	-	-
11/28/2022	-	-	-	-	-	-	-	-	-
12/22/2022	-	-	-	-	-	-	-	-	-

Table 3B VOC Removal Summary - ERTEW6  
 March 2008 - December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

Sample Date	Flow (gal)	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
		Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)
1/15/2023	-	-	-	-	-	-	-	-	-
2/15/2023	-	-	-	-	-	-	-	-	-
3/15/2023	-	-	-	-	-	-	-	-	-
4/26/2023	75,907	15	0.01	0	0.00	550	0.32	8	0.00
5/22/2023	262,372	13	0.03	0	0.00	140	0.28	8	0.02
6/9/2023	65,477	4	0.00	0	0.00	19	0.01	0	0.00
6/22/2023	106,075	0	0.00	0	0.00	61	0.05	0	0.00
7/27/2023	283,582	3	0.01	0	0.00	10	0.02	0	0.00
8/30/2023	241,522	4	0.01	1	0.00	150	0.28	0	0.00
9/21/2023	138,810	3	0.00	0	0.00	30	0.03	0	0.00
10/10/2023	120,074	0	0.00	0	0.00	5	0.00	0	0.00
11/14/2023	236,191	1	0.00	0	0.00	4	0.01	0	0.00
12/20/2023	224,643	- <sup>1</sup>	- <sup>1</sup>	- <sup>1</sup>	- <sup>1</sup>	- <sup>1</sup>	- <sup>1</sup>	- <sup>1</sup>	- <sup>1</sup>
2/5/2024	332,925	5	0.01	1	0.00	43	0.11	1	0.00
3/11/2024	266,160	5	0.01	1	0.00	251	0.51	1	0.00
4/18/2024	274,780	7	0.01	1	0.00	167	0.35	1	0.00
5/13/2024	180,492	7	0.01	1	0.00	170	0.24	1	0.00
6/3/2024	144,117	5	0.01	1	0.00	310	0.34	0	0.00
7/19/2024	310,937	3	0.01	1	0.00	359	0.86	0	0.00
8/21/2024	220,802	2	0.00	1	0.00	438	0.74	0	0.00
9/19/2024	195,961	3	0.01	1	0.00	468	0.70	0	0.00
10/15/2024	167,643	3	0.00	1	0.00	259	0.33	0	0.00
11/18/2024	200,965	2	0.00	2	0.00	414	0.64	0	0.00
12/20/2024	226,736	6	0.01	3	0.00	185	0.32	0	0.00

**Legend**

- Conc. - concentration
- gal - gallon
- lb - pound
- NS - not sampled
- µg/L - micrograms per liter
- No reading or sample collected because pump or entire system was shutdown at time of inspection.

**Notes**

1. Samples were not collected from the GWTS during the December 2023 inspection event due to an impending contract expiration (EOY 2023).

Table 3C VOC Removal Summary - ERTEW7  
 March 2008 - December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

Sample Date	Flow (gal)	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
		Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)
3/31/2008	523,133	10	0.04	6	0.03	48	0.21	10	0.04
4/30/2008	669,402	9	0.05	6	0.03	49	0.27	2	0.01
5/28/2008	343,465	10	0.03	6	0.02	48	0.14	10	0.03
6/20/2008	498,944	8	0.03	5	0.02	50	0.21	10	0.04
7/25/2008	210,579	9	0.02	3	0.01	37	0.07	10	0.02
8/29/2008	474,237	11	0.04	5	0.02	44	0.17	1	0.00
9/30/2008	351,687	13	0.04	7	0.02	53	0.16	2	0.01
10/30/2008	421,215	16	0.06	8	0.03	57	0.20	0	0.00
12/22/2008	467,506	16	0.06	8	0.03	57	0.22	0	0.00
1/22/2009	513,875	9	0.04	6	0.03	38	0.16	0	0.00
2/25/2009	553,073	6	0.03	4	0.02	34	0.16	0	0.00
3/31/2009	627,921	5	0.03	3	0.02	31	0.16	0	0.00
5/1/2009	1,048,679	0	0.00	0	0.00	0	0.00	0	0.00
5/29/2009	512,576	23	0.10	5	0.02	470	2.01	0	0.00
6/30/2009	733,423	9	0.06	5	0.03	57	0.35	0	0.00
7/29/2009	631,007	9	0.05	5	0.03	57	0.30	0	0.00
8/25/2009	481,087	9	0.04	5	0.02	57	0.23	0	0.00
9/24/2009	958,891	16	0.13	6	0.05	46	0.37	0	0.00
10/27/2009	376,775	18	0.06	6	0.02	49	0.15	0	0.00
11/23/2009	437,539	16	0.06	7	0.03	41	0.15	0	0.00
12/22/2009	196,758	19	0.03	12	0.02	40	0.07	0	0.00
1/28/2010	459,098	13	0.05	6	0.02	40	0.15	0	0.00
2/23/2010	760,524	13	0.08	5	0.03	34	0.22	0	0.00
3/31/2010	933,506	11	0.09	6	0.04	39	0.30	0	0.00
4/20/2010	870,639	10	0.07	5	0.04	39	0.28	0	0.00
5/26/2010	1,010,443	10	0.08	5	0.05	34	0.29	0	0.00
6/23/2010	758,651	13	0.08	5	0.03	42	0.27	0	0.00
7/28/2010	911,324	22	0.17	6	0.04	58	0.44	0	0.00
8/31/2010	748,601	29	0.18	6	0.04	66	0.41	2	0.01
9/29/2010	494,633	42	0.17	9	0.04	73	0.30	0	0.00
10/28/2010	626,599	40	0.21	10	0.05	57	0.30	0	0.00
11/30/2010	603,115	36	0.18	10	0.05	56	0.28	0	0.00
12/28/2010	639,789	37	0.20	10	0.05	53	0.28	0	0.00
1/25/2011	578,288	36	0.17	10	0.05	56	0.27	1	0.01
2/24/2011	643,087	38	0.20	11	0.06	68	0.36	0	0.00
3/29/2011	746,989	15	0.09	9	0.05	42	0.26	0	0.00
4/28/2011	376,732	7	0.02	3	0.01	22	0.07	0	0.00
5/25/2011	718,641	7	0.04	6	0.03	36	0.22	0	0.00
6/30/2011	850,126	7	0.05	6	0.04	37	0.26	0	0.00
7/28/2011	619,908	5	0.03	3	0.02	28	0.14	0	0.00
8/30/2011	776,473	11	0.07	6	0.04	40	0.26	0	0.00
9/30/2011	678,161	9	0.05	6	0.03	30	0.17	0	0.00
12/14/2011	1,798,025	8	0.12	6	0.09	30	0.45	0	0.00
1/11/2012	713,076	7	0.04	5	0.03	27	0.16	0	0.00
2/10/2012	749,484	7	0.04	4	0.02	25	0.16	0	0.00
3/13/2012	967,319	6	0.05	3	0.02	23	0.19	0	0.00
4/10/2012	762,754	7	0.04	3	0.02	24	0.15	0	0.00
5/10/2012	772,581	7	0.05	3	0.02	22	0.14	0	0.00
6/5/2012	949,405	8	0.06	3	0.02	27	0.21	0	0.00
8/1/2012	1,137,369	17	0.16	5	0.05	49	0.47	0	0.00
8/23/2012	432,232	19	0.07	5	0.02	47	0.17	0	0.00
9/27/2012	946,824	28	0.22	7	0.05	57	0.45	0	0.00
12/4/2012	2,276,362	27	0.51	8	0.15	64	1.22	2	0.04
1/16/2013	749,695	27	0.17	9	0.06	77	0.48	2	0.01
2/7/2013	764,234	21	0.13	9	0.06	53	0.34	0	0.00

Table 3C VOC Removal Summary - ERTEW7  
 March 2008 - December 2024  
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 Brewster Village Well Field - Site 3-40-012

Sample Date	Flow (gal)	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
		Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)
3/13/2013	1,099,230	20	0.18	8	0.07	50	0.46	0	0.00
4/10/2013	902,916	20	0.15	7	0.06	64	0.48	2	0.02
4/30/2013	1,062,042	25	0.22	7	0.06	64	0.57	0	0.00
6/6/2013	1,062,042	0	0.00	7	0.06	55	0.49	2	0.02
7/11/2013	662,848	16	0.09	8	0.05	45	0.25	2	0.01
8/20/2013	977,023	27	0.22	10	0.08	0	0.00	3	0.03
9/12/2013	488,108	33	0.13	11	0.04	74	0.30	0	0.00
10/10/2013	407,910	40	0.14	13	0.04	87	0.30	5	0.02
11/15/2013	4,747	16	0.00	6	0.00	18	0.00	0	0.00
12/11/2013	51,000	7	0.00	3	0.00	15	0.01	0	0.00
12/31/2013	588,520	17	0.08	0	0.00	43	0.21	3	0.01
2/18/2014	799,970	22	0.15	10	0.07	52	0.35	0	0.00
3/13/2014	1,258,030	25	0.26	9	0.09	49	0.51	2	0.02
4/9/2014	329,553	24	0.07	10	0.03	48	0.13	2	0.01
5/8/2014	856,526	17	0.12	9	0.06	38	0.27	1	0.01
6/3/2014	590,142	34	0.17	10	0.05	50	0.25	0	0.00
7/9/2014	951,046	27	0.21	9	0.07	63	0.50	2	0.02
8/6/2014	848,720	46	0.33	13	0.09	79	0.56	4	0.03
9/4/2014	924,513	47	0.36	14	0.11	75	0.58	0	0.00
10/1/2014	1,145,664	47	0.45	13	0.12	62	0.59	3	0.03
11/6/2014	770,201	43	0.28	11	0.07	53	0.34	3	0.02
12/3/2014	405,058	17	0.06	7	0.02	25	0.08	0	0.00
1/7/2015	177,484	29	0.04	10	0.01	39	0.06	4	0.01
3/2/2015	1,107,813	12	0.11	7	0.07	34	0.31	0	0.00
4/10/2015	666,691	14	0.08	10	0.05	41	0.23	1	0.01
5/7/2015	745,654	14	0.09	8	0.05	25	0.16	1	0.01
6/3/2015	902,608	16	0.12	8	0.06	56	0.42	0	0.00
7/9/2015	606,799	18	0.09	9	0.05	54	0.27	0	0.00
8/12/2015	303,974	15	0.04	7	0.02	42	0.11	0	0.00
9/1/2015	858,752	18	0.13	7	0.05	43	0.31	2	0.01
10/14/2015	450,795	26	0.10	9	0.03	63	0.24	1	0.00
11/10/2015	539,178	28	0.13	11	0.05	69	0.31	2	0.01
12/1/2015	505,180	34	0.14	14	0.06	56	0.24	2	0.01
1/4/2016	565,918	22	0.10	11	0.05	43	0.20	0	0.00
2/2/2016	554,382	29	0.13	11	0.05	52	0.24	2	0.01
3/7/2016	717,713	22	0.13	11	0.07	46	0.28	1	0.01
4/14/2016	563,026	19	0.09	0	0.00	760	3.57	0	0.00
5/12/2016	411,496	17	0.06	11	0.04	51	0.18	0	0.00
6/7/2016	396,640	15	0.05	7	0.02	24	0.08	0	0.00
7/7/2016	444,115	19	0.07	10	0.04	59	0.22	2	0.01
8/4/2016	526,416	25	0.11	9	0.04	59	0.26	2	0.01
9/6/2016	364,047	24	0.07	8	0.02	61	0.19	2	0.01
11/1/2016	412,030	44	0.15	14	0.05	66	0.23	4	0.01
12/5/2016	474,989	34	0.13	13	0.05	59	0.23	0	0.00
1/4/2017	498,416	20	0.08	9	0.04	45	0.19	1	0.00
1/30/2017	458,840	26	0.10	12	0.05	46	0.18	3	0.01
3/1/2017	500,180	19	0.08	10	0.04	38	0.16	0	0.00
4/5/2017	455,533	9	0.03	7.1	0.03	28	0.11	0	0.00
5/3/2017	405,402	12	0.04	9.1	0.03	36	0.12	0	0.00
7/24/2017	598,874	2	0.01	1.4	0.01	17	0.08	0	0.00
8/3/2017	204,221	9	0.02	5.8	0.01	33	0.06	0	0.00
9/7/2017	690,164	17	0.10	9.6	0.06	63	0.36	0	0.00
10/4/2017	549,731	23	0.11	6.8	0.03	52	0.24	0	0.00
11/6/2017	534,703	18	0.08	9.3	0.04	48	0.21	0	0.00
12/6/2017	587,438	26	0.13	7.2	0.04	45	0.22	0	0.00

Table 3C VOC Removal Summary - ERTEW7  
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 Brewster Village Well Field - Site 3-40-012

Sample Date	Flow (gal)	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
		Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)
1/5/2018	417,667	25	0.09	8	0.03	40	0.14	0	0.00
2/1/2018	402,829	8.2	0.03	5.1	0.02	16	0.05	0	0.00
4/3/2018	932,717	14	0.11	8.6	0.07	33	0.26	0	0.00
5/2/2018	1,358,267	14	0.16	9.6	0.11	35	0.40	0	0.00
6/7/2018	959,257	12	0.10	5.5	0.04	19	0.15	0	0.00
7/5/2018	178,955	5.4	0.01	4.3	0.01	17	0.03	0	0.00
8/15/2018	2,124	1	0.00	1.6	0.00	8.1	0.00	0	0.00
9/5/2018	350,837	4.1	0.01	1.8	0.01	9.6	0.03	0	0.00
10/23/2018	1,214,877	8.2	0.08	12	0.12	36	0.36	0	0.00
12/6/2018	1,045,026	9.2	0.08	10	0.09	37	0.32	0	0.00
12/31/2018	838,995	10	0.07	6.8	0.05	34	0.24	0	0.00
2/8/2019	542,839	6	0.03	7.4	0.03	25	0.11	0	0.00
3/6/2019	338,972	6.3	0.02	5.1	0.01	22	0.06	0	0.00
4/5/2019	451,766	7.6	0.03	4.3	0.02	19	0.07	0	0.00
5/1/2019	466,036	7	0.03	4.5	0.02	23	0.09	0	0.00
6/5/2019	589,205	6.9	0.03	4.3	0.02	25	0.12	0	0.00
7/9/2019	582,003	NS	0.00	NS	0.00	NS	0.00	0	0.00
8/12/2019	202,565	12	0.02	6.6	0.01	42	0.07	0	0.00
9/6/2019	67,919	7.8	0.00	5.2	0.00	25	0.01	0	0.00
10/4/2019	406,296	10	0.03	4.5	0.02	44	0.15	0	0.00
11/8/2019	389,653	10	0.03	7	0.02	29	0.09	0	0.00
12/11/2019	569,940	11	0.05	6.5	0.03	40	0.19	0	0.00
1/3/2020	369,596	14	0.04	6.5	0.02	38	0.12	0	0.00
2/10/2020	356,117	6	0.02	4	0.01	19	0.06	0.1	0.00
3/3/2020	346,638	12	0.03	6.9	0.02	35	0.10	0	0.00
4/2/2020	547,875	12	0.05	6.5	0.03	35	0.16	0.7	0.00
5/7/2020	189,810	6	0.01	3.8	0.01	19	0.03	0	0.00
6/4/2020	491,830	12	0.05	7.6	0.03	34	0.14	0.4	0.00
7/9/2020	104,966	6	0.00	2.1	0.00	15	0.01	0	0.00
8/12/2020	93,599	0	0.00	0	0.00	0	0.00	0	0.00
9/10/2020	0	0	0.00	0	0.00	0	0.00	0	0.00
10/16/2020	102	18	0.00	11	0.00	210	0.00	2.3	0.00
11/20/2020	125,510	11	0.01	5.6	0.01	30	0.03	0	0.00
12/2/2020	163,634	12	0.02	9.7	0.01	29	0.04	0.3	0.00
1/5/2021	602,181	11	0.05	6.6	0.03	25	0.13	0	0.00
2/8/2021	566,944	10	0.04	6.9	0.03	28	0.13	0	0.00
3/3/2021	431,343	10	0.03	2.8	0.01	26	0.09	0	0.00
4/8/2021	603,247	8	0.04	5.1	0.03	26	0.13	0	0.00
5/5/2021	812,836	10	0.06	4	0.03	28	0.19	0	0.00
6/2/2021	831,380	10	0.06	3.5	0.02	28	0.19	0	0.00
7/6/2021	156,722	3	0.00	1.8	0.00	14	0.02	0	0.00
8/20/2021	-	13	-	3.6	-	30	-	1.6	-
9/2/2021	-	14	-	5.4	-	28	-	0	-
10/6/2021	383,090	8	0.02	5.6	0.02	24	0.08	0	0.00
11/8/2021	558,051	17	0.07	6.1	0.03	48	0.22	0	0.00
12/13/2021	991,958	13	0.10	6.6	0.05	28	0.23	0	0.00
1/3/2022	274,133	8	0.02	5.9	0.01	22	0.05	0	0.00
2/10/2022	348,751	9	0.02	4.1	0.01	18	0.05	0	0.00
3/11/2022	743,514	7	0.04	3.1	0.02	39	0.24	0	0.00
4/6/2022	420,721	6	0.02	6.5	0.02	20	0.07	0	0.00
5/12/2022	170	2	0.00	0	0.00	4.6	0.00	0	0.00
6/1/2022	-	2	-	0	-	5.1	-	0	-
7/15/2022	474	3	0.00	1.6	0.00	11	0.00	0	0.00
8/3/2022	-	4	-	1.7	-	9.4	-	0	-
9/13/2022	-	46	-	1.2	-	3.6	-	0	-

Table 3C VOC Removal Summary - ERTEW7  
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Sample Date	Flow (gal)	cis 1,2-Dichloroethene		Trichloroethene		Tetrachloroethene		Vinyl Chloride	
		Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)	Conc. (µg/L)	Mass (lb)
10/28/2022	-	-	-	-	-	-	-	-	-
11/28/2022	-	-	-	-	-	-	-	-	-
12/22/2022	-	-	-	-	-	-	-	-	-
1/15/2023	-	-	-	-	-	-	-	-	-
2/15/2023	-	-	-	-	-	-	-	-	-
3/15/2023	-	-	-	-	-	-	-	-	-
4/26/2023	233,647	6	0.01	3	0.01	13	0.02	1	0.00
5/22/2023	726,080	5	0.03	3	0.02	16	0.09	0	0.00
6/9/2023	205,494	4	0.01	3	0.00	15	0.02	0	0.00
6/22/2023	356,059	6	0.02	3	0.01	18	0.05	0	0.00
7/27/2023	835,763	7	0.04	4	0.02	24	0.15	0	0.00
8/30/2023	801,467	8	0.05	3	0.02	23	0.14	0	0.00
9/21/2023	463,847	9	0.03	4	0.01	26	0.09	0	0.00
10/10/2023	392,390	4	0.01	4	0.01	19	0.06	0	0.00
11/14/2023	763,179	5	0.03	3	0.02	12	0.07	0	0.00
12/20/2023	744,708	- <sup>1</sup>	- <sup>1</sup>	- <sup>1</sup>	- <sup>1</sup>	- <sup>1</sup>	- <sup>1</sup>	- <sup>1</sup>	- <sup>1</sup>
2/5/2024	1,182,035	5	0.05	3	0.03	14	0.13	0	0.00
3/11/2024	952,630	5	0.04	0	0.00	15	0.11	0	0.00
4/18/2024	955,730	6	0.04	3	0.02	17	0.13	0	0.00
5/13/2024	621,804	7	0.03	2	0.01	16	0.08	0	0.00
6/3/2024	477,609	6	0.02	3	0.01	20	0.07	0	0.00
7/19/2024	976,160	9	0.07	3	0.02	31	0.23	0	0.00
8/21/2024	679,491	11	0.06	3	0.02	33	0.17	0	0.00
9/19/2024	631,291	14	0.07	4	0.02	34	0.17	1	0.00
10/15/2024	601,644	13	0.06	4	0.02	26	0.12	1	0.00
11/18/2024	718,124	11	0.06	4	0.02	18	0.10	0	0.00
12/20/2024	427,799	8	0.03	3	0.01	212	0.70	1	0.00

**Legend**

Conc. - concentration  
 gal - gallon  
 lb - pound  
 NS - not sampled  
 µg/L - micrograms per liter  
 - No reading or sample collected because pump or entire system was shutdown at time of inspection.

**Notes**

1. Samples were not collected from the GWTS during the December 2023 inspection event due to an impending contract expiration (EOY 2023).

Table 3D VOC Removal Summary - Combined Influent  
 March 2008 - December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

Sample Date	Mass Extracted by Compound (lb)				Total VOCs removed for interval (lbs)
	cis 1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	Vinyl Chloride	
3/31/2008	1.16	0.10	10.64	0.17	12.06
4/30/2008	1.27	0.12	8.34	0.31	10.04
5/28/2008	0.53	0.05	4.99	0.09	5.65
6/20/2008	0.74	0.08	3.22	0.15	4.20
7/25/2008	1.62	0.06	4.85	0.29	6.82
8/29/2008	0.98	0.05	4.57	5.55	11.15
9/30/2008	0.89	0.05	9.35	0.15	10.44
10/30/2008	0.42	0.06	25.46	0.12	26.07
12/22/2008	0.06	0.06	24.50	0.07	24.70
1/22/2009	0.41	0.04	11.54	0.06	12.05
2/25/2009	0.56	0.04	9.65	0.08	10.33
3/31/2009	0.70	0.07	23.15	0.08	24.00
5/1/2009	0.98	0.03	3.35	0.23	4.59
5/29/2009	0.43	0.04	8.43	0.05	8.96
6/30/2009	0.56	0.05	10.79	0.09	11.49
7/29/2009	0.55	0.04	8.50	0.10	9.18
8/25/2009	0.49	0.03	6.74	0.09	7.35
9/24/2009	1.00	0.05	5.76	0.08	6.88
10/27/2009	0.37	0.02	2.55	0.01	2.95
11/23/2009	0.78	0.03	4.21	0.00	5.02
12/22/2009	0.77	0.03	3.88	0.05	4.72
1/28/2010	0.90	0.03	5.55	0.05	6.53
2/23/2010	0.54	0.03	3.98	0.00	4.56
3/31/2010	0.73	0.05	5.01	0.01	5.80
4/20/2010	0.88	0.05	5.41	0.02	6.36
5/26/2010	2.80	0.07	10.24	0.22	13.33
6/23/2010	0.60	0.04	3.44	0.02	4.10
7/28/2010	0.85	0.06	3.99	0.04	4.94
8/31/2010	0.73	0.04	3.54	0.03	4.34
9/29/2010	0.41	0.04	2.28	0.00	2.72
10/28/2010	0.83	0.06	3.23	0.05	4.17
11/30/2010	0.89	0.06	2.08	0.05	3.08
12/28/2010	0.80	0.09	0.50	0.03	1.42
1/25/2011	0.53	0.06	0.99	0.08	1.66
2/24/2011	0.62	0.08	2.17	0.00	2.88
3/29/2011	0.98	0.15	4.52	0.04	5.69
4/28/2011	0.77	0.10	4.94	0.05	5.86
5/25/2011	0.93	0.12	4.35	0.10	5.50
6/30/2011	1.12	0.09	5.33	0.14	6.69
7/28/2011	0.57	0.04	3.31	0.06	3.98
8/30/2011	1.13	0.07	4.07	0.20	5.48
9/30/2011	0.97	0.07	2.51	0.18	3.73
12/14/2011	2.19	0.18	7.08	0.10	9.56
1/11/2012	0.75	0.06	2.42	0.05	3.28
2/10/2012	0.62	0.04	2.61	0.07	3.34
3/13/2012	0.63	0.02	2.84	0.07	3.56
4/10/2012	0.33	0.02	2.40	0.04	2.78
5/10/2012	0.28	0.02	2.31	0.03	2.65
6/5/2012	0.30	0.02	2.69	0.03	3.04
8/1/2012	0.39	0.05	3.51	0.02	3.97
8/23/2012	0.15	0.02	1.37	0.00	1.54
9/27/2012	0.45	0.05	3.72	0.00	4.23
12/4/2012	0.84	0.15	7.74	0.04	8.77
1/16/2013	0.34	0.06	3.02	0.01	3.43
2/7/2013	0.33	0.06	2.75	0.00	3.14
3/13/2013	0.38	0.07	3.33	0.00	3.78
4/10/2013	0.15	0.06	0.48	0.02	0.70
4/30/2013	0.22	0.06	0.57	0.00	0.85
6/6/2013	0.21	0.09	3.87	0.08	4.25

Table 3D VOC Removal Summary - Combined Influent  
 March 2008 - December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

Sample Date	Mass Extracted by Compound (lb)				Total VOCs removed for interval (lbs)
	cis 1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	Vinyl Chloride	
7/11/2013	0.21	0.05	2.85	0.01	3.12
8/20/2013	0.38	0.08	3.62	0.06	4.15
9/12/2013	0.24	0.04	2.24	0.00	2.52
10/10/2013	0.29	0.04	3.29	0.07	3.69
11/15/2013	0.10	0.00	2.55	0.00	2.65
12/11/2013	0.04	0.00	1.26	0.01	1.31
12/31/2013	0.14	0.00	1.68	0.03	1.85
2/18/2014	0.22	0.07	2.96	0.00	3.25
3/13/2014	0.33	0.09	2.77	0.02	3.22
4/9/2014	0.10	0.03	0.91	0.01	1.05
5/8/2014	0.25	0.07	2.24	0.01	2.56
6/3/2014	0.30	0.05	1.35	0.01	1.72
7/9/2014	0.31	0.08	3.06	0.02	3.47
8/6/2014	0.42	0.11	3.24	0.03	3.79
9/4/2014	0.42	0.11	3.93	0.00	4.46
10/1/2014	0.54	0.13	2.15	0.05	2.87
11/6/2014	0.33	0.07	1.13	0.02	1.55
12/3/2014	0.15	0.06	4.09	0.00	4.31
1/7/2015	0.26	0.01	4.56	0.01	4.84
3/2/2015	0.14	0.07	1.37	0.00	1.59
4/10/2015	0.16	0.06	2.88	0.03	3.12
5/7/2015	0.20	0.05	2.18	0.01	2.43
6/3/2015	0.27	0.06	3.94	0.00	4.26
7/9/2015	0.16	0.05	2.43	0.00	2.63
8/12/2015	0.06	0.02	1.01	0.00	1.09
9/1/2015	0.18	0.05	2.63	0.01	2.87
10/14/2015	0.10	0.03	0.37	0.00	0.51
11/10/2015	0.31	0.09	3.55	0.01	3.95
12/1/2015	0.20	0.06	2.83	0.01	3.10
1/4/2016	0.19	0.06	3.59	0.00	3.84
2/2/2016	0.20	0.05	2.45	0.01	2.71
3/7/2016	0.16	0.07	0.81	0.01	1.05
4/14/2016	0.18	0.05	3.86	0.01	4.09
5/12/2016	0.14	0.04	2.98	0.00	3.16
6/7/2016	0.11	0.03	2.26	0.00	2.39
7/7/2016	0.12	0.04	2.93	0.01	3.10
8/4/2016	0.17	0.04	3.09	0.01	3.30
9/6/2016	0.09	0.03	0.54	0.01	0.66
11/1/2016	0.16	0.05	0.84	0.01	1.07
12/5/2016	0.13	0.05	1.76	0.00	1.95
1/4/2017	0.08	0.04	1.71	0.00	1.84
1/30/2017	0.12	0.05	1.98	0.01	2.15
3/1/2017	0.16	0.04	2.31	0.00	2.51
4/5/2017	0.15	0.03	4.02	0.00	4.19
5/3/2017	0.07	0.03	0.79	0.00	0.89
7/24/2017	0.01	0.01	3.90	0.00	3.92
8/3/2017	0.04	0.01	1.26	0.00	1.32
9/7/2017	0.12	0.06	1.03	0.00	1.21
10/4/2017	0.20	0.03	2.67	0.00	2.90
11/6/2017	0.17	0.04	3.10	0.00	3.31
12/6/2017	0.14	0.04	2.07	0.00	2.25
1/5/2018	0.09	0.03	0.22	0.00	0.34
2/1/2018	0.03	0.02	0.06	0.00	0.10
4/3/2018	0.11	0.07	0.38	0.00	0.56
5/2/2018	0.25	0.11	2.48	0.00	2.84
6/7/2018	0.12	0.04	0.63	0.00	0.80
7/5/2018	0.02	0.02	0.72	0.00	0.76
8/15/2018	0.00	0.00	0.00	0.00	0.00
9/5/2018	0.01	0.03	1.10	0.00	1.14

Table 3D VOC Removal Summary - Combined Influent  
 March 2008 - December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

Sample Date	Mass Extracted by Compound (lb)				Total VOCs removed for interval (lbs)
	cis 1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	Vinyl Chloride	
10/23/2018	0.09	0.12	0.42	0.00	0.63
12/6/2018	0.17	0.11	3.17	0.00	3.44
12/31/2018	0.11	0.06	1.10	0.01	1.28
2/8/2019	0.07	0.05	0.67	0.00	0.79
3/6/2019	0.03	0.02	0.68	0.00	0.73
4/5/2019	0.09	0.02	1.33	0.03	1.47
5/1/2019	0.11	0.02	2.25	0.03	2.41
6/5/2019	0.12	0.02	2.50	0.04	2.68
7/9/2019	0.09	0.02	2.42	0.04	2.56
8/12/2019	0.13	0.03	2.21	0.03	2.41
9/6/2019	0.02	0.01	0.60	0.00	0.62
10/4/2019	0.12	0.02	2.89	0.04	3.06
11/8/2019	0.26	0.07	0.92	0.00	1.25
12/11/2019	0.12	0.03	2.53	0.03	2.71
1/3/2020	0.11	0.02	2.00	0.00	2.13
2/10/2020	0.08	0.03	1.75	0.00	1.85
3/3/2020	0.09	0.03	1.85	0.03	2.01
4/2/2020	0.14	0.04	2.96	0.05	3.19
5/7/2020	0.04	0.02	1.20	0.00	1.26
6/4/2020	0.15	0.05	2.64	0.05	2.89
7/9/2020	0.03	0.01	0.40	0.00	0.43
8/12/2020	0.11	0.03	4.28	0.02	4.44
9/10/2020	0.12	0.02	2.50	0.04	2.68
10/16/2020	0.07	0.01	1.67	0.02	1.78
11/20/2020	0.04	0.01	0.90	0.00	0.96
12/2/2020	0.03	0.01	0.13	0.00	0.18
1/5/2021	0.12	0.04	1.29	0.01	1.46
2/8/2021	0.11	0.04	1.41	0.00	1.56
3/3/2021	0.08	0.01	1.49	0.02	1.60
4/8/2021	0.08	0.03	1.19	0.00	1.30
5/5/2021	0.08	0.03	2.96	0.00	3.07
6/2/2021	0.08	0.02	2.68	0.00	2.78
7/6/2021	0.02	0.00	0.80	0.00	0.82
8/20/2021	-	-	-	-	-
9/2/2021	-	-	-	-	-
10/6/2021	0.06	0.02	1.79	0.02	1.88
11/8/2021	0.15	0.06	1.55	0.00	1.76
12/13/2021	0.12	0.05	3.11	0.04	3.32
1/3/2022	0.04	0.02	0.97	0.00	1.03
2/10/2022	0.07	0.01	1.84	0.00	1.93
3/11/2022	0.04	0.02	0.54	0.00	0.60
4/6/2022	0.02	0.02	0.11	0.00	0.15
5/12/2022	0.00	0.00	0.00	0.00	0.00
6/1/2022	-	-	-	-	-
7/15/2022	0.00	0.00	0.00	0.00	0.00
8/3/2022	-	-	-	-	-
9/13/2022	-	-	-	-	-
10/28/2022	-	-	-	-	-
11/28/2022	-	-	-	-	-
12/22/2022	-	-	-	-	-
1/15/2023	-	-	-	-	-
2/15/2023	-	-	-	-	-
3/15/2023	-	-	-	-	-
4/26/2023	0.02	0.01	0.34	0.01	0.38
5/22/2023	0.08	0.03	0.99	0.04	1.13
6/9/2023	0.05	0.02	0.69	0.03	0.79
6/22/2023	0.09	0.02	1.00	0.05	1.16
7/27/2023	0.11	0.02	1.06	0.04	1.24
8/30/2023	0.06	0.02	0.42	0.00	0.49

Table 3D VOC Removal Summary - Combined Influent  
 March 2008 - December 2024  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

Sample Date	Mass Extracted by Compound (lb)				Total VOCs removed for interval (lbs)
	cis 1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	Vinyl Chloride	
9/21/2023	0.07	0.01	0.66	0.02	0.76
10/10/2023	0.01	0.01	1.26	0.00	1.28
11/14/2023	0.03	0.02	1.57	0.00	1.62
12/20/2023	- <sup>1</sup>	- <sup>1</sup>	- <sup>1</sup>	- <sup>1</sup>	- <sup>1</sup>
2/5/2024	0.07	0.04	1.30	0.01	1.41
3/11/2024	0.05	0.00	1.03	0.00	1.09
4/18/2024	0.07	0.02	1.02	0.01	1.11
5/13/2024	0.04	0.01	0.57	0.00	0.63
6/3/2024	0.03	0.01	0.51	0.00	0.55
7/19/2024	0.10	0.03	2.14	0.02	2.29
8/21/2024	0.08	0.02	1.45	0.01	1.56
9/19/2024	0.08	0.02	1.28	0.01	1.40
10/15/2024	0.07	0.02	0.63	0.01	0.72
11/18/2024	0.08	0.03	1.09	0.00	1.20
12/20/2024	0.05	0.02	1.42	0.01	1.49

**Legend**

lb - pound

- No reading or sample collected because pump or entire system was shutdown at time of inspection.

**Notes**

1. Samples were not collected from the GWTS during the December 2023 inspection event due to an impending contract expiration (EOY 2023).

Table 4A Groundwater Gauging Summary - Shallow Wells

April 2025

Periodic Review Report 2024

Brewster Village Well Field - Site 3-40-012

Well Name	Well Description	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet above mean sea level)	Groundwater Elevation (feet above mean sea level)	Depth to bottom (feet below ground surface)
DGC-1S	Shallow	6.33	336.66	330.33	10.42
DGC-2S	Shallow	6.13	338.22	332.09	19.76
DGC-3S	Shallow	NG	336.81	u/k	NG
DGC-5S	Shallow	NG	340.99	u/k	NG
DGC-7S	Shallow	NG	335.03	u/k	NG
DGC-8S	Shallow	NG	335.68	u/k	NG
DGC-9S	Shallow	NG	334.45	u/k	NG
DGC-10S	Shallow	NG	336.63	u/k	NG
DGC-11S	Shallow	NG	336.99	u/k	NG
DGC-12S	Shallow	6.23	337.02	330.79	6.30
DGC-13S	Shallow	5.67	335.84	330.17	9.00
DGC-14S	Shallow	9.06	342.24	333.18	12.85
DGC-15S	Shallow	NG	344.36	u/k	NG
DGC-16S	Shallow	NG	340.92	u/k	NG
DGC-18S	Shallow	NG	338.87	u/k	NG
DGC-19S	Shallow	NG	337.76	u/k	NG
ERT-1S	Shallow	NG	338.05	u/k	NG
ERT-2S	Shallow	NG	338.2	u/k	NG
ERT-5S	Shallow	NG	338.08	u/k	NG
ERT-8S	Shallow	NG	341.43	u/k	NG
TH-11B	Shallow	4.49	334.7	330.21	9.97
IPS-MW-04	Shallow	7.88	u/k	u/k	20.63

**Legend**

NG - not gauged

u/k - unknown

Table 4B Groundwater Gauging Summary - Intermediate Wells

April 2025

Periodic Review Report 2024

Brewster Village Well Field - Site 3-40-012

Well Name	Well Description	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet above mean sea level)	Groundwater Elevation (feet above mean sea level)	Depth to bottom (feet below ground surface)
DGC-1I	Intermediate	6.33	336.61	329.63	42.91
DGC-2I	Intermediate	NG*	338.55	u/k	NG*
DGC-3I	Intermediate	NG	336.34	u/k	NG
DGC-5I	Intermediate	NG	341.97	u/k	NG
DGC-6I	Intermediate	NG	338.47	u/k	NG
DGC-7I	Intermediate	NG	334.6	u/k	NG
DGC-8I	Intermediate	NG	336.09	u/k	NG
DGC-9I	Intermediate	NG	334.17	u/k	NG
DGC-10I	Intermediate	NG	338.43	u/k	NG
DGC-11I	Intermediate	NG	336.67	u/k	NG
DGC-12IA	Intermediate	7.28	337.81	329.83	42.96
DGC-13I	Intermediate	3.91	334.43	329.83	65.01
DGC-14I	Intermediate	NG	341.07	u/k	NG
DGC-15I	Intermediate	NG	342.76	u/k	NG
DGC-16I	Intermediate	NG	340	u/k	NG
DGC-17I	Intermediate	NG	336.1	u/k	NG
DGC-18I	Intermediate	NG	339.28	u/k	NG
DGC-19I	Intermediate	NG	337.9	u/k	NG
ERT-1I	Intermediate	NG	337.94	u/k	NG
ERT-2I	Intermediate	NG	338.31	u/k	NG
ERT-3I	Intermediate	NG	338.64	u/k	NG
ERT-4I	Intermediate	NG	338.47	u/k	NG
ERT-5I	Intermediate	NG	338.03	u/k	NG
ERT-6I	Intermediate	NG	339.65	u/k	NG
ERT-7I	Intermediate	NG	339.99	u/k	NG
ERT-8I	Intermediate	NG	341.7	u/k	NG
ERT-9I	Intermediate	NG	339.51	u/k	NG
ERT-10I	Intermediate	NG	337.91	u/k	NG
ERT-EW-5	Intermediate	NG	337.78	u/k	NG
ERT-EW-6	Intermediate	NG	338.33	u/k	NG
ERT-EW-7	Intermediate	NG	337.86	u/k	NG
GMS-02	Intermediate	NG	339.59	u/k	NG
GMS-04	Intermediate	NG	339.6	u/k	NG
TH-6	Intermediate	NG	337.05	u/k	NG
TH-7	Intermediate	6.98	337.35	329.58	28.54
TH-9	Intermediate	NG	333.64	u/k	NG
TH-11B	Intermediate	NG	334.7	u/k	NG
TH-13	Intermediate	NG	338.2	u/k	NG
IPS-MW-01	Intermediate	7.41	u/k	u/k	29.62
IPS-MW-02I	Intermediate	7.28	u/k	u/k	19.5
IPS-MW-03	Intermediate	6.97	u/k	u/k	29.53
IPS-MW-04I	Intermediate	7.96	u/k	u/k	28.85

**Legend**

NG - not gauged

u/k - unknown

Table 4C Groundwater Gauging Summary - Deep Wells

April 2025

Periodic Review Report 2024

Brewster Village Well Field - Site 3-40-012

Well Name	Well Description	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet above mean sea level)	Groundwater Elevation (feet above mean sea level)	Depth to bottom (feet below ground surface)
CDM-1	Deep	12.78	342.42	329.83	40.93
CDM-2	Deep	19.35	349.88	329.83	49.05
CDM-3	Deep	21.58	352.3	322.06	NG
DGC-1D	Deep	5.41	336.63	329.83	>100
DGC-2D	Deep	5.72	338.43	329.83	40.99
DGC-7D	Deep	NG*	335	u/k*	NG*
DGC-10D	Deep	NG	336.61	u/k	NG
DGC-12D	Deep	NG	336.44	u/k	NG
DGC-14D	Deep	2.91	341.12	329.83	79.21
DGC-15D	Deep	NG	342.69	u/k	NG
DGC-19D	Deep	NG	338.04	u/k	NG
ERT-8D	Deep	NG	341.99	u/k	NG
ERT-9D	Deep	NG	339.63	u/k	NG
ERT-10D	Deep	NG	337.89	u/k	NG
IPS-MW-02D	Deep	8.25	u/k	u/k	29.66

**Legend**

NG - not gauged

u/k - unknown

\* - Artesian

Table 5A Groundwater Analytical Results - Shallow Wells  
 April-May 2025  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

Sample ID Sampling Date Unit   Qualifier	NYSDEC AWQS and Guidance Values (µg/l)	DGC 15		DCG 35		DGC 75		DGC-95		DGC-145		DGC-165		DGC-185		DGC-195A*		ERT 15	
		4/22/2025		4/24/2025		4/23/2025		4/23/2025		4/30/2025		4/24/2025		4/22/2025		4/24/2025		4/28/2025	
		(µg/l)	Q																
1,1,1-Trichloroethane (TCA)	5	0.20	U	10	U														
1,1,2,2-Tetrachloroethane	5	0.20	U	10	U														
1,1,2-Trichloroethane	1	0.20	U	10	U														
1,1-Dichloroethane	5	0.20	U	10	U														
1,1-Dichloroethene	5	0.20	U	11	DJ														
1,2-Dichloroethane	0.6	0.20	U	10	U														
1,2-Dichloropropane	1	0.20	U	10	U														
2-butanone	50	0.78	U	50	U														
2-Hexanone	50	0.20	U	50	U														
4-Methyl-2-pentanone	NL	0.20	U	50	U														
Acetone	50	5.00	U	50	U														
Benzene	1	0.20	U	10	U														
Bromodichloromethane	50	0.20	U	10	U														
Bromoform	50	0.25	U	10	U														
Bromomethane	5	0.70	U	10	U														
Carbon disulfide	NL	0.42	U	10	U														
Carbon tetrachloride	5	0.34	U	10	U														
Chlorobenzene	5	0.20	U	10	U														
Chloroethane	5	0.23	U	10	U														
Chloroform	7	0.51	U	10	U														
Chloromethane	5	0.40	U	10	U														
Dibromochloromethane	50	0.20	U	10	U														
Methylene chloride	5	0.65	U	10	U														
ethylbenzene	5	0.20	U	10	U														
Styrene	5	0.20	U	10	U														
Tetrachloroethylene (PCE)	5	0.21	U	900	DJ														
Toluene	5	0.20	U	10	U														
Trichloroethylene (TCE)	5	0.20	U	830	D														
Vinyl chloride	2	0.20	U	1400	D														
Cis-1,2-Dichloroethylene	5	0.23	U	51		4500	D												
cis-1,3-Dichloropropene	0.41	0.20	U	1	U														
m,p-Xylene	5	0.25	U	2	U														
o-xylene	5	0.20	U	1	U														
trans-1,2-Dichloroethene	5	0.20	U	0.99	J	31	DJ												
trans-1,3-Dichloropropene	0.41	0.23	U	1	U														

**Legend**  
 NYSDEC AWQS - New York State Department of Environmental Conservation Ambient Water Quality Standards  
 µg/L - microgram per liter  
 Q - qualifier  
 NL - no limit established  
 U - nondetect  
 J - analyte detected below quantitation limit  
 D - sample diluted due to exceedance of calibration range

**Notes**  
 1. Applies to sum of cis- and trans-1,3-dichloropropene.  
 2. Gray shaded cells represent values that exceed the NYSDEC AWQS Criteria  
 3. Orange shaded cells represent values in which the Reporting Limit exceed the NYSDEC AWQS Criteria

Table 5A Groundwater Analytical Results - Intermediate Wells  
 April-May 2025  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

Sample ID Sampling Date Unit   Qualifier	NYSDEC AWQS and Guidance Values (µg/l)	CDM 3		DGC-1I		DGC-3I		MW-900		DGC-6I		DGC-7I		DGC-8I		DGC-9I		DGC-14IA		DGC-16I		DGC-17IA		DGC-18I		DGC-19IA*		ERT 1I	
		4/25/2025		4/22/2025		4/25/2025		4/25/2025		4/24/2025		4/23/2025		4/23/2025		4/23/2025		4/30/2025		4/24/2025		4/23/2025		4/22/2025		4/24/2025		4/28/2025	
		(µg/l)	Q																										
1,1,1-Trichloroethane (TCA)	5	0.20	U																										
1,1,2,2-Tetrachloroethane	5	0.20	U																										
1,1,2-Trichloroethane	1	0.20	U																										
1,1-Dichloroethane	5	0.20	U																										
1,1-Dichloroethene	5	0.20	U																										
1,2-Dichloroethane	0.6	0.20	U																										
1,2-Dichloropropane	1	0.20	U																										
2-butanone	50	0.78	U																										
2-Hexanone	50	0.20	U																										
4-Methyl-2-pentanone	NL	0.20	U																										
Acetone	50	5.0	U																										
Benzene	1	0.20	U																										
Bromodichloromethane	50	0.20	U																										
Bromoform	50	0.25	U																										
Bromomethane	5	0.98	J	0.70	U																								
Carbon disulfide	NL	0.42	U																										
Carbon tetrachloride	5	0.34	U																										
Chlorobenzene	5	0.20	U	0.20	U	0.20	U	0.20	U	2.40	J	0.20	U																
Chloroethane	5	0.23	U																										
Chloroform	7	0.51	U																										
Chloromethane	5	0.40	U																										
Dibromochloromethane	50	0.20	U																										
Methylene chloride	5	0.65	U																										
ethylbenzene	5	0.20	U																										
Styrene	5	0.20	U																										
Tetrachloroethylene (PCE)	5	10.00	J	7.60	J	1.20	U	1.20	U	2.40	J	0.63	J	0.76	J	2.90	J	0.21	U	2.80	J	1.70	J	0.21	U	0.31	J	150	J
Toluene	5	0.20	U																										
Trichloroethylene (TCE)	5	1.00	J	0.20	U	1.80	J	0.23	J	1.40	J	0.65	J	0.20	U	1.60	J	0.20	U	0.53	J	0.68	J	0.20	U	0.25	J	2.80	J
Vinyl chloride	2	0.20	U	0.31	J	0.20	U																						
Cis-1,2-Dichloroethylene	5	0.35	J	0.23	U	0.23	U	2.00	J	3.70	J	27.00	J	0.23	U	8.90	J	0.23	U	0.23	U	6.8	J	0.23	U	0.68	J	0.23	U
cis-1,3-Dichloropropene	0.41	0.20	U																										
m,p-Xylene	5	0.25	U																										
o-xylene	5	0.20	U																										
trans-1,2-Dichloroethene	5	0.20	U	0.34	J	0.20	U																						
trans-1,3-Dichloropropene	0.41	0.23	U																										

**Legend**  
 NYSDEC AWQS - New York State Department of Environmental Conservation Ambient Water Quality Standards  
 µg/L - microgram per liter  
 Q - qualifier  
 NL - no limit established  
 U - nondetect  
 J - analyte detected below quantitation limit  
 D - sample diluted due to exceedance of calibration range

**Notes**  
 1. Applies to sum of cis- and trans-1,3-dichloropropene  
 2. Gray shaded cells represent values that exceed the NYSDEC AWQS Criteria  
 3. Orange shaded cells represent values in which the Reporting Limit exceed the NYSDEC AWQS Criteria

Table 5A Groundwater Analytical Results - Intermediate Wells  
 April-May 2025  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

Sample ID Sampling Date Unit   Qualifier	NYSDEC AWQS and Guidance Values (µg/l)	ERT-3I		ERT-5I		ERT-6I		ERT-7I		ERT-10IA*		MW-901		ERT-EW-5		ERT-EW-6		ERT-EW-7		IPS-MW-02I		MW-902		IPS-MW-04I		TH-7		TH-13*	
		4/25/2025		4/30/2025		4/29/2025		4/30/2025		4/28/2025		4/28/2025		5/1/2025		5/1/2025		5/1/2025		4/29/2025		4/29/2025		4/29/2025		4/22/2025		4/25/2025	
		(µg/l)	Q	(µg/l)	Q	(µg/l)	Q	(µg/l)	Q	(µg/l)	Q	(µg/l)	Q	(µg/l)	Q	(µg/l)	Q	(µg/l)	Q	(µg/l)	Q	(µg/l)	Q	(µg/l)	Q	(µg/l)	Q	(µg/l)	Q
1,1,1-Trichloroethane (TCA)	5	0.20	U	0.20	U	5.0	U	0.20	U	0.20	U	0.20	U	1.0	U	0.20	U	0.20	U	5.0	U	2.5	U	10	U	0.20	U	0.20	U
1,1,2,2-Tetrachloroethane	5	0.20	U	0.20	U	5.0	U	0.20	U	0.20	U	0.20	U	1.0	U	0.20	U	0.20	U	5.0	U	2.5	U	10	U	0.20	U	0.20	U
1,1,2-Trichloroethane	1	0.20	U	0.20	U	5.0	U	0.20	U	0.20	U	0.20	U	1.0	U	0.20	U	0.20	U	5.0	U	2.5	U	10	U	0.20	U	0.20	U
1,1-Dichloroethane	5	0.20	U	0.20	U	5.0	U	0.20	U	0.20	U	0.20	U	1.0	U	0.20	U	0.20	U	5.0	U	2.5	U	10	U	0.20	U	0.20	U
1,1-Dichloroethene	5	0.20	U	0.20	U	5.0	J	0.20	U	0.20	U	0.20	U	1.0	U	0.20	U	0.20	U	5.0	U	2.5	U	10	U	0.20	U	0.20	U
1,2-Dichloroethane	0.6	0.20	U	0.20	U	5.0	U	0.20	U	0.20	U	0.20	U	1.0	U	0.20	U	0.20	U	5.0	U	2.5	U	10	U	0.20	U	0.20	U
1,2-Dichloropropane	1	0.20	U	0.20	U	5.0	U	0.20	U	0.20	U	0.20	U	1.0	U	0.20	U	0.20	U	5.0	U	2.5	U	10	U	0.20	U	0.20	U
2-butanone	50	0.78	U	0.78	U	25	U	0.78	U	0.78	U	0.78	U	5.0	U	0.78	U	0.78	U	25	U	13	U	50	U	0.78	U	0.78	U
2-Hexanone	50	0.20	U	0.20	U	25	U	0.20	U	0.20	U	0.20	U	5.0	U	0.20	U	0.20	U	25	U	13	U	50	U	0.20	U	0.20	U
4-Methyl-2-pentanone	NL	0.20	U	0.20	U	25	U	0.20	U	0.20	U	0.20	U	5.0	U	0.20	U	0.20	U	25	U	13	U	50	U	0.20	U	0.20	U
Acetone	50	5.0	U	5.0	U	25.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	25	U	13	U	50	U	5.0	U	5.0	U
Benzene	1	0.20	U	0.20	U	5.0	U	0.20	U	0.20	U	0.20	U	1.0	U	0.20	U	0.20	U	5.0	U	2.5	U	10	U	0.20	U	0.20	U
Bromodichloromethane	50	0.20	U	0.20	U	5.0	U	0.20	U	0.20	U	0.20	U	1.0	U	0.20	U	0.20	U	5.0	U	2.5	U	10	U	0.20	U	0.20	U
Bromoform	50	0.25	U	0.25	U	5.0	U	0.25	U	0.25	U	0.25	U	1.0	U	0.25	U	0.25	U	5.0	U	2.5	U	10	U	0.25	U	0.25	U
Bromomethane	5	0.70	U	0.70	U	5.0	U	0.70	U	0.70	U	0.70	U	1.0	U	0.70	U	0.70	U	5.0	U	2.5	U	10	U	0.70	U	0.70	U
Carbon disulfide	NL	0.42	U	0.42	U	5.0	U	0.42	U	0.42	U	0.42	U	1.0	U	0.42	U	0.42	U	5.0	U	2.5	U	10	U	0.42	U	0.42	U
Carbon tetrachloride	5	0.34	U	0.34	U	5.0	U	0.34	U	0.34	U	0.34	U	1.0	U	0.34	U	0.34	U	5.0	U	2.5	U	10	U	0.34	U	0.34	U
Chlorobenzene	5	0.20	U	0.20	U	2.8	DJ	0.20	U	0.20	J	0.23	J	1.0	U	0.20	U	0.20	U	5.0	U	2.5	U	10	U	0.20	U	0.20	U
Chloroethane	5	0.23	U	0.23	U	5.0	U	0.23	U	0.23	U	0.23	U	1.0	U	0.23	U	0.23	U	5.0	U	2.5	U	10	U	0.23	U	0.23	U
Chloroform	7	0.51	U	0.51	U	5.0	U	0.51	U	0.51	U	0.51	U	1.0	U	0.51	U	0.51	U	5.0	U	2.5	U	10	U	0.51	U	0.51	U
Chloromethane	5	0.40	U	0.40	U	5.0	U	0.40	U	0.40	U	0.40	U	1.0	U	0.40	U	0.40	U	5.0	U	2.5	U	10	U	0.40	U	0.40	U
Dibromochloromethane	50	0.20	U	0.20	U	5.0	U	0.20	U	0.20	U	0.20	U	1.0	U	0.20	U	0.20	U	5.0	U	2.5	U	10	U	0.20	U	0.20	U
Methylene chloride	5	0.65	U	0.65	U	5.0	U	0.65	U	0.65	U	0.65	U	1.0	U	0.65	U	0.65	U	5.0	U	2.5	U	10	U	0.65	U	0.65	U
ethylbenzene	5	0.20	U	0.20	U	5.0	U	0.20	U	0.20	U	0.20	U	1.0	U	0.20	U	0.20	U	5.0	U	2.5	U	10	U	0.20	U	0.20	U
Styrene	5	0.20	U	0.20	U	5.0	U	0.20	U	0.20	U	0.20	U	1.0	U	0.20	U	0.20	U	5.0	U	2.5	U	10	U	0.20	U	0.20	U
Tetrachloroethylene (PCE)	5	88		7.8		400	D	0.21	U	7.4		6.7		860		120		100		520		420		2000		0.32	J	0.21	U
Toluene	5	0.20	U	0.20	U	5.0	U	0.20	U	0.20	U	0.20	U	1.0	U	0.20	U	0.20	U	5.0	U	2.5	U	10	U	0.20	U	0.20	U
Trichloroethylene (TCE)	5	0.53	J	1.90		100	D	0.20	U	1.6		1.6		13		1.9		1.8		38		41		10	U	0.21	J	0.20	U
Vinyl chloride	2	0.20	U	0.20	U	15	D	0.20	U	0.20	U	0.25	J	1.0	J	0.80	J	0.61	J	3.9	J	5.0		10	U	0.57	J	0.20	U
Cis-1,2-Dichloroethylene	5	0.52	J	4.90		310	D	0.23	U	2.9		2.9		13.0		4.6		4.9		80		92		10	U	0.96	J	0.23	U
cis-1,3-Dichloropropene	0.41	0.20	U	0.20	U	5.0	U	0.20	U	0.20	U	0.20	U	1.0	U	0.20	U	0.20	U	0.20	U	2.5	U	10	U	0.20	U	0.20	U
m,p-Xylene	5	0.25	U	0.25	U	1.8	DJ	0.25	U	0.25	U	0.25	U	2.0	U	0.25	U	0.25	U	10	U	5	U	20	U	0.25	U	0.25	U
o-xylene	5	0.20	U	0.20	U	1.0	DJ	0.20	U	0.20	U	0.20	U	1.0	U	0.20	U	0.20	U	5.0	U	2.5	U	10	U	0.20	U	0.20	U
trans-1,2-Dichloroethene	5	0.20	U	0.20	U	1.6	DJ	0.20	U	0.20	U	0.20	U	1.0	U	0.20	U	0.20	U	5.0	U	0.70	J	10	U	0.20	U	0.20	U
trans-1,3-Dichloropropene	0.41	0.23	U	0.23	U	5.0	U	0.23	U	0.23	U	0.23	U	1.0	U	0.23	U	0.23	U	5.0	U	2.5	U	10	U	0.23	U	0.23	U

**Legend**  
 NYSDEC AWQS - New York State Department of Environmental  
 Conservation Ambient Water Quality Standards  
 µg/L - microgram per liter  
 Q - qualifier  
 NL - no limit established  
 U - nondetect  
 J - analyte detected below quantitation limit  
 D - sample diluted due to exceedance of calibration range

**Notes**  
 1. Applies to sum of cis- and trans-1,3-dichloropropene  
 2. Gray shaded cells represent values that exceed the NYSDEC  
 AWQS Criteria  
 3. Orange shaded cells represent values in which the Reporting  
 Limit exceed the NYSDEC AWQS Criteria

Table 5C Groundwater Analytical Results - Deep Wells  
 April-May 2025  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

Sample ID Sampling Date Unit   Qualifier	NYSDEC AWQS and Guidance Values (µg/l)	DGC-1D 4/22/2025		DGC-7D 4/23/2025		DGC-14D 4/30/2025		DGC-19DA* 4/25/2025		ERT 10DA* 4/28/2025		IPS MW 01 4/29/2025		IPS MW 02D 4/29/2025		IPS MW 03 5/1/2025		IPS MW 04D 4/29/2025	
		(µg/l)	Q	(µg/l)	Q	(µg/l)	Q	(µg/l)	Q	(µg/l)	Q	(µg/l)	Q	(µg/l)	Q	(µg/l)	Q	(µg/l)	Q
1,1,1-Trichloroethane (TCA)	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	1.0	U	10	U	0.20	U	1.0	U
1,1,2,2-Tetrachloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	1.0	U	10	U	0.20	U	1.0	U
1,1,2-Trichloroethane	1	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	1.0	U	10	U	0.20	U	1.0	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	1.0	U	10	U	0.20	U	1.0	U
1,1-Dichloroethene	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	1.0	U	10	U	0.20	U	1.0	U
1,2-Dichloroethane	0.6	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	1.0	U	10	U	0.20	U	1.0	U
1,2-Dichloropropane	1	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	1.0	U	10	U	0.20	U	1.0	U
2-butanone	50	0.78	U	0.78	U	0.78	U	0.78	U	0.78	U	5.0	U	50	U	0.78	U	5.0	U
2-Hexanone	50	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	5.0	U	50	U	0.20	U	5.0	U
4-Methyl-2-pentanone	NL	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	5.0	U	50	U	0.20	U	5.0	U
Acetone	50	5.00	U	5.00	U	5.00	U	5.00	U	5.00	U	5.0	U	50	U	5.00	U	5.0	U
Benzene	1	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	1.0	U	10	U	0.20	U	1.0	U
Bromodichloromethane	50	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	1.0	U	10	U	0.20	U	1.0	U
Bromoform	50	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1.0	U	10	U	0.25	U	1.0	U
Bromomethane	5	0.70	U	0.70	U	0.70	U	0.70	U	0.70	U	1.0	U	10	U	0.70	U	1.0	U
Carbon disulfide	NL	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	1.0	U	10	U	0.42	U	1.0	U
Carbon tetrachloride	5	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	1.0	U	10	U	0.34	U	1.0	U
Chlorobenzene	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	1.0	U	10	U	0.20	U	1.0	U
Chloroethane	5	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	1.0	U	10	U	0.23	U	1.0	U
Chloroform	7	0.51	U	0.51	U	0.51	U	0.51	U	0.51	U	1.0	U	10	U	0.51	U	1.0	U
Chloromethane	5	0.40	U	0.40	U	0.40	U	0.40	U	0.40	U	1.0	U	10	U	0.40	U	1.0	U
Dibromochloromethane	50	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	1.0	U	10	U	0.20	U	1.0	U
Methylene chloride	5	0.65	U	0.65	U	0.65	U	0.65	U	0.65	U	1.0	U	10	U	0.65	U	1.0	U
ethylbenzene	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	1.0	U	10	U	0.20	U	1.0	U
Styrene	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	1.0	U	10	U	0.20	U	1.0	U
Tetrachloroethylene (PCE)	5	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	110.0	U	1300	U	180.00	U	170.0	U
Toluene	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	1.0	U	10	U	0.20	U	1.0	U
Trichloroethylene (TCE)	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	J	2.5	U	8.2	J	5.10	U	0.4	J
Vinyl chloride	2	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	5.2	U	10	U	0.29	J	1.0	U
Cis-1,2-Dichloroethylene	5	0.23	U	0.23	U	0.23	U	0.23	U	0.23	J	1.0	U	24	U	23.00	U	0.3	J
cis-1,3-Dichloropropene	0.41	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	1.0	U	10	U	0.20	U	1.0	U
m,p-Xylene	5	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2.0	U	20	U	0.25	U	2.0	U
o-xylene	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	1.0	U	10	U	0.20	U	1.0	U
trans-1,2-Dichloroethene	5	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	1.0	U	10	U	0.20	U	1.0	U
trans-1,3-Dichloropropene	0.41	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	1.0	U	10	U	0.23	U	1.0	U

**Legend**

NYSDEC AWQS - New York State Department of Environmental Conservation Ambient Water Quality Standards  
 µg/L - microgram per liter  
 Q - qualifier  
 NL - no limit established  
 U - nondetect  
 J - analyte detected below quantitation limit

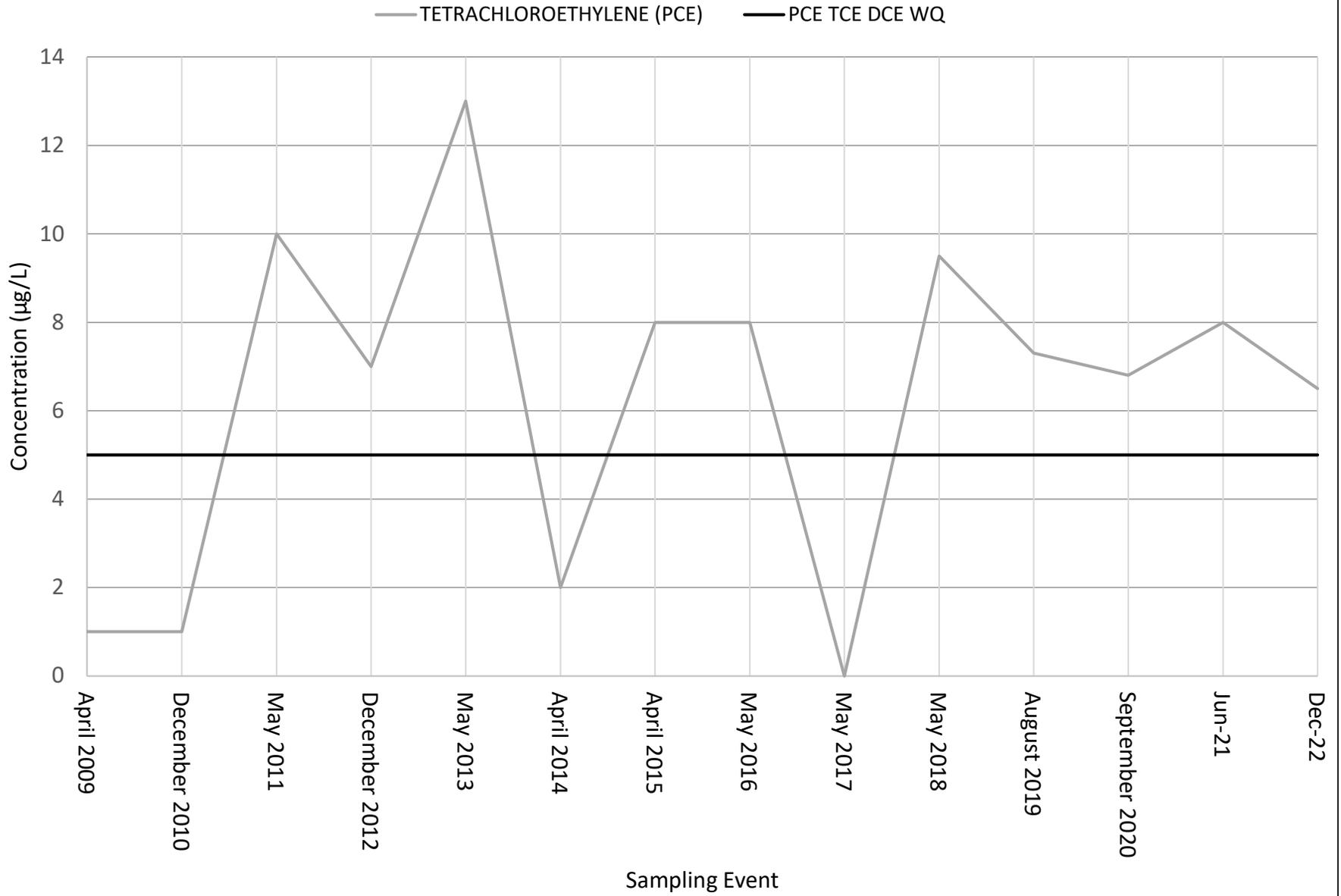
**Notes**

1. Applies to sum of cis- and trans-1,3-dichloropropene
2. Gray shaded cells represent values that exceed the NYSDEC AWQS Criteria
3. Orange shaded cells represent values in which the Reporting Limit exceed the NYSDEC AWQS Criteria

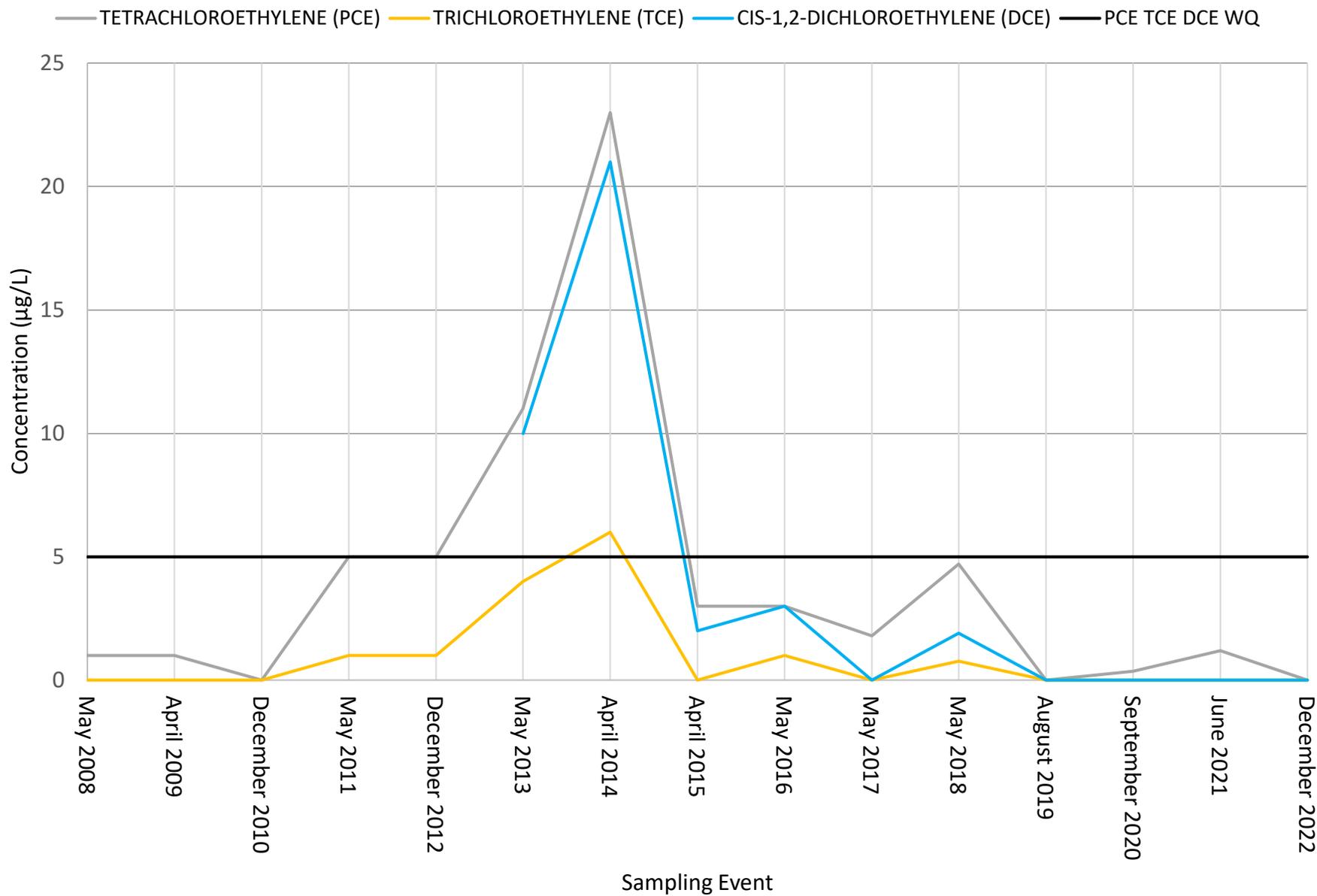


# **Appendix F Historical Analytical Results Trend Plots – Groundwater Monitoring Wells, Groundwater Treatment System, and Brewster Village Well Field Treatment System Influent, Revised 2025**

# DGC-1I

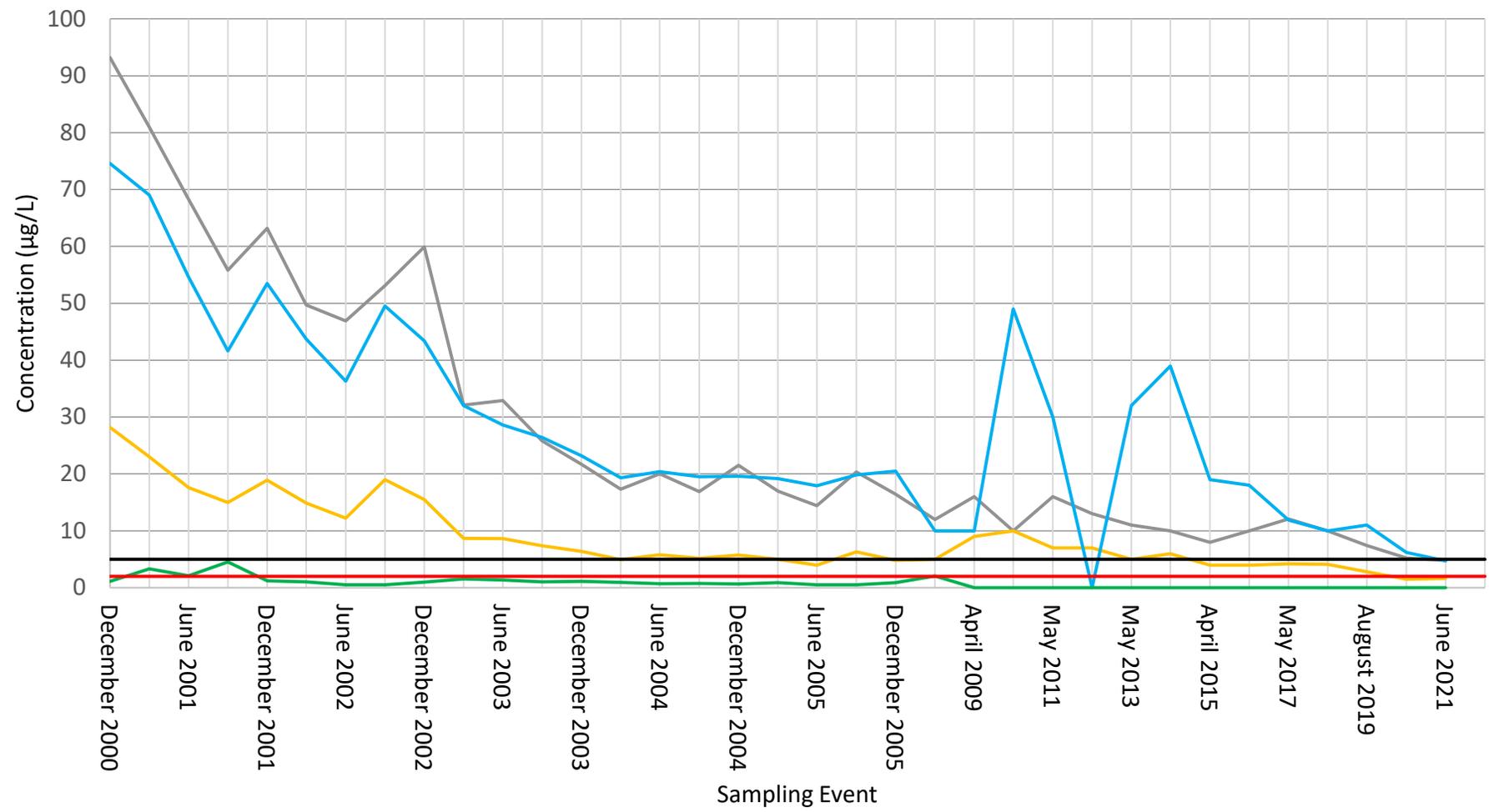


# DGC-3I

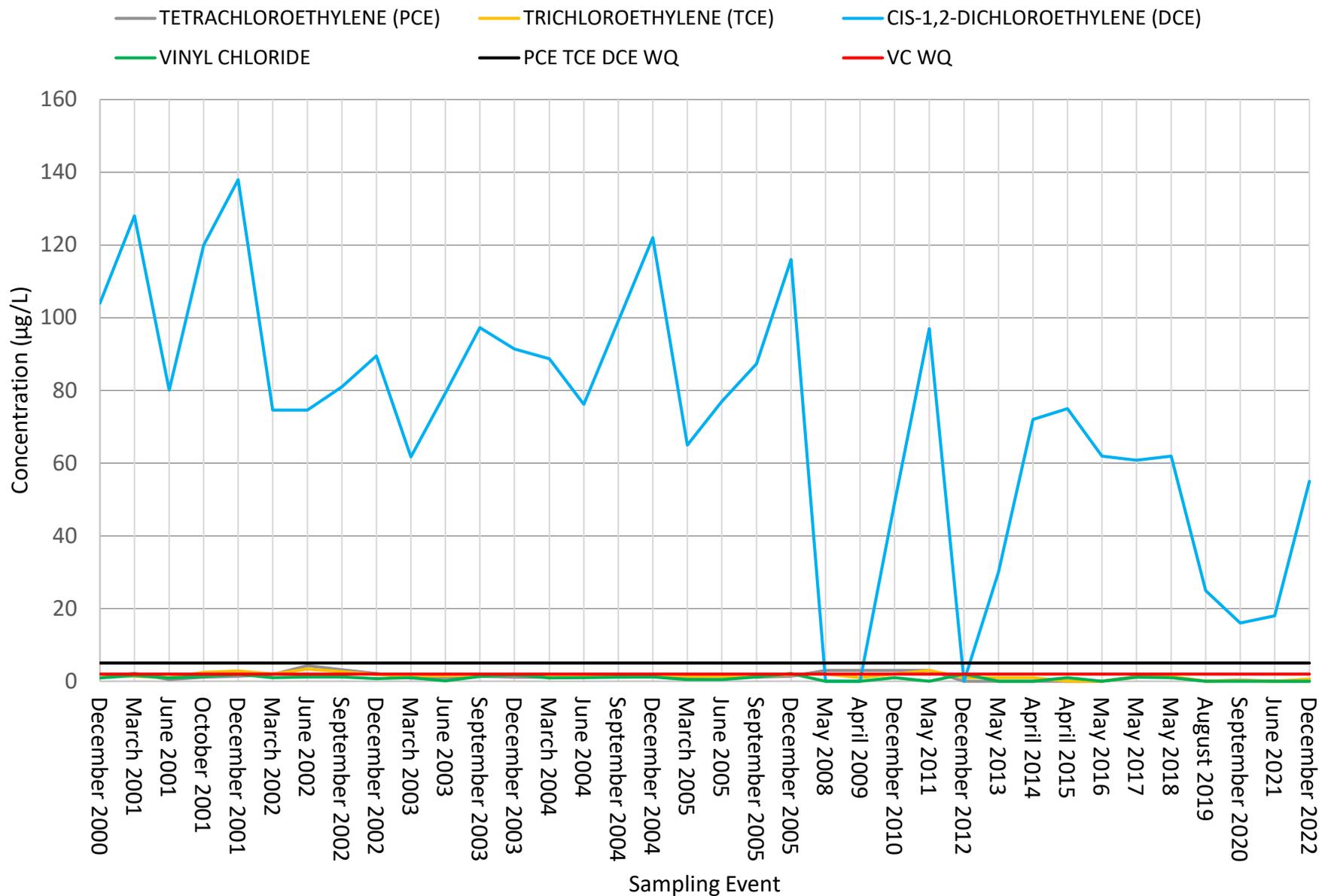


# DGC-6I

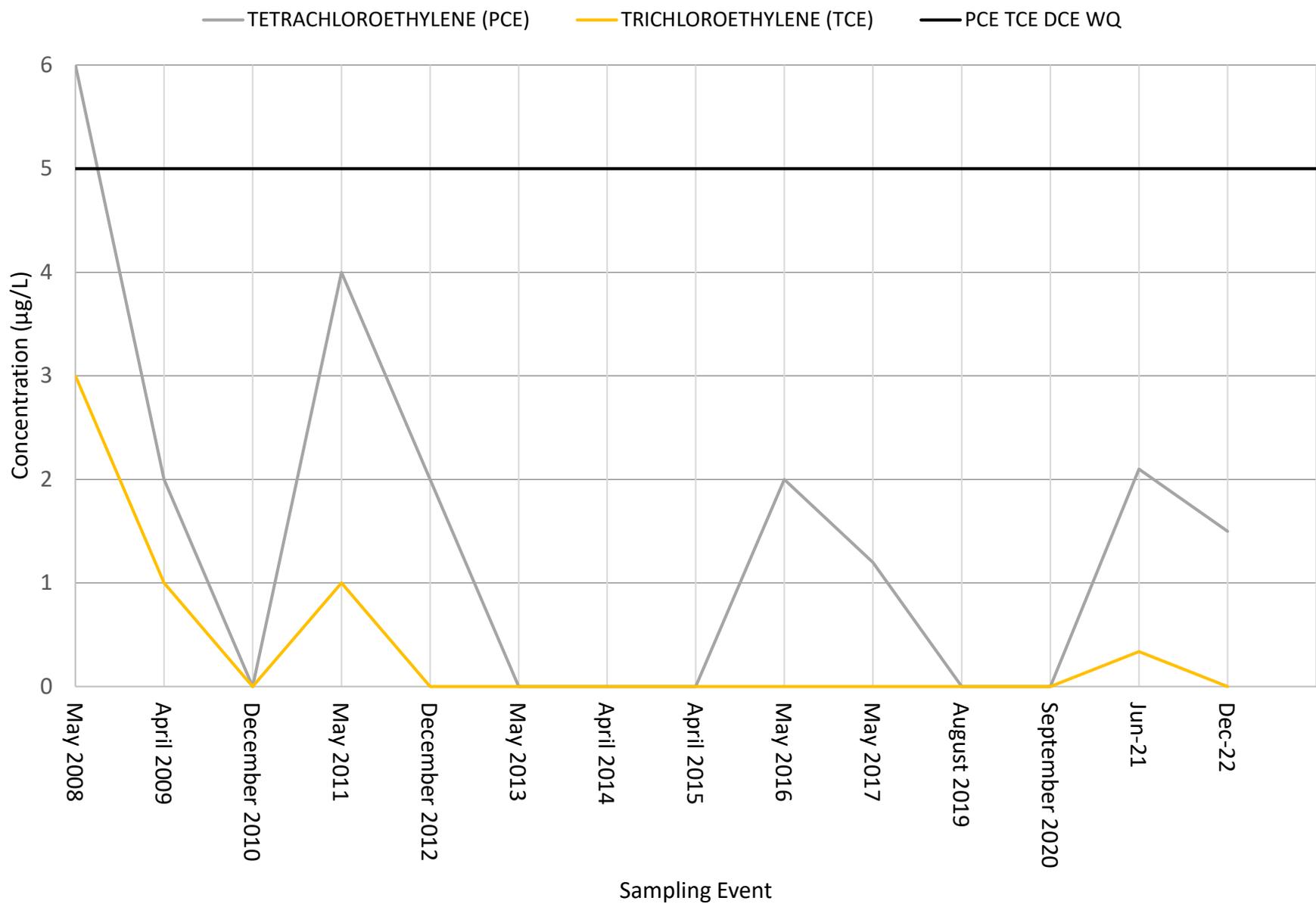
TETRACHLOROETHYLENE (PCE)    TRICHLOROETHYLENE (TCE)    CIS-1,2-DICHLOROETHYLENE (DCE)  
VINYL CHLORIDE    PCE TCE DCE WQ    VC WQ



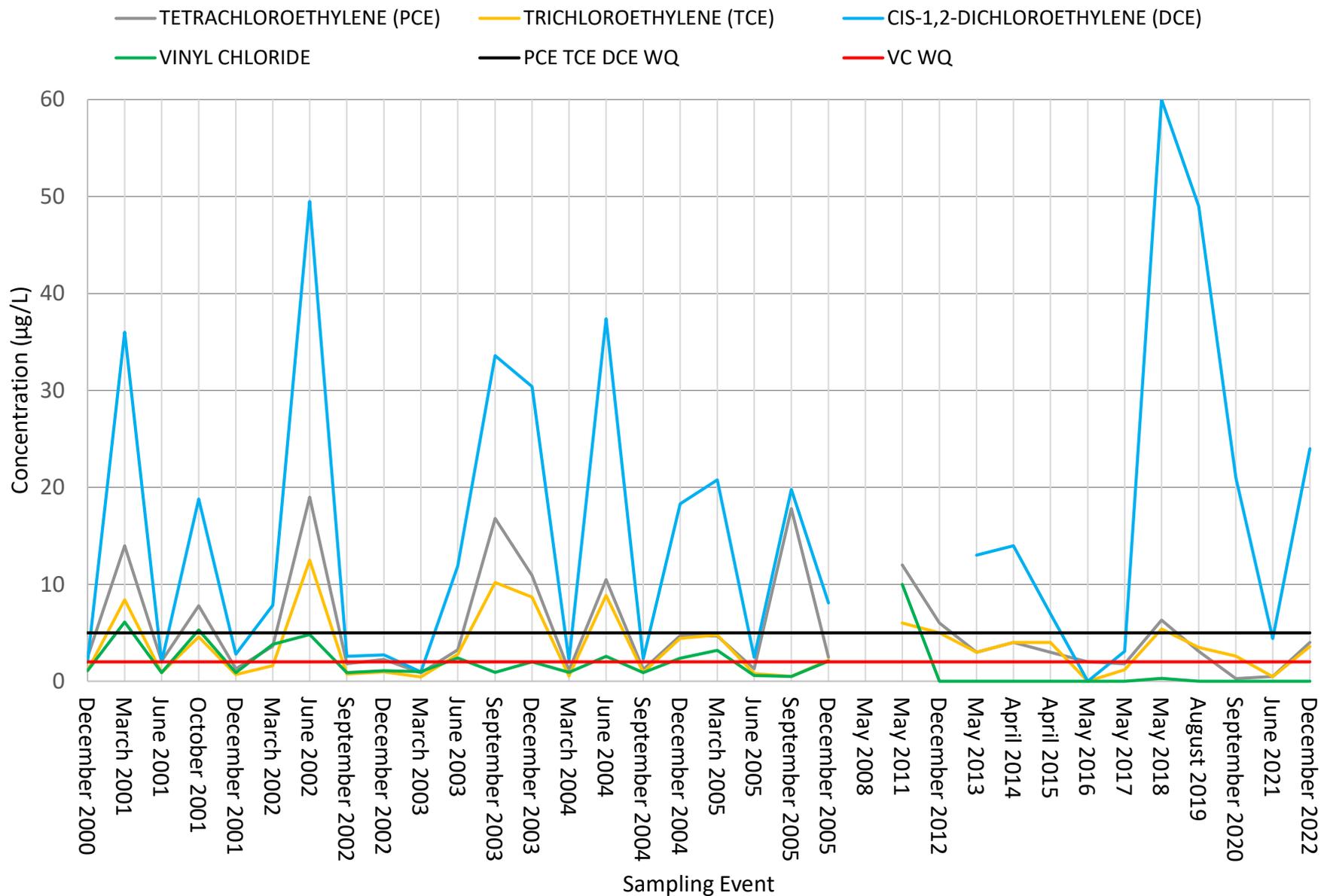
# DGC-71



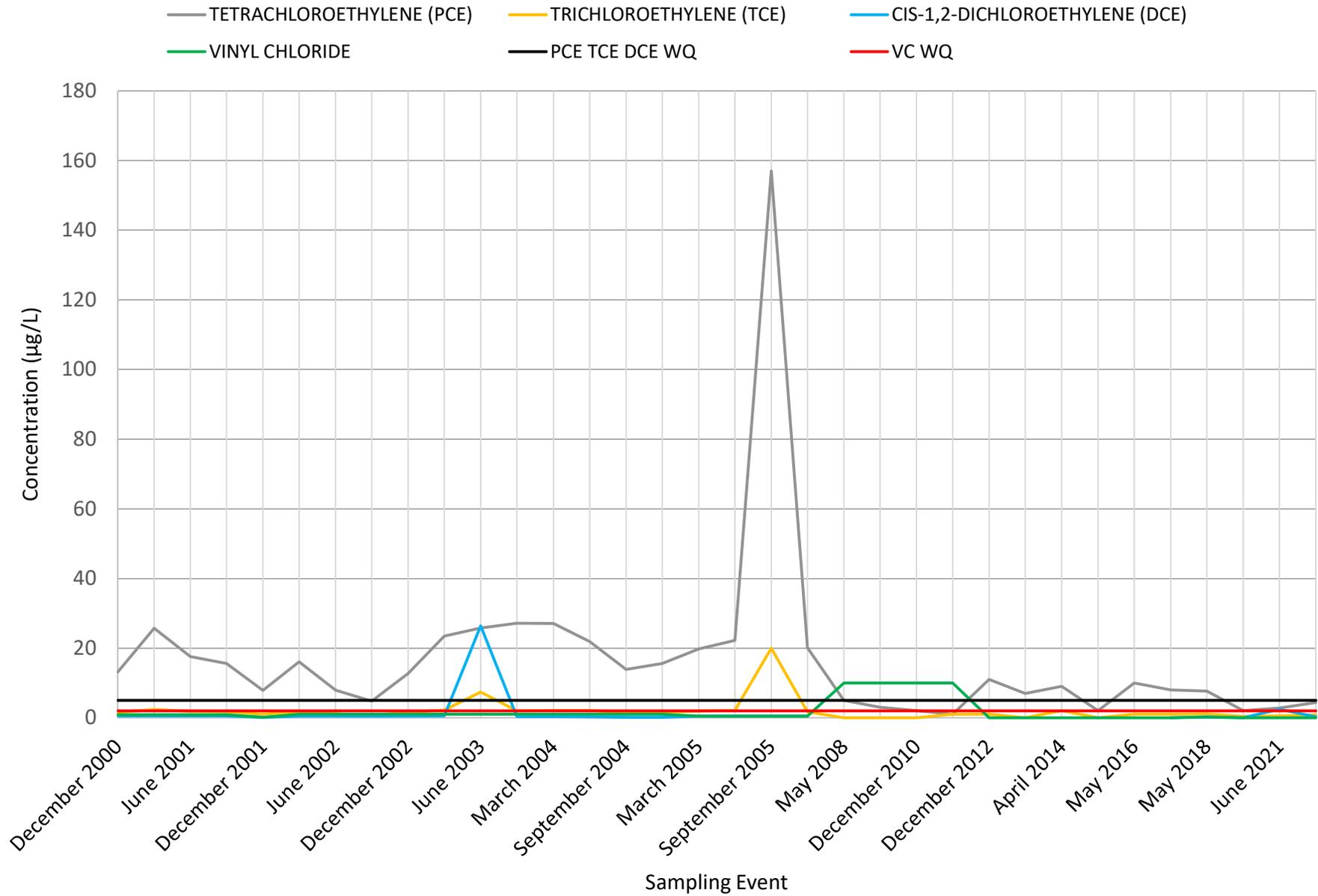
# DGC-8I



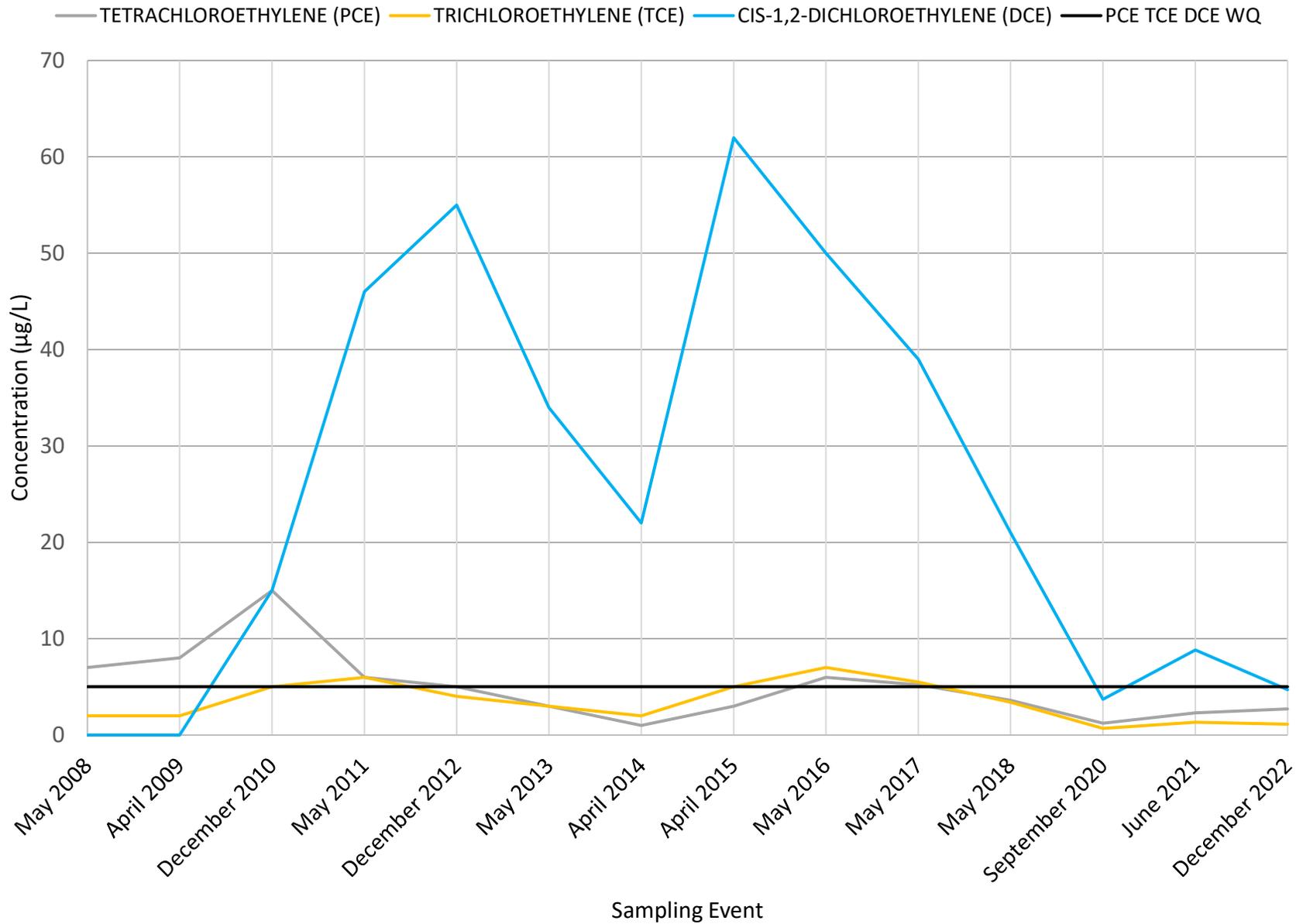
# DGC-9I



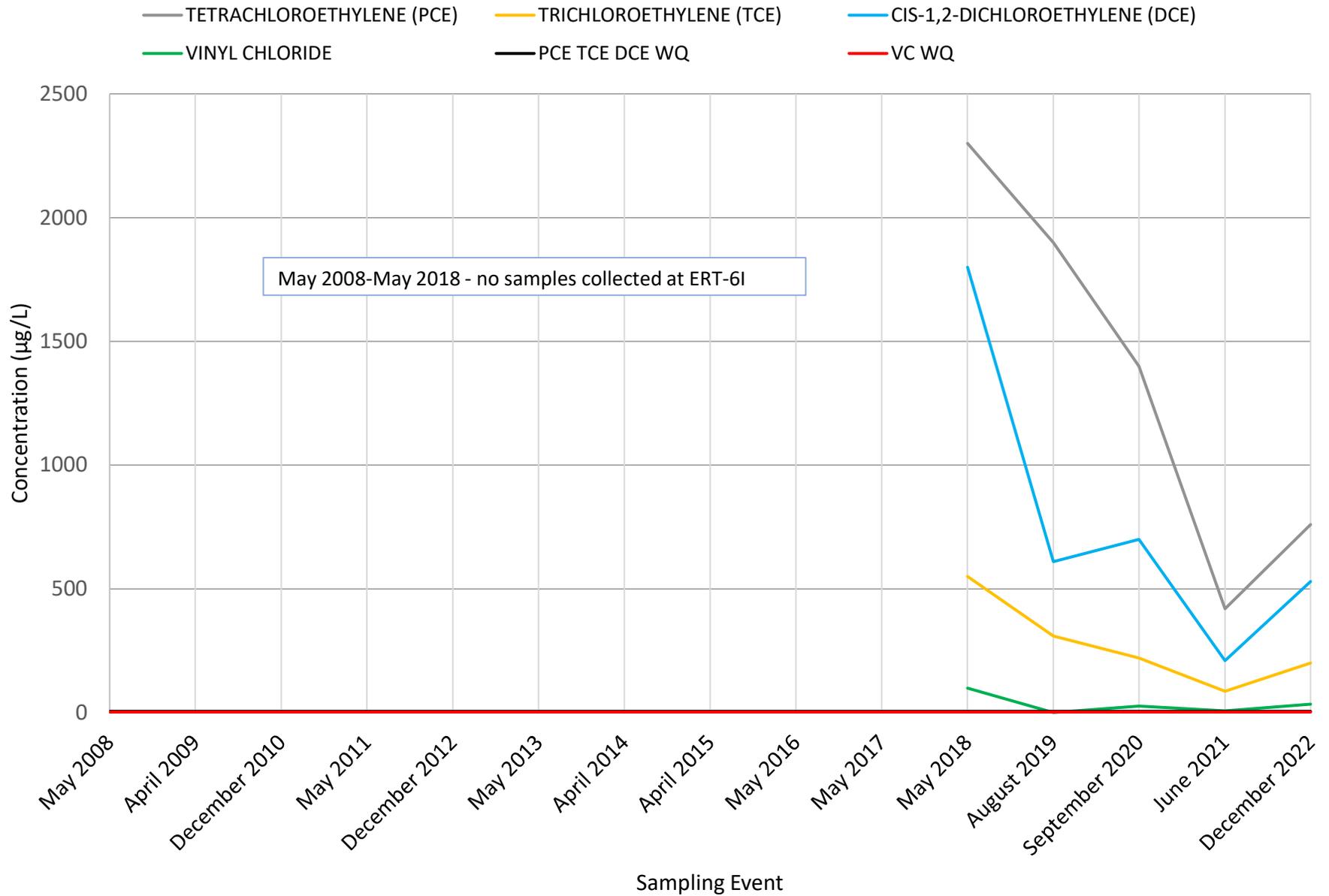
# DGC-16I



# DGC-17I

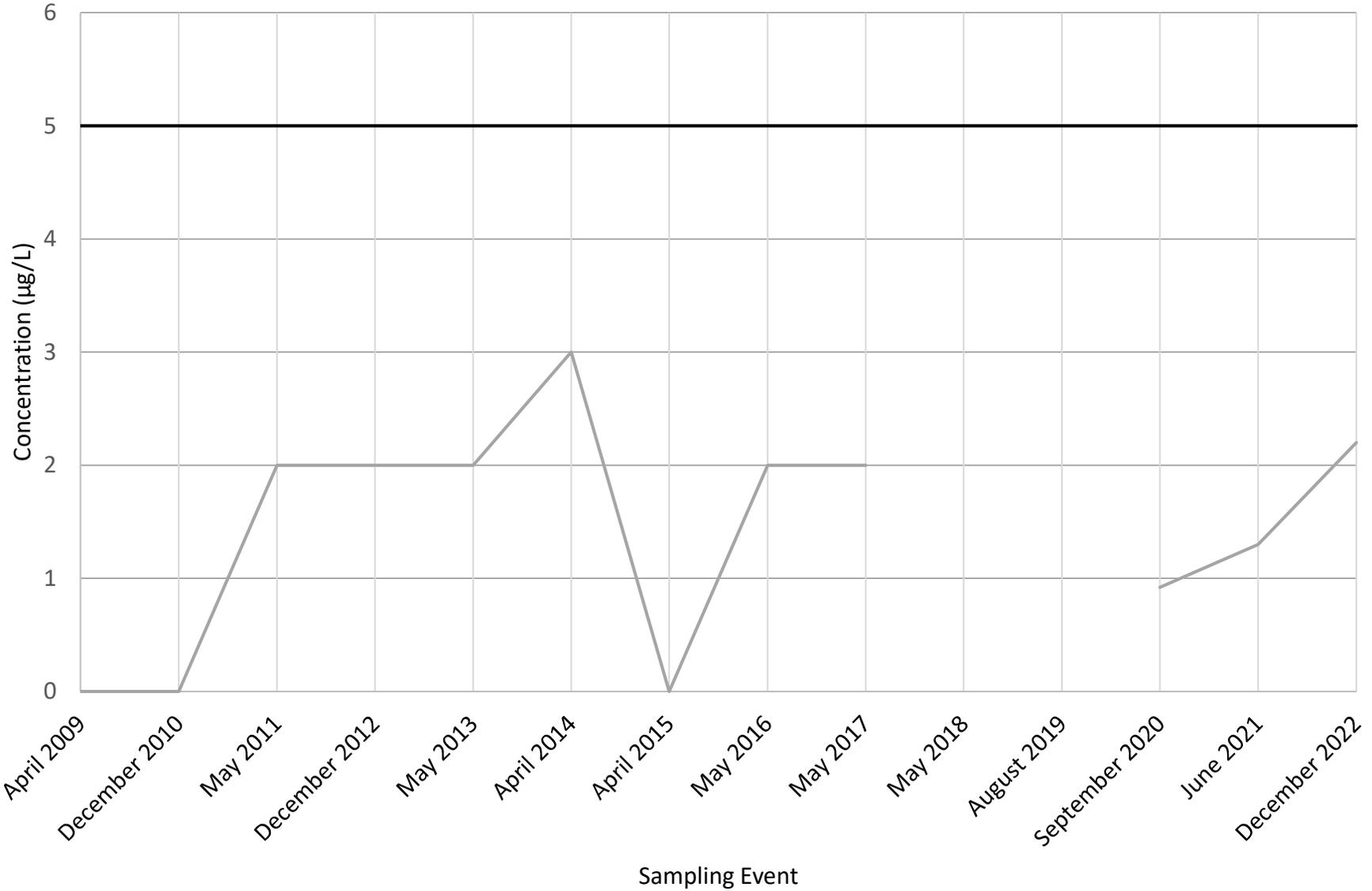


# ERT-6I

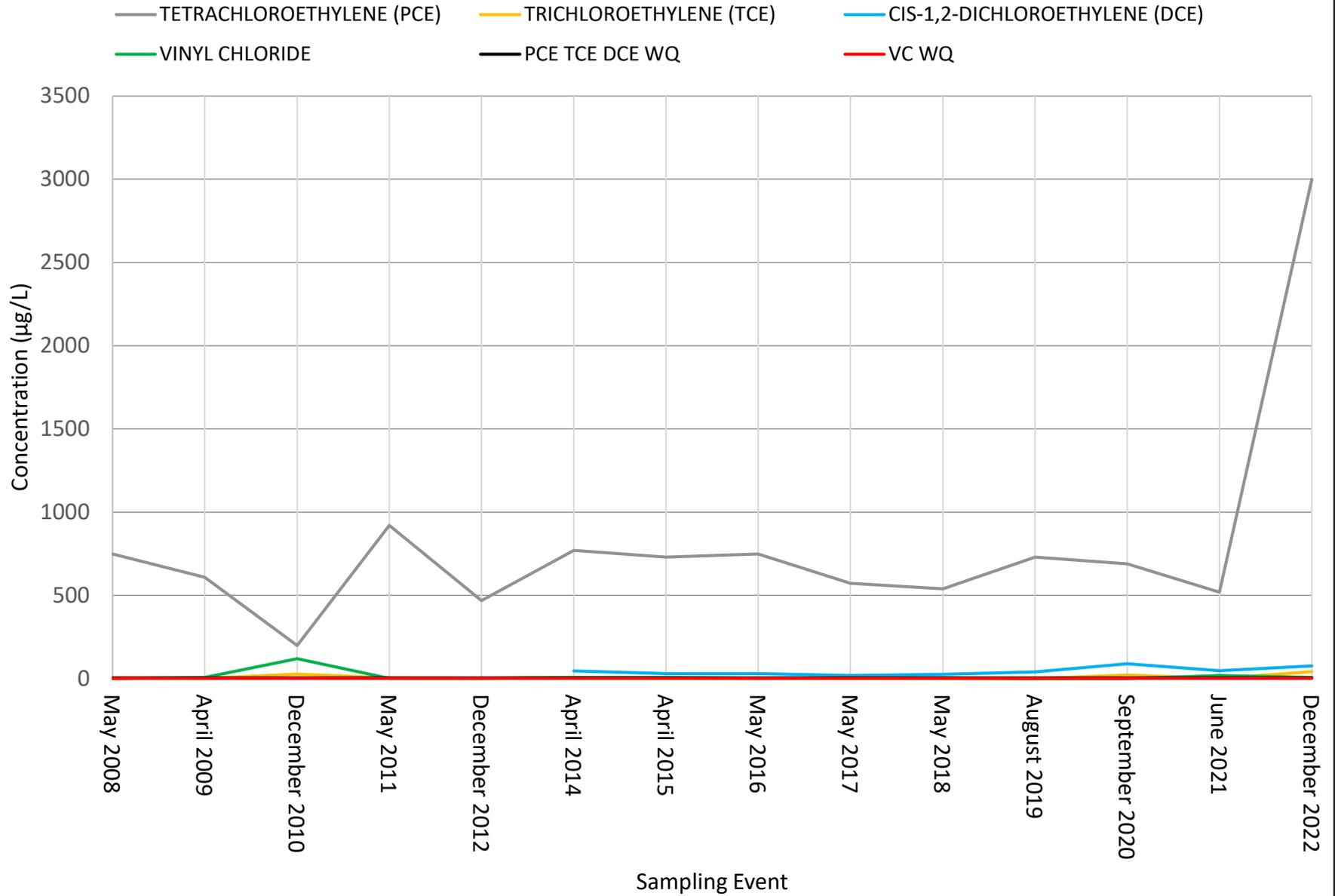


# ERT-8I

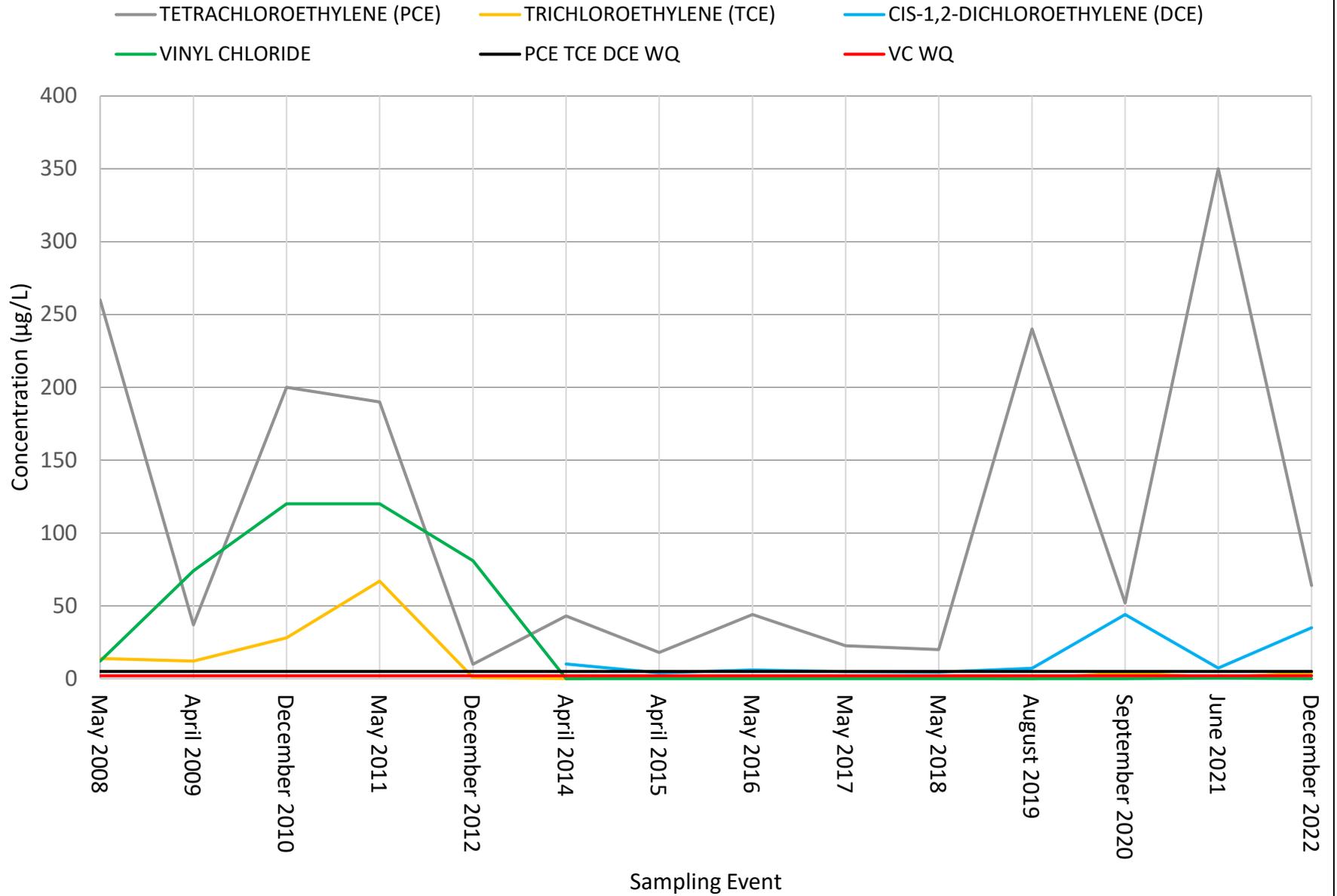
— TETRACHLOROETHYLENE (PCE) — PCE TCE DCE WQ



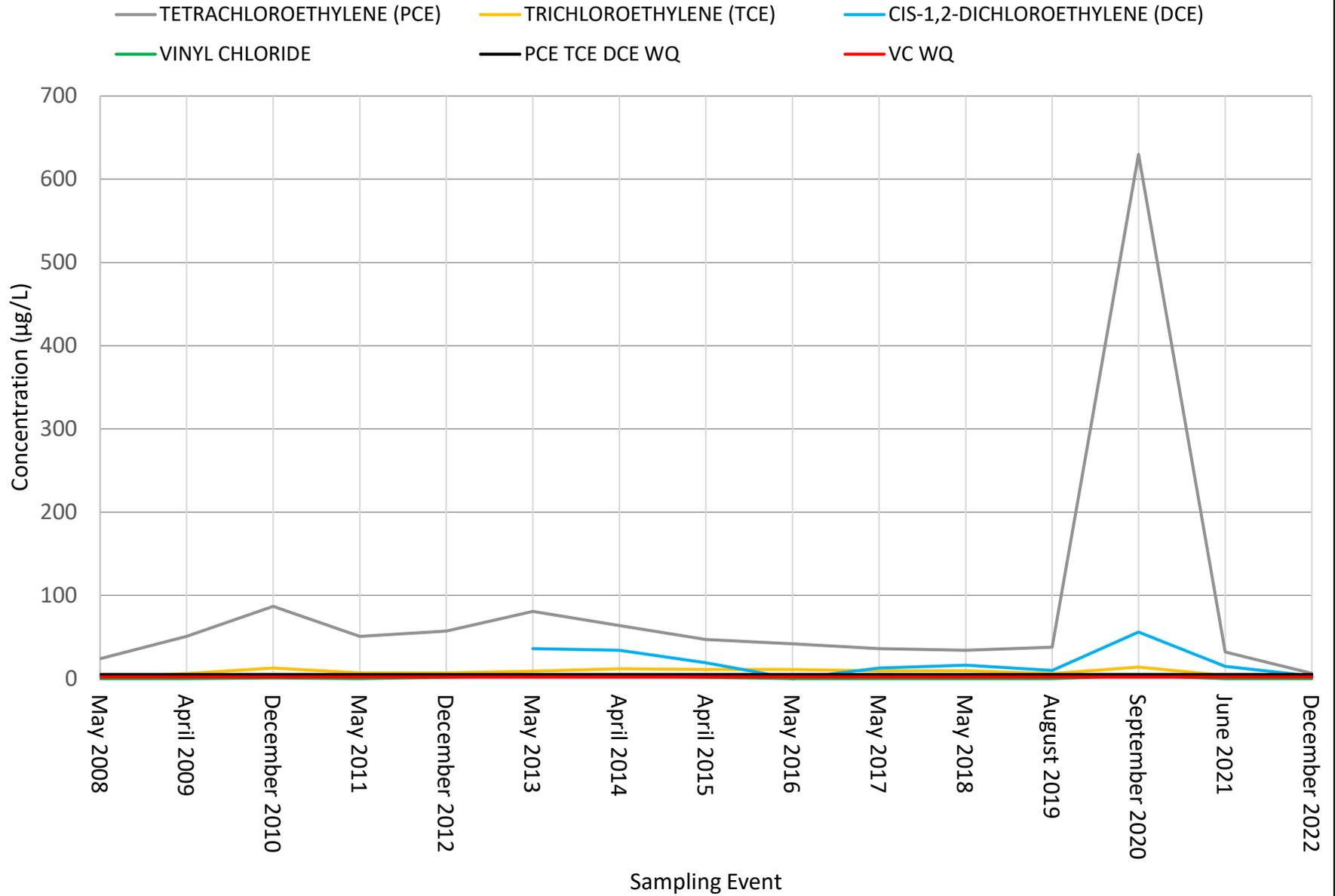
# ERT-EW-5



# ERT-EW-6

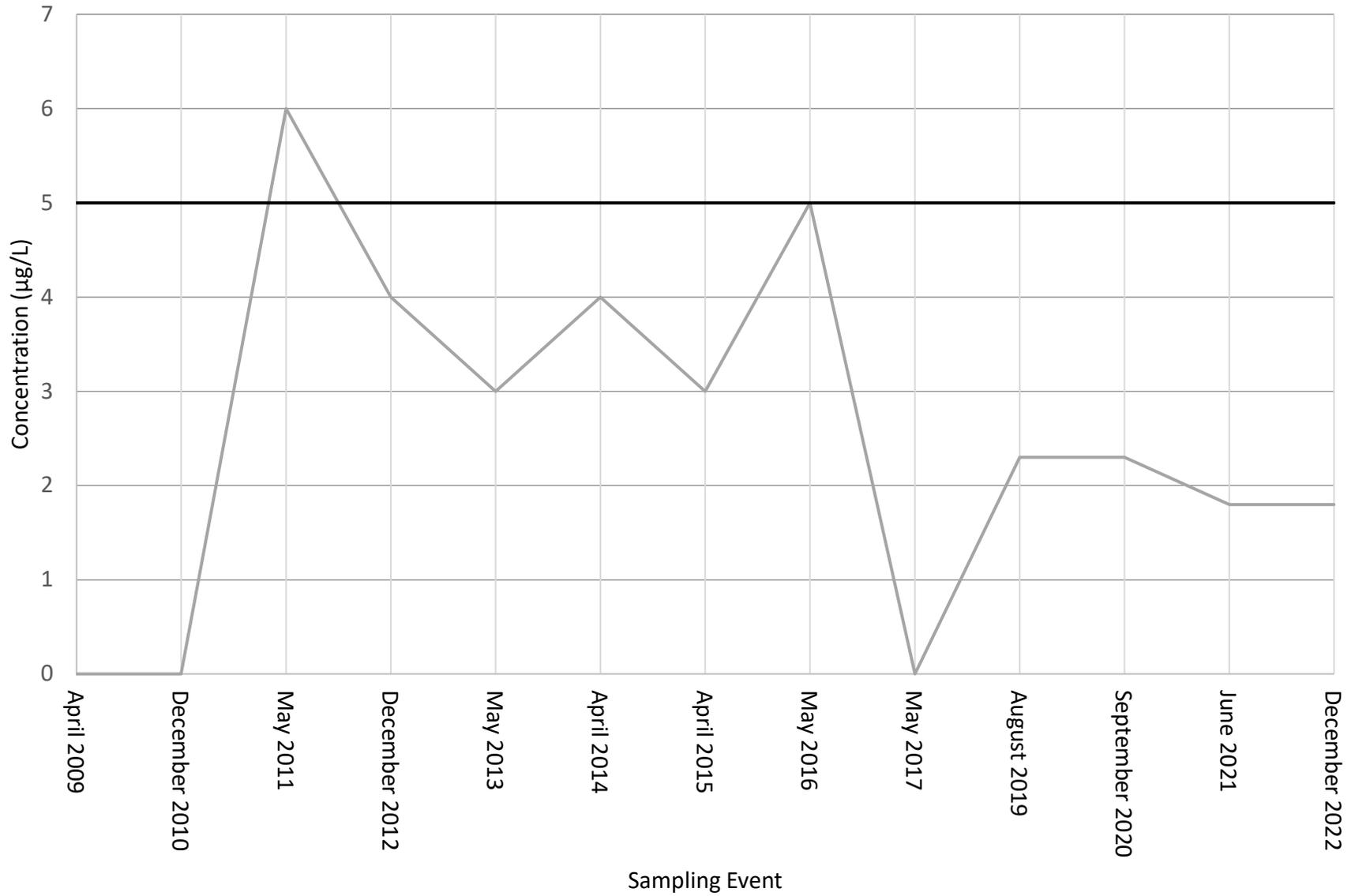


# ERT-EW-7

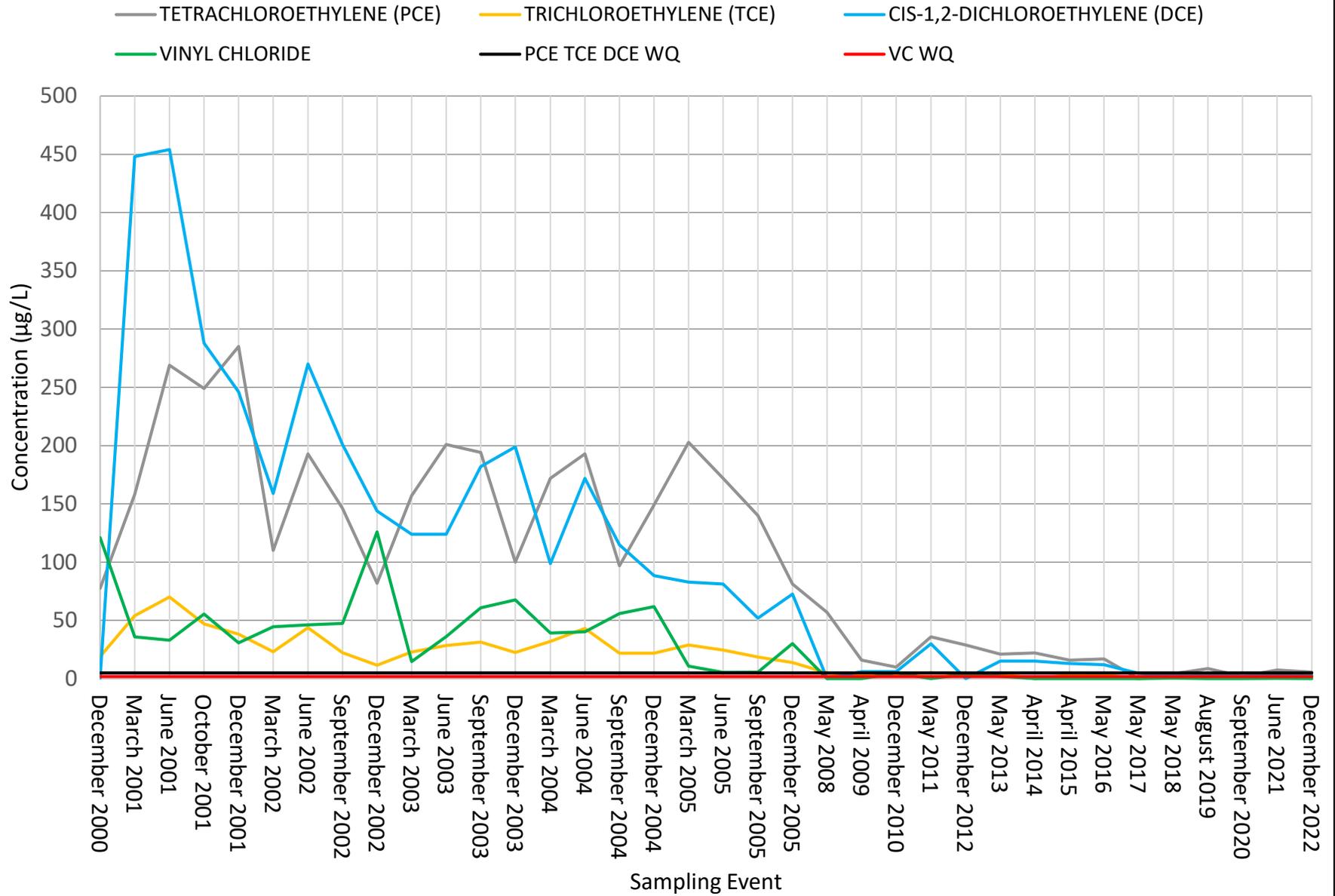


# GMS-02

— TETRACHLOROETHYLENE (PCE) — PCE TCE DCE WQ

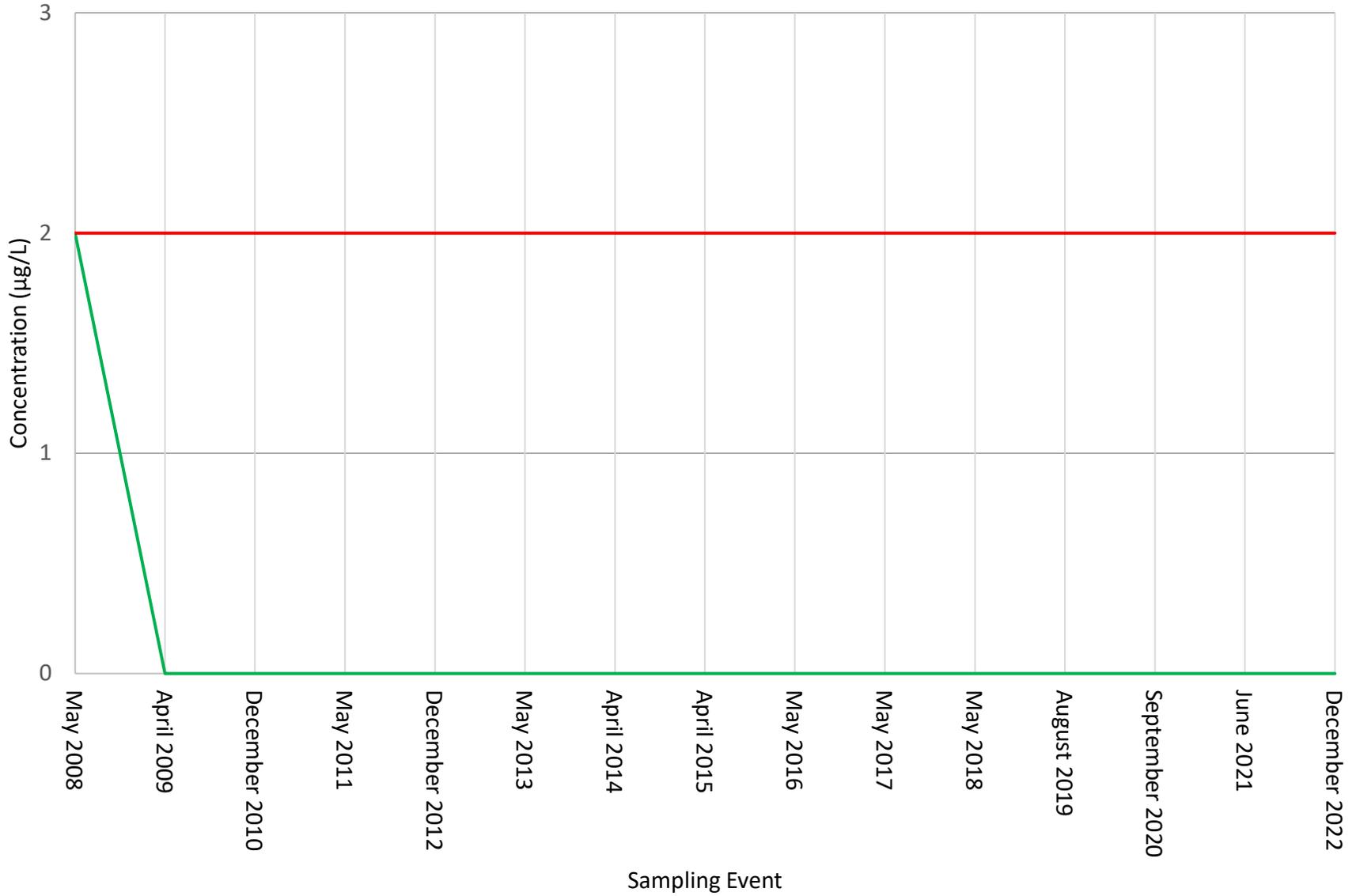


# TH-7



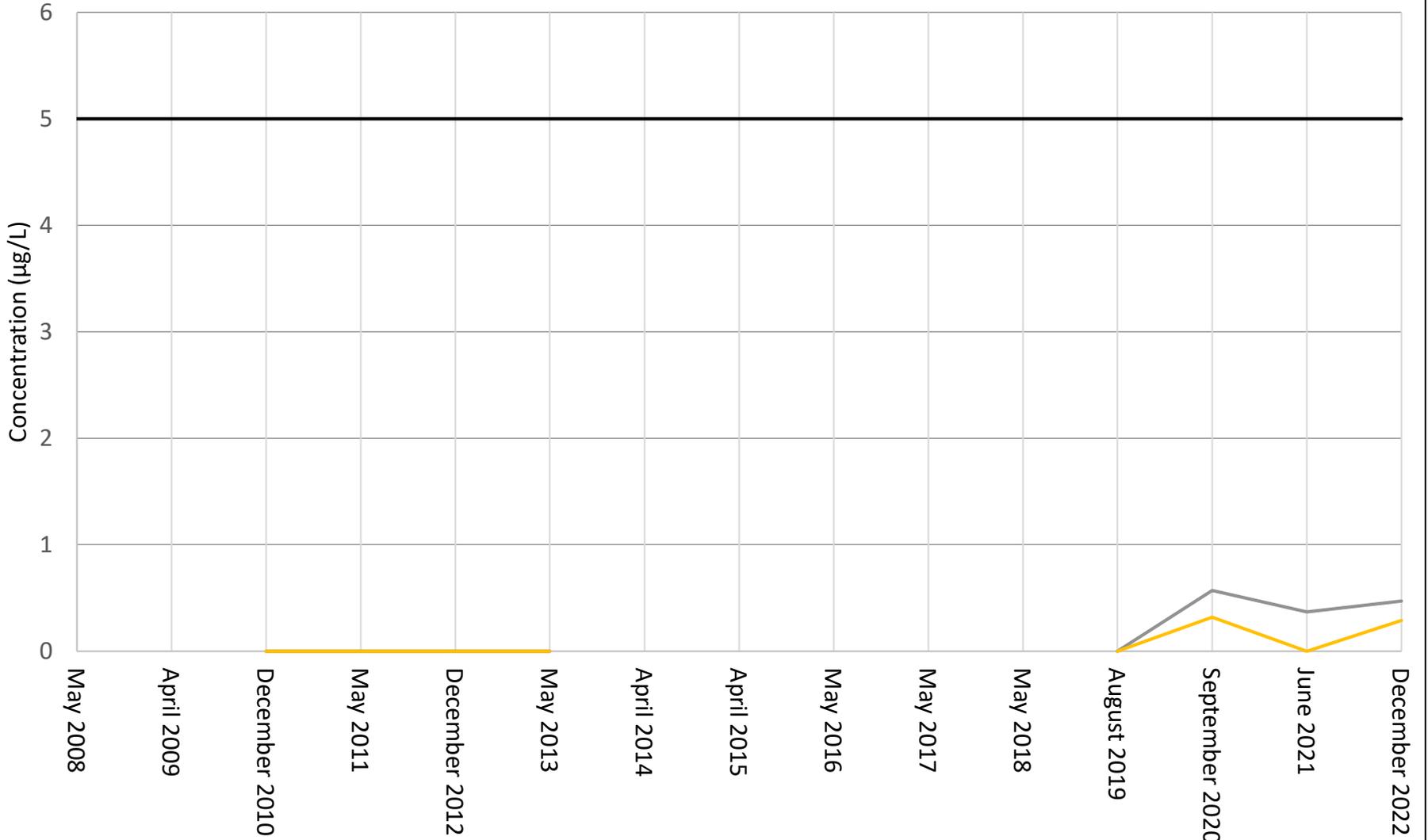
# TH-9

VINYL CHLORIDE VC WQ



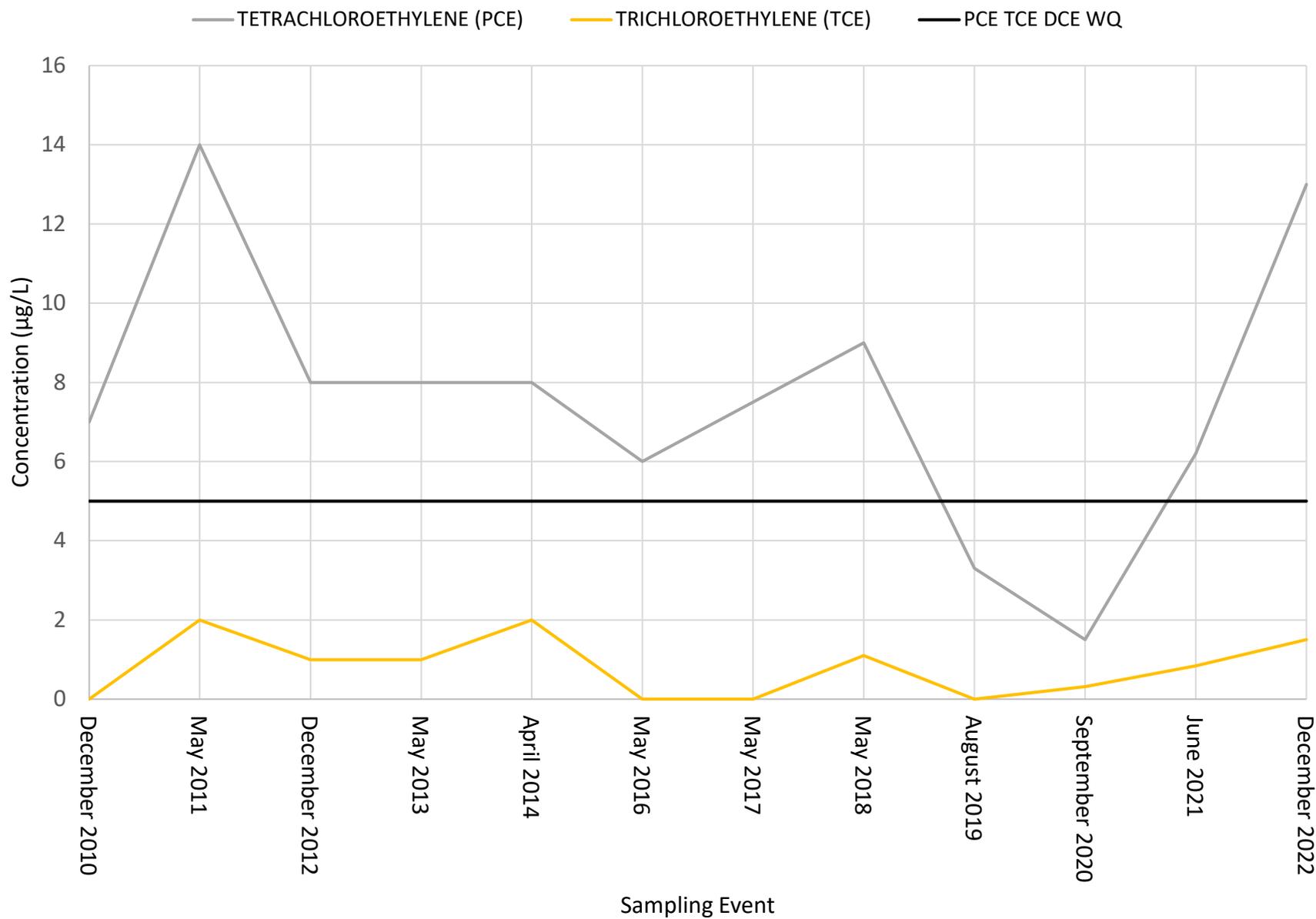
# CDM-2

— TETRACHLOROETHYLENE (PCE)    — TRICHLOROETHYLENE (TCE)    — PCE TCE DCE WQ



Sampling Event

# CDM-3

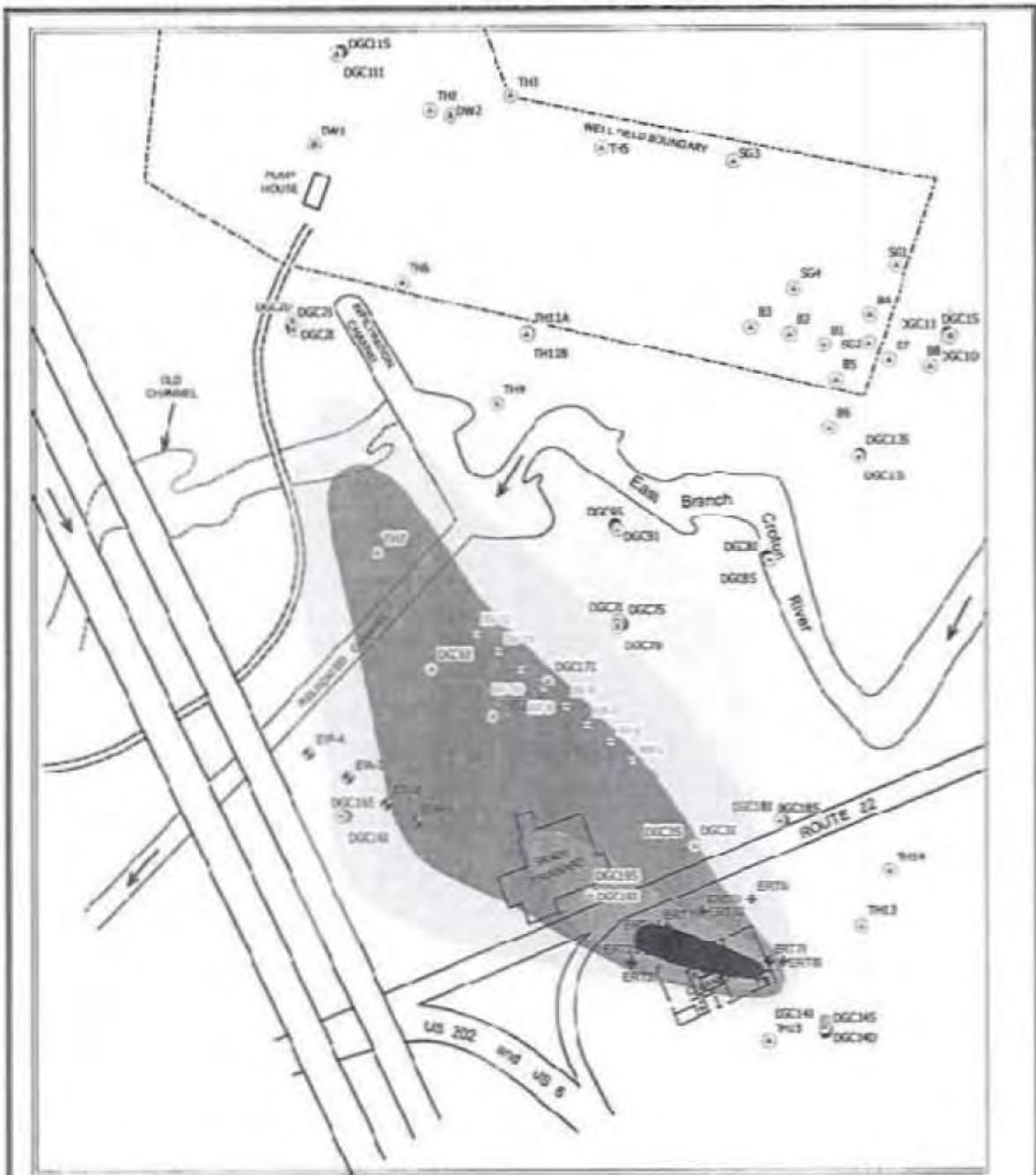




# Appendix G Historical Isoconcentration Plots for PCE, TCE, cDCE, and VC through 2023

# Historical Tetrachloroethylene (PCE) Isoconcentration Plots

September 2006 through



Map created using site survey/diagram data.

Map Creation Date: September 2006  
 Coordinate System: New York State Plane East  
 FIPS: 3101  
 Datum: NAD83  
 Units: Feet



**Legend**

- Brewer Wells
- Shallow
- × Intermediate
- ⊕ Deep
- ⤴ Extraction
- ⊖ Injection
- ⊕ HYDRAKED MONITOR WELLS

**Schematic Concentrations (µg/L)**

Lightest shade	>1
Light shade	10
Medium shade	100
Dark shade	1000
Darkest shade	10000

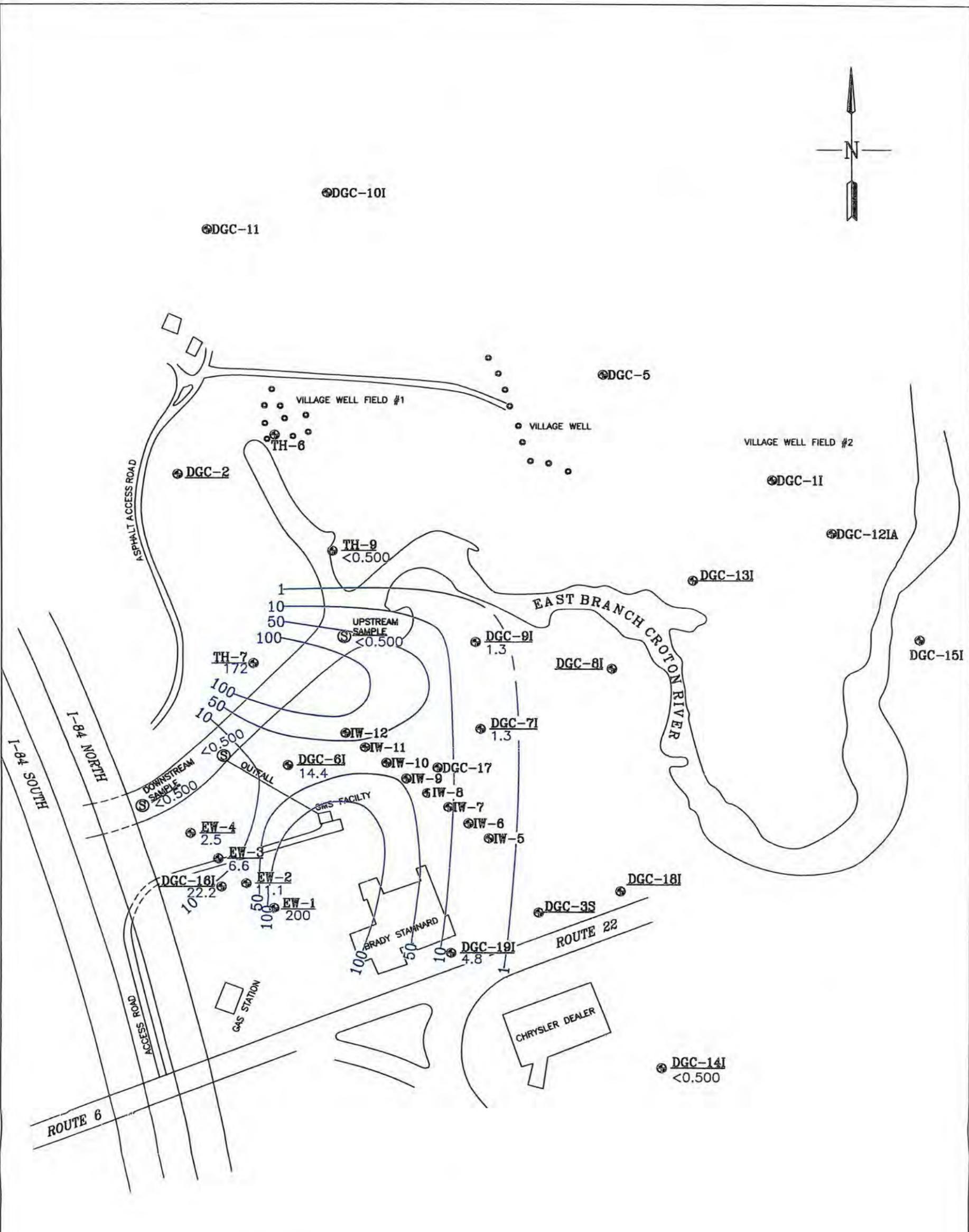
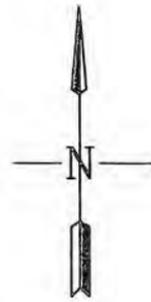


**Figure 3**  
 Schematic Total CVOC Plume,  
 Data Combined from June 2005  
 and September 2006 Sampling  
 Brewer Well Field Site  
 Brewer, NY  
 September 2006

U.S. EPA Environmental Response Team  
 Response Engineering and Analytical Contract  
 EP-C-04-032  
 W.A. # 0-170

Data: g:\arch\projects\viac\100-170  
 M&D file: g:\arch\projects\viac\4\ENC00170\_Brewer\170\_CVOC\_Plume



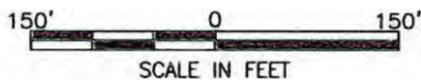


**LEGEND**

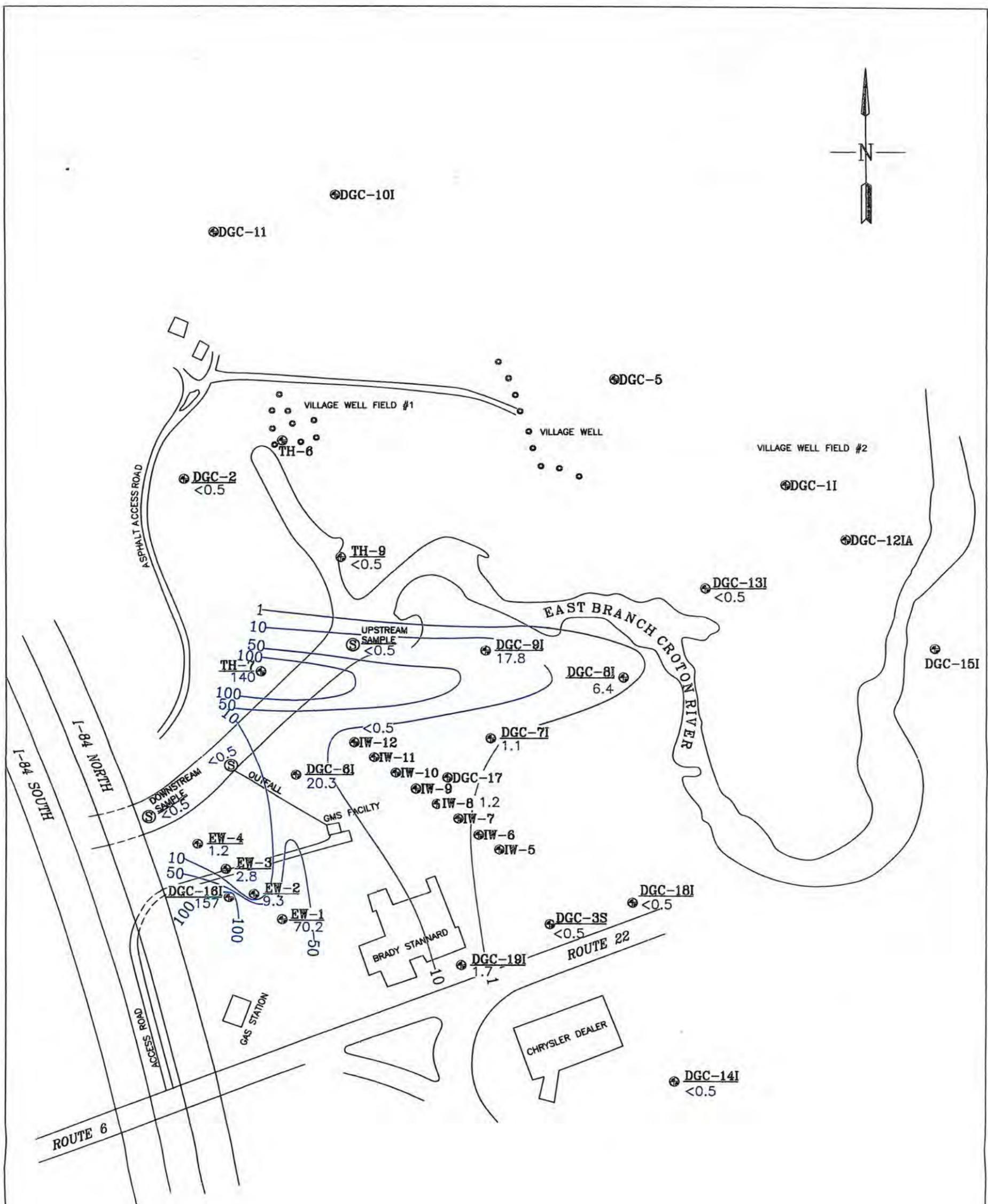
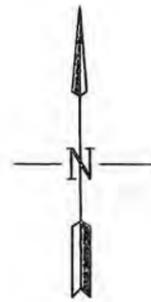
- DGC-7I**  
1.3  
MONITORING WELL LOCATION  
TETRACHLOROETHENE CONCENTRATION (µg/L)
- 10  
ISOCONCENTRATION LINE (DASHED WHERE INFERRED)

**NOTES:**

1. UNEVEN CONTOUR INTERVALS WERE USED TO MORE ACCURATELY DEPICT THE CONTAMINANT PLUME.
2. ORIGINAL DRAWING PROVIDED BY SEVENSON ENVIRONMENTAL SERVICES, INC.



<b>SEVENSON</b>			
BREWSTER WELL FIELD			
<b>TETRACHLOROETHENE ISOCONCENTRATION CONTOUR MAP (JUNE 2005)</b>			
drawn <i>DAK</i>	checked <i>MJR</i>	approved <i>RCC</i>	figure no.
date 07/26/05	date 07/25/05	date 07/25/05	<b>5</b>
job no. 01-1633-04-2388-200	file no. 1548-005.dwg		
 <b>Science Applications International Corporation</b> <small>From Science to Solutions™</small>			



**LEGEND**

- DGC-7I**  
1.1  
MONITORING WELL LOCATION  
TETRACHLOROETHENE CONCENTRATION (µg/L)
- 10**  
ISOCONCENTRATION LINE (DASHED WHERE INFERRED)

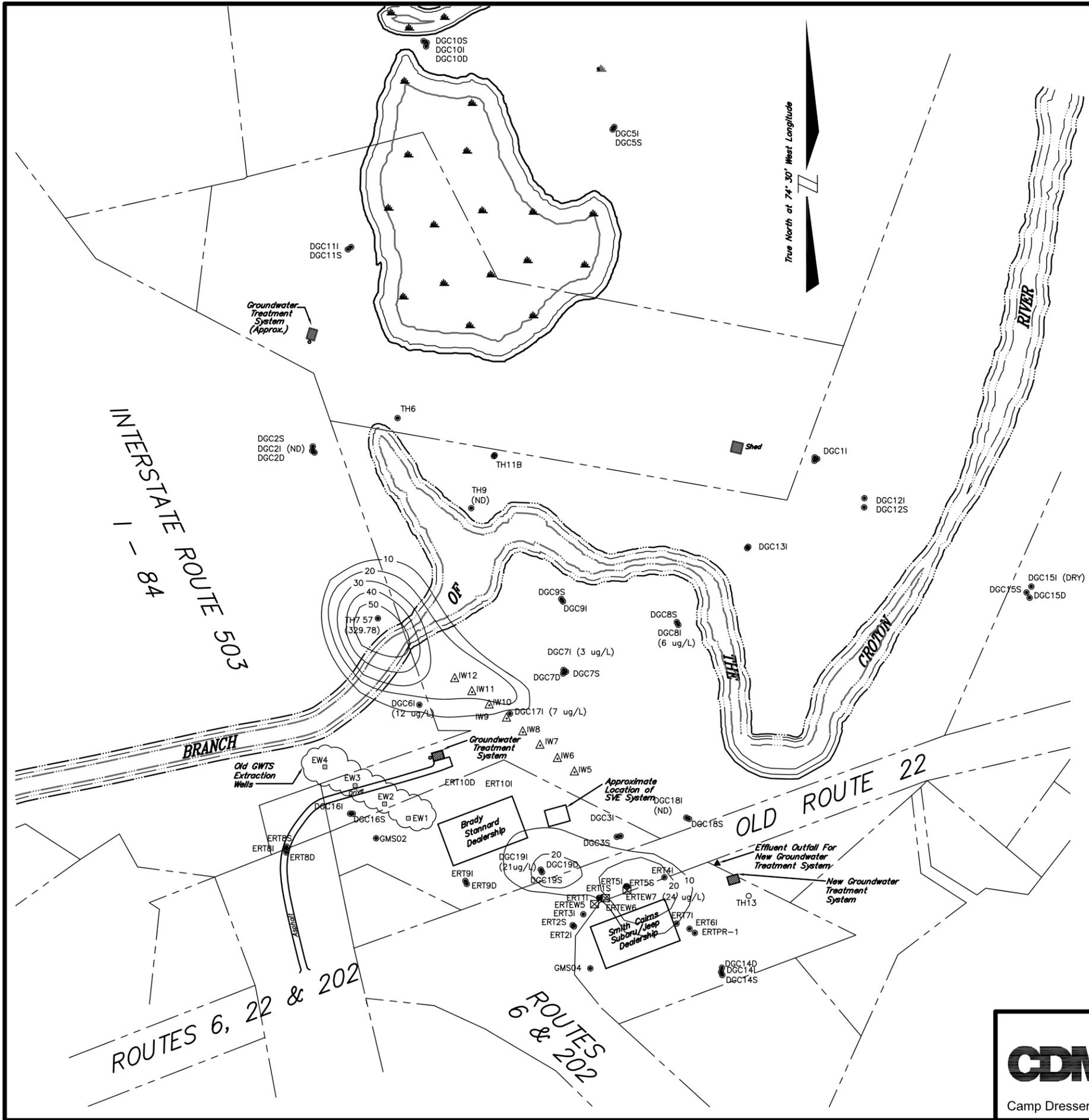
**NOTES:**

1. UNEVEN CONTOUR INTERVALS WERE USED TO MORE ACCURATELY DEPICT THE CONTAMINANT PLUME.
2. ORIGINAL DRAWING PROVIDED BY SEVENSON ENVIRONMENTAL SERVICES, INC.



<b>SEVENSON</b>			
BREWSTER WELL FIELD			
<b>TETRACHLOROETHENE ISOCONCENTRATION CONTOUR MAP (SEPTEMBER 2005)</b>			
drawn <i>DAK</i>	checked <i>MJR</i>	approved <i>RCC</i>	5
date 11/16/05	date 11/16/05	date 11/16/05	
job no. 01-1833-04-2388-200	file no. 1548-005.dwg		

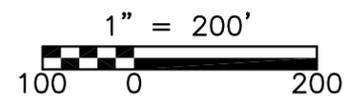




### LEGEND

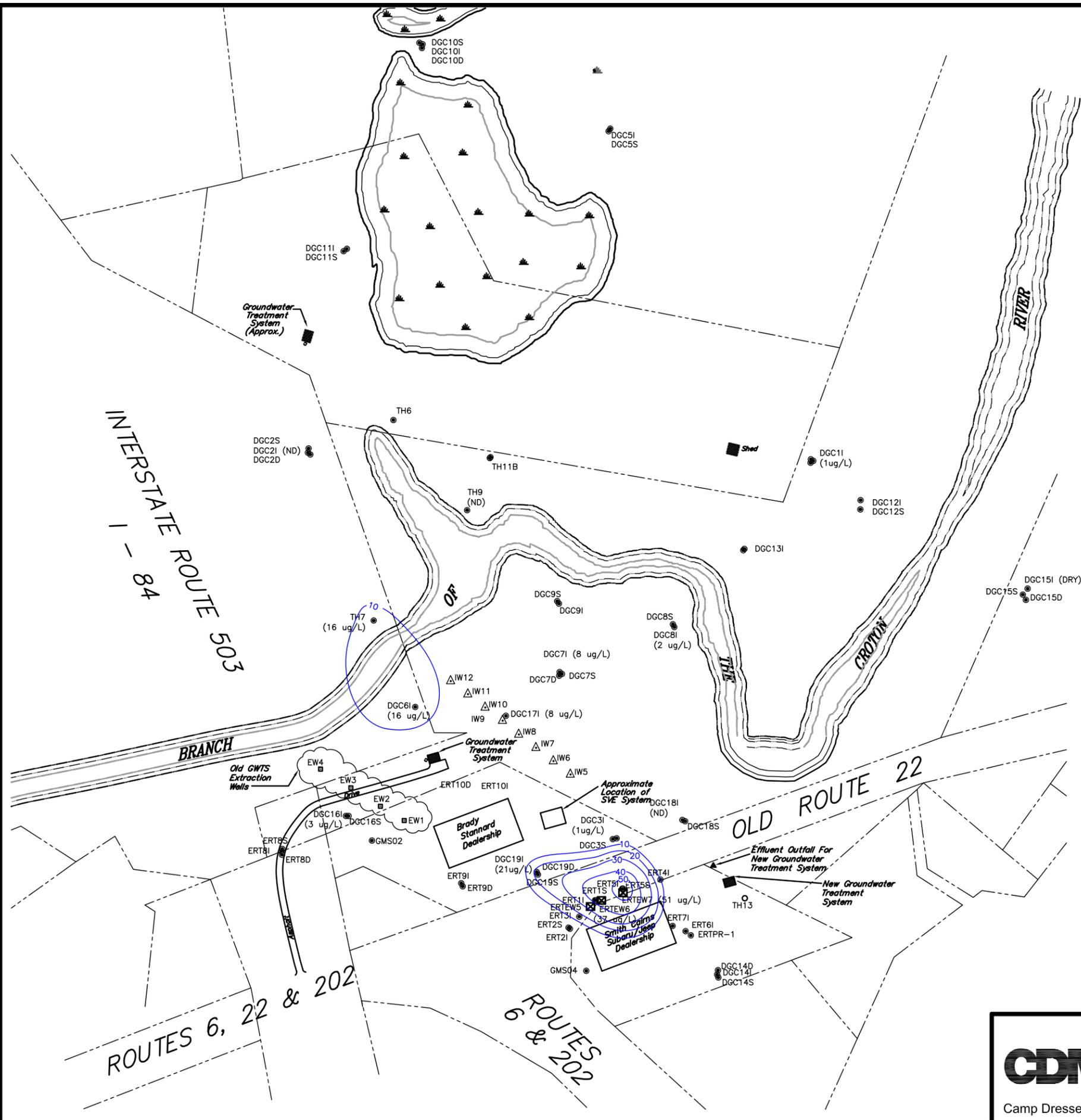
- DGC51 (330.49) Monitoring Well with Designation (Groundwater Elevation, FT BGS)
- EW1 Old GWTS Extraction Well with Designation
- △ IW1 Old GWTS Injection Well with Designation
- ⊠ ERT-EW5 New GWTS Extraction Well with Designation
- - - - - Approximate Property Line
- 30 — Isoconcentration Line

*This map was prepared for the exclusive use of and is certified only to:  
SEVENSON ENVIRONMENTAL SERVICES, INC.*



Camp Dresser & McKee	<b>BREWSTER VILLAGE WELL FIELD</b>	<b>TETRACHLOROETHENE ISOCONCENTRATION INTERMEDIATE WELLS</b>	<b>FIGURE NO.</b>
		MAY 2008	5

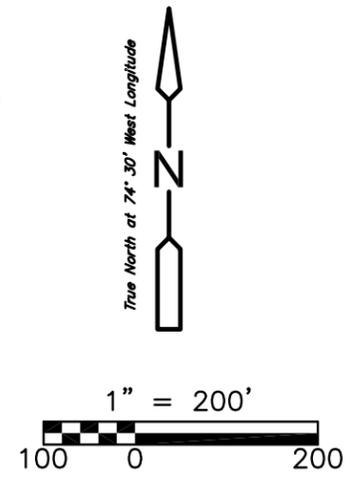
C:\CAD\BREWSTER\ FIG 5 01/19/10 18:03 Koskar



**LEGEND**

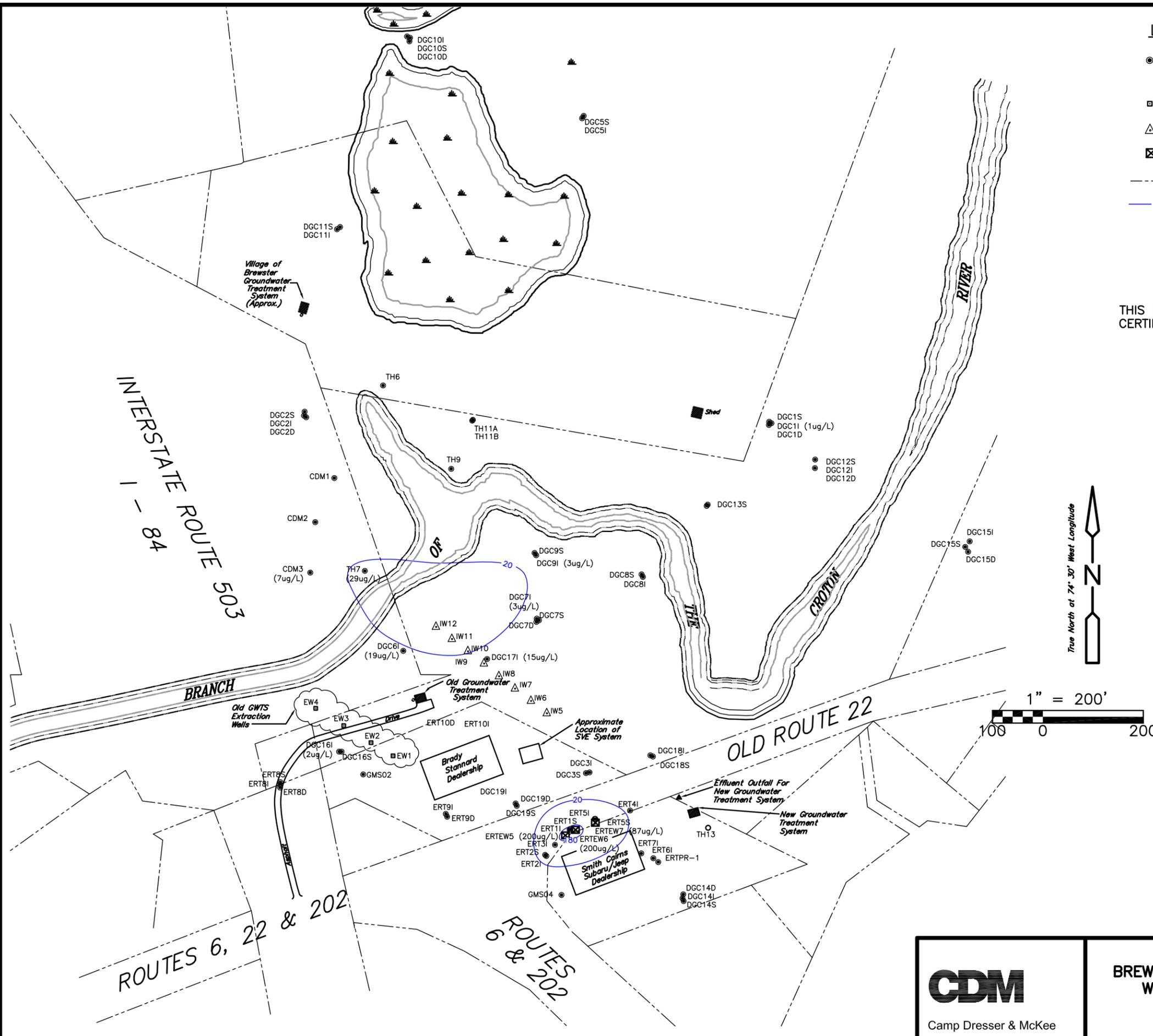
- DGC51 (8 ug/L) MONITORING WELL WITH DESIGNATION (ISOCONCENTRATION, ug/L)
- EW1 OLD GWTS EXTRACTION WELL WITH DESIGNATION
- △ IW1 OLD GWTS INJECTION WELL WITH DESIGNATION
- ⊠ ERT-EW5 NEW GWTS EXTRACTION WELL WITH DESIGNATION
- APPROXIMATE PROPERTY LINE
- 30— ISOCONCENTRATION CONTOUR LINE

THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.



 Camp Dresser & McKee	BREWSTER VILLAGE WELL FIELD	TETRACHLOROETHENE ISOCONCENTRATION INTERMEDIATE WELLS	FIGURE NO.
		APRIL 2009	5

C:\CAD\BREWSTER\ FIG 5 01/19/10 18:03 Koskar



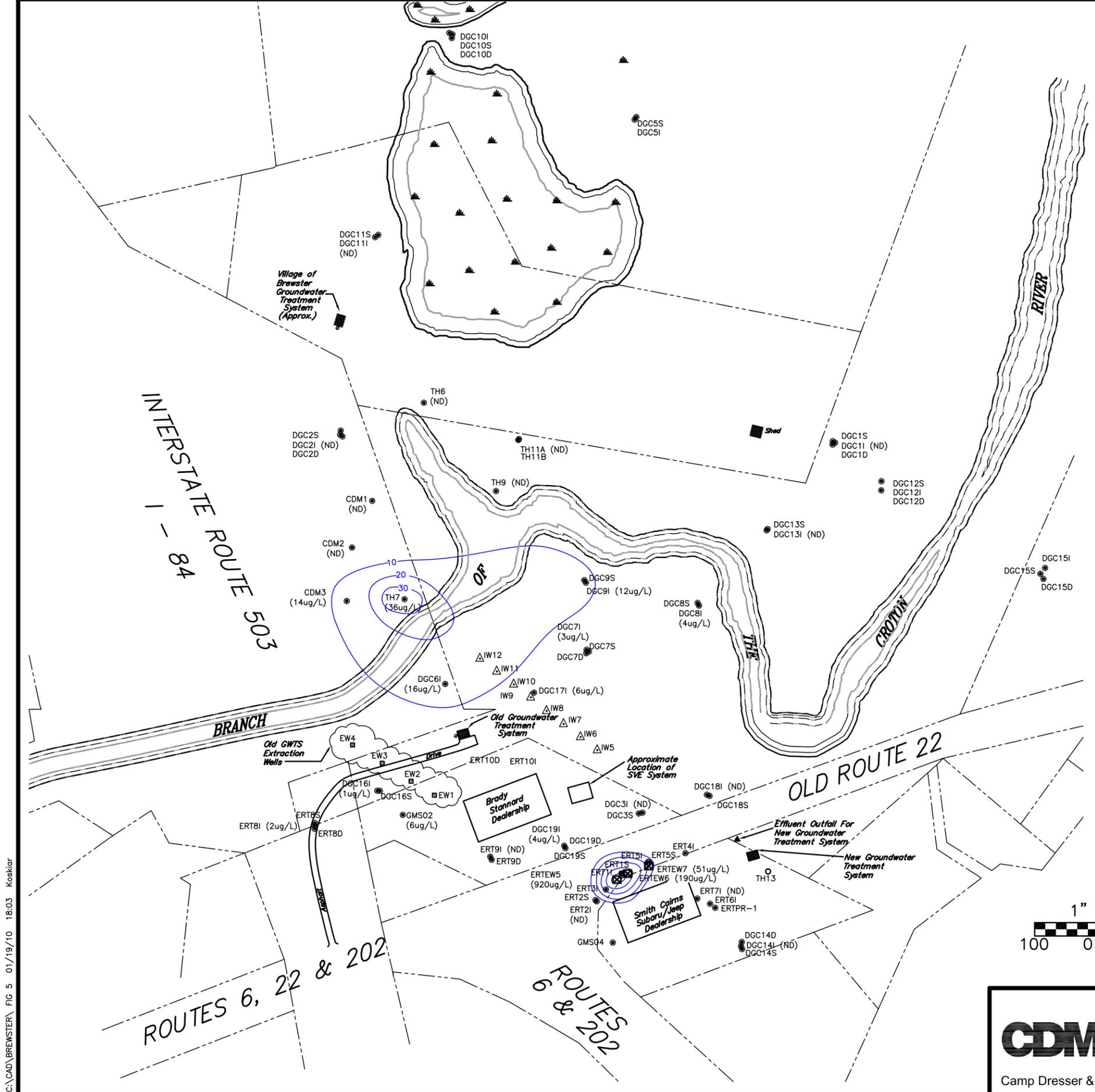
**LEGEND**

- DGC61 (19 ug/L) MONITORING WELL WITH DESIGNATION (TETRACHLOROETHENE CONCENTRATION, ug/L)
- EW1 OLD GWTS EXTRACTION WELL WITH DESIGNATION
- △ IW1 OLD GWTS INJECTION WELL WITH DESIGNATION
- ⊠ ERT-EW5 NEW GWTS EXTRACTION WELL WITH DESIGNATION
- APPROXIMATE PROPERTY LINE
- 20— ISOCONCENTRATION CONTOUR LINE CONTOUR INTERVAL 20 ug/L

THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.

Groundwater Samples Collected 12/27/11-12/29/11			
Well	Tetrachloroethene (ug/L)	1,2-Dichloroethene (total) (ug/L)	Vinyl chloride (ug/L)
DGC-1I	1	ND	ND
DGC-2I	ND	ND	ND
DGC3I	ND	ND	ND
DGC6I	19	27	ND
DGC7I	3	77	1
DGC8I	ND	ND	ND
DGC9I	3	ND	ND
DGC11I	ND	ND	ND
DGC13I	ND	ND	ND
DGC14I	ND	ND	ND
DGC16I	2	ND	ND
DGC17I	15	15	ND
DGC18I	ND	ND	ND
DGC19I	ND	ND	ND
CDM1	ND	ND	ND
CDM2	ND	ND	ND
CDM3	7	ND	ND
ERT-2I	ND	ND	ND
ERT-7I	ND	ND	ND
ERT-8I	ND	ND	ND
ERT-9I	ND	ND	ND
ERT-EW5	200	430	100
ERT-EW6	200	400	100
ERT-EW7	87	42	1
GMS-02	ND	ND	ND
TH-11B	ND	ND	ND
TH-6	ND	ND	ND
TH-7	29	22	5

 Camp Dresser & McKee	<b>BREWSTER VILLAGE WELL FIELD</b>	<b>TETRACHLOROETHENE ISOCONCENTRATION INTERMEDIATE WELLS</b>	FIGURE NO.
		DECEMBER 2010	5

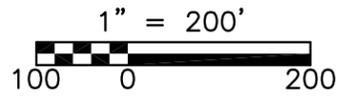


**LEGEND**

- DGC61 (16 ug/L) MONITORING WELL WITH DESIGNATION (TETRACHLOROETHENE CONCENTRATION, ug/L)
- EW1 OLD GWTS EXTRACTION WELL WITH DESIGNATION
- △ IW1 OLD GWTS INJECTION WELL WITH DESIGNATION
- ⊠ ERT-EW5 NEW GWTS EXTRACTION WELL WITH DESIGNATION
- - - - - APPROXIMATE PROPERTY LINE
- 20— ISOCONCENTRATION CONTOUR LINE CONTOUR INTERVAL 20 ug/L

THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.

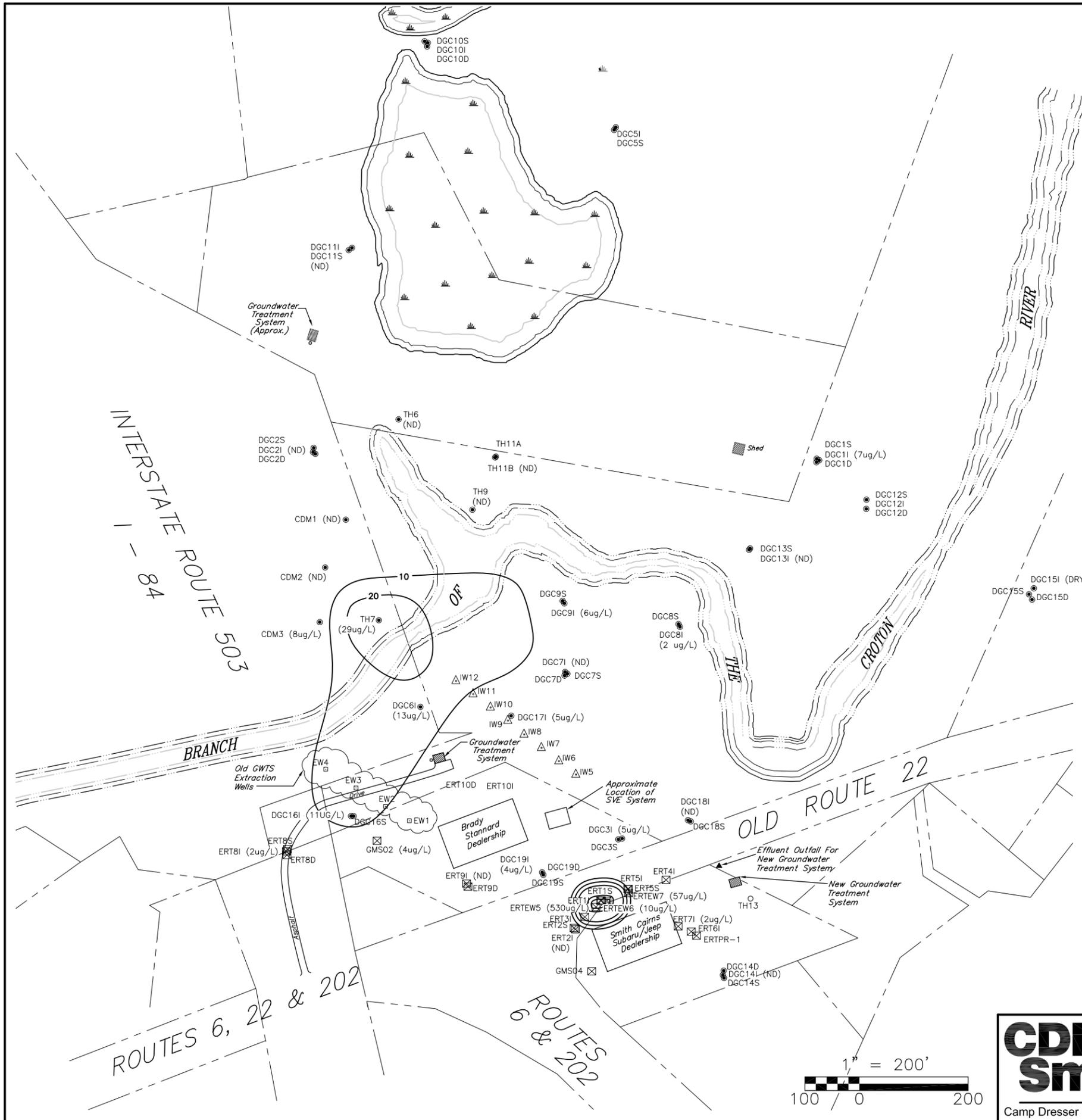
Groundwater Samples Collected 5/18/2011-5/21/2011			
Well	Tetrachloroethene (ug/L)	1,2-Dichloroethene (total) (ug/L)	Vinyl chloride (ug/L)
DGC-11	ND	ND	ND
DGC-21	ND	ND	ND
DGC31	ND	ND	ND
DGC61	16	30	ND
DGC71	3	97	ND
DGC81	4	3	ND
DGC91	12	27	ND
DGC111	ND	ND	ND
DGC131	ND	ND	ND
DGC141	ND	ND	ND
DGC161	1	ND	ND
DGC171	6	46	ND
DGC181	ND	ND	ND
DGC191	4	17	2
CDM1	ND	ND	ND
CDM2	ND	ND	ND
CDM3	14	ND	ND
ERT-21	ND	ND	ND
ERT-71	ND	ND	ND
ERT-81	2	ND	ND
ERT-91	ND	ND	ND
ERT-EW5	920	42	200
ERT-EW6	190	430	90
ERT-EW7	51	11	ND
GMS-02	6	ND	ND
TH-11B	ND	ND	ND
TH-6	ND	ND	ND
TH-7	36	30	ND
TH-9	ND	ND	ND



C:\CAD\BREWSTER\ FIG 5 01/19/10 18:03 Koskar

 Camp Dresser & McKee	<b>BREWSTER VILLAGE WELL FIELD</b>	<b>TETRACHLOROETHENE ISOCONCENTRATION INTERMEDIATE WELLS</b>	FIGURE NO.
		MAY 2011	5

C:\cdm\m\koskiar\d0772244\FIG-5 04/11/13 05:41 Koskiar

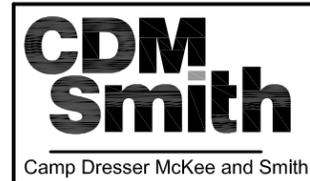
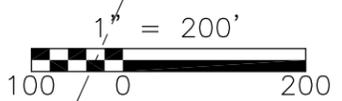


**LEGEND**

- DGC8I (2 ug/L) MONITORING WELL WITH DESIGNATION (TETRACHLOROETHENE CONCENTRATION, ug/L)
- EW1 OLD GWTS EXTRACTION WELL WITH DESIGNATION
- △ IW1 OLD GWTS INJECTION WELL WITH DESIGNATION
- ⊠ ERT-1 NEW GWTS EXTRACTION WELL WITH DESIGNATION
- - - - - APPROXIMATE PROPERTY LINE
- 20 — ISOCONCENTRATION CONTOUR LINE CONTOUR INTERVAL 10ug/L

THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.

Groundwater Samples Collected November 2012			
Well	Tetrachloroethene (ug/L)	1,2-Dichloroethene (total) (ug/L)	Vinyl chloride (ug/L)
DGC-1I	7	ND	ND
DGC-2I	ND	ND	ND
DGC3I	5	3	ND
DGC6I	13	45	ND
DGC7I	ND	77	2
DGC8I	2	2	ND
DGC9I	6	38	ND
DGC11I	ND	ND	ND
DGC13I	ND	ND	ND
DGC14I	ND	ND	ND
DGC16I	11	ND	ND
DGC17I	5	55	ND
DGC18I	ND	ND	ND
DGC19I	4	7	1
CDM1	ND	ND	ND
CDM2	ND	ND	ND
CDM3	8	ND	ND
ERT-2I	ND	ND	ND
ERT-7I	2	1	ND
ERT-8I	2	ND	ND
ERT-9I	ND	ND	ND
ERT-EW5	530	34	3
ERT-EW6	10	150	81
ERT-EW7	57	24	2
GMS-02	4	ND	ND
TH-11B	ND	ND	ND
TH-6	ND	ND	ND
TH-7	29	25	4
TH-9	ND	ND	ND



BREWSTER VILLAGE WELL FIELD	TETRACHLOROETHENE ISOCONCENTRATION INTERMEDIATE WELLS	FIGURE NO.
	NOVEMBER 2012	5

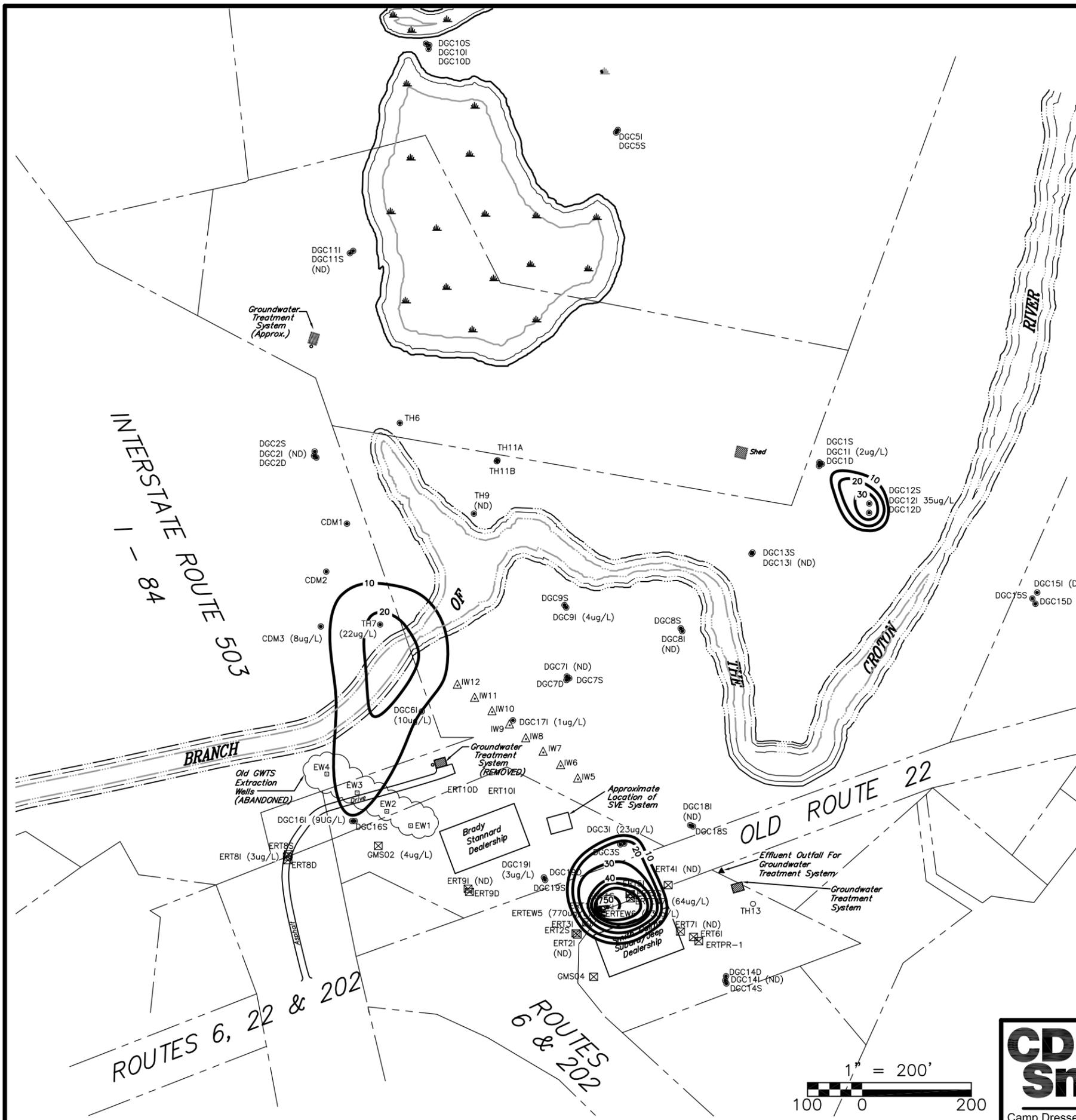


**LEGEND**

- DGC11 (2 ug/L) MONITORING WELL WITH DESIGNATION (TETRACHLOROETHENE CONCENTRATION, ug/L)
- EW1 OLD GWTS EXTRACTION WELL WITH DESIGNATION (ABANDONED)
- △ IW1 OLD GWTS INJECTION WELL WITH DESIGNATION
- ⊠ ERT-1 GWTS EXTRACTION WELL WITH DESIGNATION
- - - - - APPROXIMATE PROPERTY LINE
- 20 — ISOCONCENTRATION CONTOUR LINE CONTOUR INTERVAL 10ug/L

THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.

Groundwater Samples Collected April 2014	
Well	Tetrachloroethene (ug/L)
DGC-11	2
DGC-21	ND
DGC31	23
DGC61	10
DGC71	ND
DGC81	ND
DGC91	4
DGC111	ND
DGC121	35
DGC131	ND
DGC161	9
DGC171	1
DGC181	ND
DGC191	3
CDM3	8
ERT-21	ND
ERT-41	ND
ERT-71	ND
ERT-81	3
ERT-91	ND
ERT-EW5	770
ERT-EW6	43
ERT-EW7	64
GMS-02	4
TH-7	22
TH-9	ND

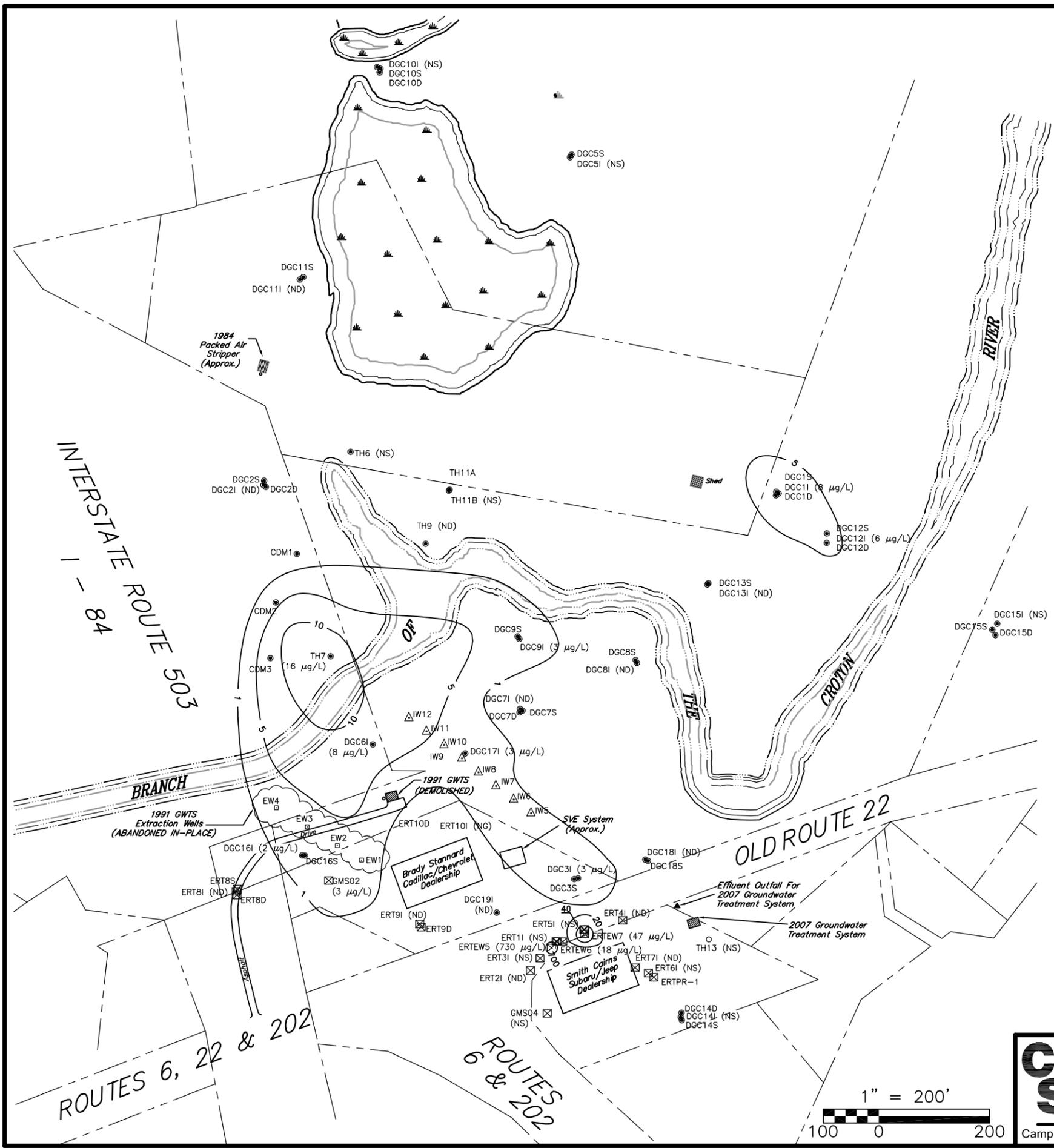


**BREWSTER VILLAGE WELL FIELD**

TETRACHLOROETHENE ISOCONCENTRATION INTERMEDIATE WELLS  
APRIL 2014

FIGURE NO.  
4

C:\cdm\m\koskiar\d0772244\FIG-4 04/11/13 05:40 Koskiar



**LEGEND**

- DGC8S (45µg/L)
- EW1
- △ IW1
- ⊠ ERT-1
- APPROX. PROPERTY LINE
- 20 — ISOCONCENTRATION CONTOUR LINE (10 µg/L INTERVAL)

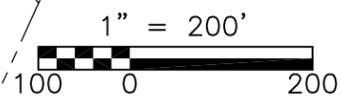
MONITORING WELL (CONCENTRATION)  
 1991 EXTRACTION WELL  
 1991 INJECTION WELL  
 2007 GWTS EXTRACTION WELL

THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.

Well	DCE (µg/l)	PCE (µg/l)	TCE (µg/l)	VC (µg/l)
DGC10I	NS	NS	NS	NS
DGC11I	ND	ND	ND	ND
DGC12I	ND	6	ND	ND
DGC13I	ND	ND	ND	ND
DGC14I	NS	NS	NS	NS
DGC15I	NS	NS	NS	NS
DGC16I	ND	2	ND	ND
DGC17I	62	3	5	ND
DGC18I	ND	ND	ND	ND
DGC19I	2	ND	ND	ND
DGC1I	ND	8	ND	ND
DGC2I	ND	ND	ND	ND
DGC3I	2	3	ND	ND
DGC5I	NS	NS	NS	NS
DGC6I	19	8	4	ND
DGC7I	75	ND	ND	1
DGC8I	ND	ND	ND	ND
DGC9I	7	3	4	ND
ERT1I	NS	NS	NS	NS
ERT2I	ND	ND	ND	ND
ERT3I	NS	NS	NS	NS
ERT4I	ND	ND	ND	ND
ERT5I	NS	NS	NS	NS
ERT6I	NS	NS	NS	NS
ERT7I	ND	ND	ND	ND
ERT8I	ND	ND	ND	ND
ERT9I	ND	ND	ND	ND
ERTEW5	30	730	4	7
ERTEW6	4	18	1	ND
ERTEW7	19	47	11	2
GMS02	ND	3	ND	ND
GMS04	NS	NS	NS	NS
TH11B	NS	NS	NS	NS
TH13	NS	NS	NS	NS
TH6	NS	NS	NS	NS
TH7	13	16	3	ND
TH9	ND	ND	ND	ND



NOTES:  
 ND NOT DETECTED  
 NS NOT SAMPLED  
 DCE CIS-1,2-DICHLOROETHYLENE  
 VC VINYL CHLORIDE  
 PCE TETRACHLOROETHYLENE  
 TCE TRICHLOROETHYLENE



 Camp Dresser McKee and Smith	BREWSTER VILLAGE WELL FIELD	GROUNDWATER PCE CONCENTRATIONS FOR INTERMEDIATE WELLS	FIGURE NO.
		APRIL 2015	6

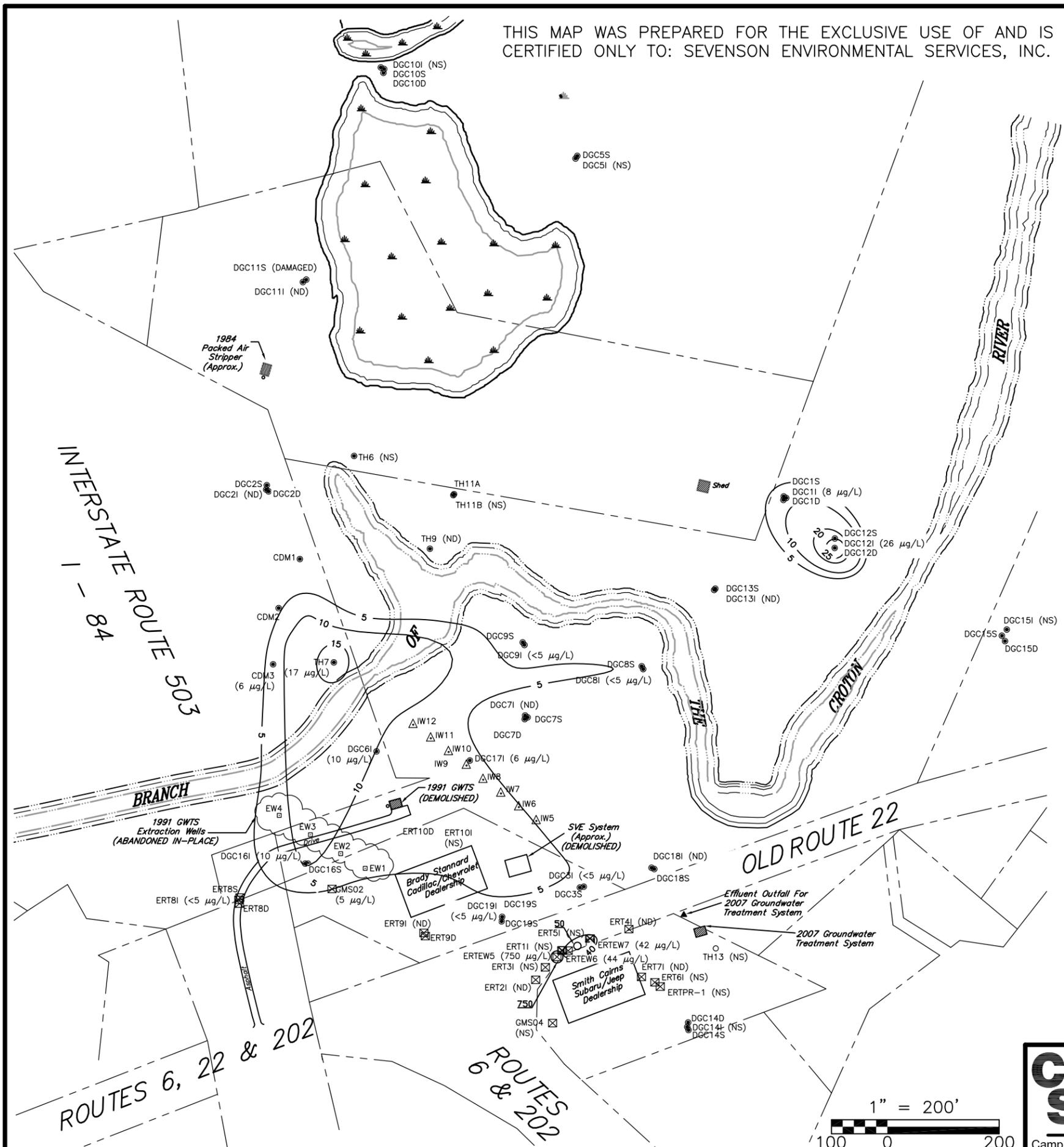
THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.

**LEGEND**

- DGC8S (45µg/L) MONITORING WELL (CONCENTRATION)
- EW1 1991 EXTRACTION WELL
- △ IW1 1991 INJECTION WELL
- ⊠ ERT-1 2007 GWTS EXTRACTION WELL
- - - - - APPROX. PROPERTY LINE
- 20 — ISOCONCENTRATION CONTOUR LINE

WELL	DATE/TIME SAMPLED	GROUNDWATER ELEVATION (FT AMSL)	PCE	TCE	DCE	VC
CDM-1	5/9/2016	330.29	ND	ND	ND	ND
CDM-3	5/9/2016	330.39	6	ND	ND	ND
DGC1I	5/9/2016	331.17	8	ND	ND	ND
DGC2I	5/9/2016	330.93	ND	ND	ND	ND
DGC3I	5/10/2016	330.70	<5	<5	<5	ND
DGC6I	5/10/2016	330.49	10	<5	18	ND
DGC7I	5/10/2016	331.31	ND	ND	62	ND
DGC8I	5/11/2016	331.21	ND	<5	ND	ND
DGC9I	5/11/2016	331.11	ND	<5	ND	ND
DGC11I	5/9/2016	330.76	ND	ND	ND	ND
DGC12IA	5/9/2016	330.42	26	ND	ND	ND
DGC13I	5/9/2016	330.49	ND	ND	ND	ND
DGC16I	5/10/2016	331.43	10	<5	ND	ND
DGC17I	5/10/2016	331.35	6	7	50	ND
DGC18I	5/10/2016	331.58	ND	ND	ND	ND
DGC19I	5/10/2016	331.40	<5	ND	5	ND
ERT2I	5/11/2016	331.60	ND	ND	ND	ND
ERT4I	5/10/2016	331.87	ND	ND	ND	ND
ERT7I	5/11/2016	331.89	ND	ND	ND	ND
ERT8I	5/10/2016	331.30	<5	ND	ND	ND
ERT9I	5/10/2016	331.46	ND	ND	ND	ND
ERTEW5	5/11/2016	NG	750	<5	32	2
ERTEW6	5/11/2016	NG	44	<5	6	ND
ERTEW7	5/11/2016	NG	42	11	21	ND
GMS02	5/10/2016	331.45	5	ND	ND	ND
TH7	5/9/2016	330.55	17	<5	12	ND
TH9	5/9/2016	330.39	ND	ND	ND	ND

NOTES:  
 ND NOT DETECTED  
 NG NOT GAUGED  
 NS NOT SAMPLED  
 DCE CIS-1,2-DICHLOROETHYLENE  
 PCE TETRACHLOROETHYLENE  
 TCE TRICHLOROETHYLENE  
 VC VINYL CHLORIDE



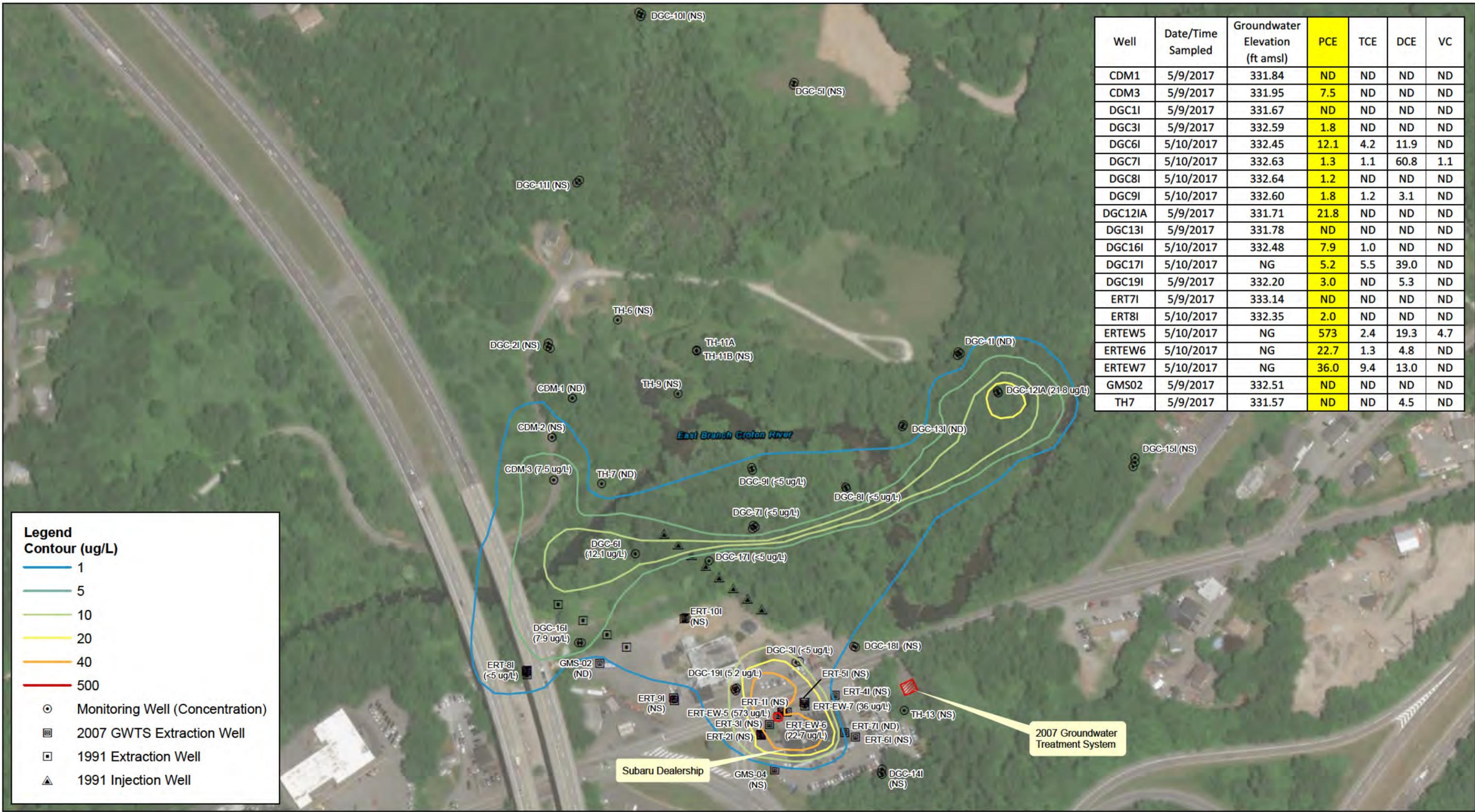
True North at 74° 30' West Longitude



**BREWSTER VILLAGE WELL FIELD**

GROUNDWATER PCE CONCENTRATIONS FOR INTERMEDIATE WELLS  
 MAY 2016

FIGURE NO.  
 6



Well	Date/Time Sampled	Groundwater Elevation (ft amsl)	PCE	TCE	DCE	VC
CDM1	5/9/2017	331.84	ND	ND	ND	ND
CDM3	5/9/2017	331.95	7.5	ND	ND	ND
DGC1I	5/9/2017	331.67	ND	ND	ND	ND
DGC3I	5/9/2017	332.59	1.8	ND	ND	ND
DGC6I	5/10/2017	332.45	12.1	4.2	11.9	ND
DGC7I	5/10/2017	332.63	1.3	1.1	60.8	1.1
DGC8I	5/10/2017	332.64	1.2	ND	ND	ND
DGC9I	5/10/2017	332.60	1.8	1.2	3.1	ND
DGC12IA	5/9/2017	331.71	21.8	ND	ND	ND
DGC13I	5/9/2017	331.78	ND	ND	ND	ND
DGC16I	5/10/2017	332.48	7.9	1.0	ND	ND
DGC17I	5/10/2017	NG	5.2	5.5	39.0	ND
DGC19I	5/9/2017	332.20	3.0	ND	5.3	ND
ERT7I	5/9/2017	333.14	ND	ND	ND	ND
ERT8I	5/10/2017	332.35	2.0	ND	ND	ND
ERTEW5	5/10/2017	NG	573	2.4	19.3	4.7
ERTEW6	5/10/2017	NG	22.7	1.3	4.8	ND
ERTEW7	5/10/2017	NG	36.0	9.4	13.0	ND
GMS02	5/9/2017	332.51	ND	ND	ND	ND
TH7	5/9/2017	331.57	ND	ND	4.5	ND

**Legend**

**Contour (ug/L)**

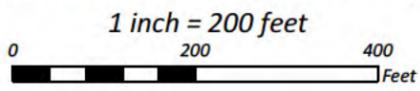
- 1
- 5
- 10
- 20
- 40
- 500

- Monitoring Well (Concentration)
- 2007 GWTS Extraction Well
- 1991 Extraction Well
- 1991 Injection Well



- Notes:
- All concentration contours are provided in micrograms per liter (ug/L).
  - GWTS - Groundwater Treatment System
  - NG - Not Gauged
  - NS - Not Sampled
  - ND - Not Detected
  - PCE - tetrachloroethene
  - TCE - trichloroethene
  - DCE - cis-1,2-dichloroethene
  - VC - vinyl chloride

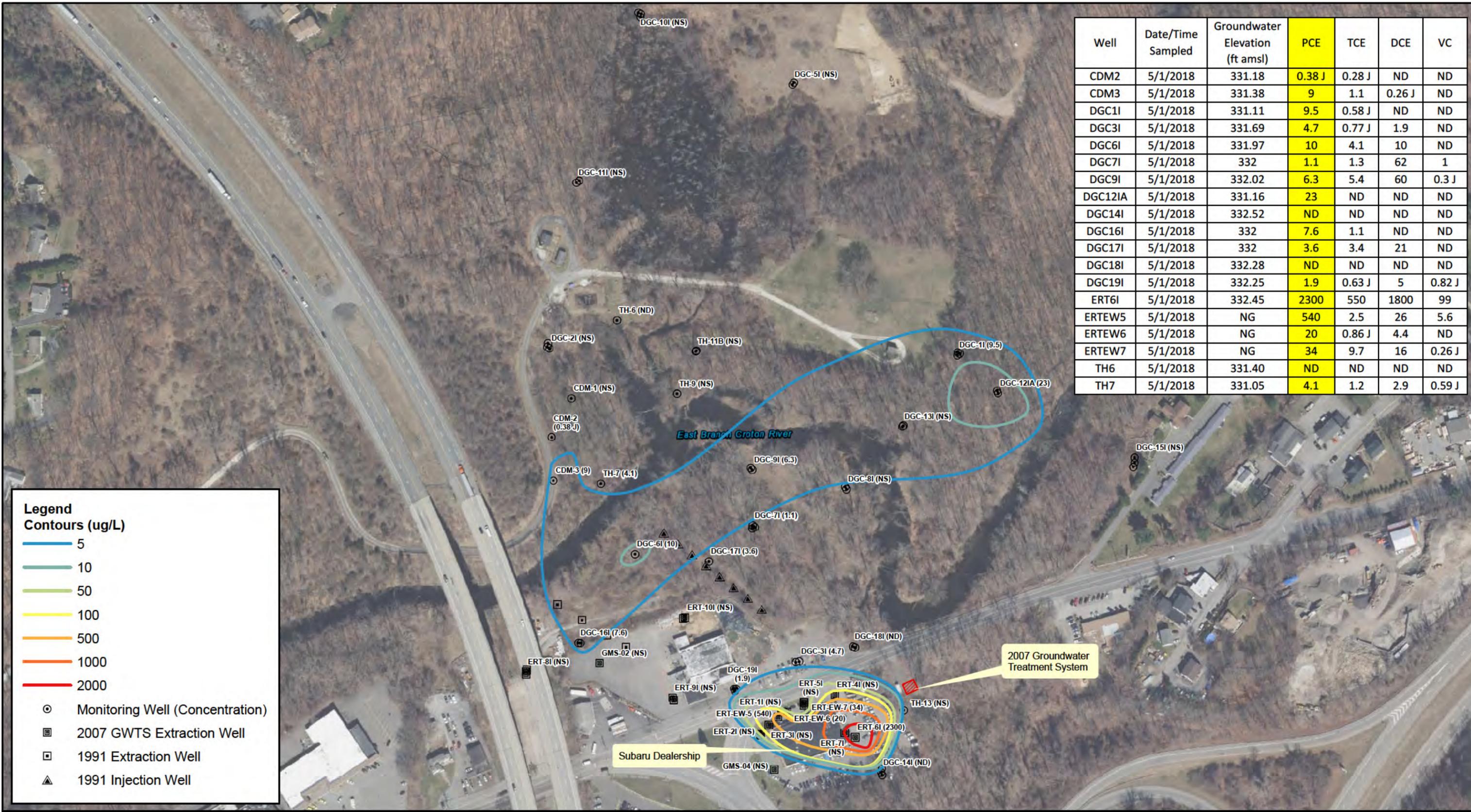
### Groundwater PCE Concentrations for Intermediate Wells - May 2017



Brewster Village Well Field  
Brewster, NY  
Figure 6



estm2017\_05\Users\jstrada\Desktop\Brewster\GIS\MapXact\fig6\_PCE\_IntermediateW\_Conour\_2017.mxd 3/5/2018



Well	Date/Time Sampled	Groundwater Elevation (ft amsl)	PCE	TCE	DCE	VC
CDM2	5/1/2018	331.18	0.38 J	0.28 J	ND	ND
CDM3	5/1/2018	331.38	9	1.1	0.26 J	ND
DGC1I	5/1/2018	331.11	9.5	0.58 J	ND	ND
DGC3I	5/1/2018	331.69	4.7	0.77 J	1.9	ND
DGC6I	5/1/2018	331.97	10	4.1	10	ND
DGC7I	5/1/2018	332	1.1	1.3	62	1
DGC9I	5/1/2018	332.02	6.3	5.4	60	0.3 J
DGC12IA	5/1/2018	331.16	23	ND	ND	ND
DGC14I	5/1/2018	332.52	ND	ND	ND	ND
DGC16I	5/1/2018	332	7.6	1.1	ND	ND
DGC17I	5/1/2018	332	3.6	3.4	21	ND
DGC18I	5/1/2018	332.28	ND	ND	ND	ND
DGC19I	5/1/2018	332.25	1.9	0.63 J	5	0.82 J
ERT6I	5/1/2018	332.45	2300	550	1800	99
ERTEW5	5/1/2018	NG	540	2.5	26	5.6
ERTEW6	5/1/2018	NG	20	0.86 J	4.4	ND
ERTEW7	5/1/2018	NG	34	9.7	16	0.26 J
TH6	5/1/2018	331.40	ND	ND	ND	ND
TH7	5/1/2018	331.05	4.1	1.2	2.9	0.59 J

**Legend**

**Contours (ug/L)**

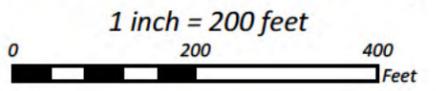
- 5
- 10
- 50
- 100
- 500
- 1000
- 2000

- Monitoring Well (Concentration)
- 2007 GWTS Extraction Well
- 1991 Extraction Well
- 1991 Injection Well



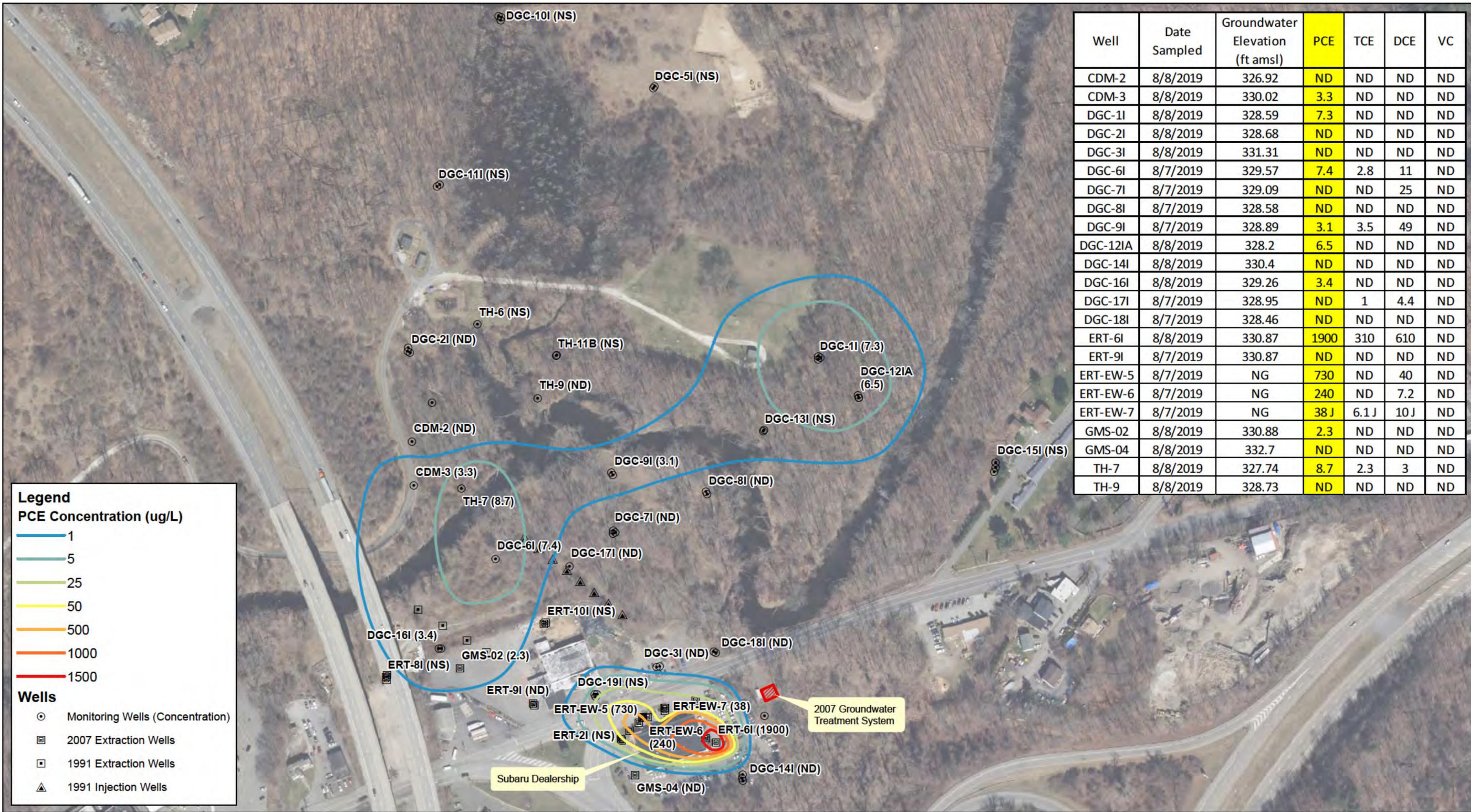
- Notes:
- All concentration contours are provided in micrograms per liter (ug/L).
  - GWTS - Groundwater Treatment System
  - NG - Not Gauged
  - NS - Not Sampled
  - ND - Not Detected
  - PCE - tetrachloroethene
  - TCE - trichloroethene
  - DCE - cis-1,2-dichloroethene
  - VC - vinyl chloride

### Groundwater PCE Concentrations for Intermediate Wells - May 2018



Brewster Village Well Field  
Brewster, NY  
Figure 6





**Legend**

**PCE Concentration (ug/L)**

- 1
- 5
- 25
- 50
- 500
- 1000
- 1500

**Wells**

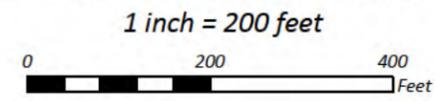
- Monitoring Wells (Concentration)
- 2007 Extraction Wells
- 1991 Extraction Wells
- 1991 Injection Wells



- Notes:**
- All concentration contours are provided in micrograms per liter (ug/L).
  - ft amsl - feet above mean sea level
  - NG - not gauged
  - NS - not sampled

5. ND - not detected
6. PCE - tetrachloroethene
7. TCE - trichloroethene
8. DCE - cis-1,2-dichloroethene
9. VC - vinyl chloride

## Groundwater PCE Concentrations for Intermediate Wells - August 2019



Brewster Village Well Field  
Brewster, NY  
Figure 6





Well	Date Sampled	Groundwater Elevation (ft amsl)	PCE	TCE	DCE	VC
DGC-1I	9/30/2020	329.36	6.8	1.4 J	0.34 J	ND
DGC-3I	9/29/2020	330.58	0.36 J	ND	ND	ND
DGC-6I	9/29/2020	330.46	5.2	1.5 J	6.2	ND
DGC-7I	9/30/2020	330.37	0.39 J	0.25 J	16	ND
DGC-8I	9/30/2020	330.60	ND	ND	ND	ND
DGC-9I	9/30/2020	330.34	0.27 J	2.6 J	21	ND
DGC-12IA	9/30/2020	329.58	6	ND	ND	ND
DGC-13I	9/30/2020	329.57	ND	ND	ND	ND
DGC-14I	10/1/2020	330.32	ND	ND	ND	ND
DGC-16I	9/30/2020	330.62	2 J	0.42 J	ND	ND
DGC-17I	9/30/2020	330.66	1.2 J	0.67 J	3.7 J	ND
DGC-18I	9/30/2020	330.67	ND	ND	ND	0.22 J
ERT-1I	10/1/2020	330.65	110	3.5 J	ND	ND
ERT-2I	10/1/2020	330.76	ND	ND	ND	ND
ERT-5I	10/1/2020	330.53	22	5.7	7.4	ND
ERT-6I	10/1/2020	330.63	1400	220	700	27 J
ERT-7I	10/1/2020	330.94	0.39 J	ND	ND	ND
ERT-8I	9/30/2020	330.64	0.92 J	0.3 J	ND	ND
ERT-9I	9/29/2020	330.51	ND	ND	ND	ND
ERTEW5	9/30/2020	NG	690 D	21	90	ND
ERTEW6	9/30/2020	NG	52	4 J	44	ND
ERTEW7	10/1/2020	NG	630	14 J	56	3.8 J
GMS-02	9/29/2020	330.50	2.3 J	0.48 J	ND	ND
TH-7	10/1/2020	329.46	1.9 J	0.8 J	2.1 J	ND
TH-9	9/30/2020	329.32	ND	ND	ND	ND

**Legend**

**PCE Concentration (ug/L)**

- 1
- 5
- 50
- 500
- 1000

**Wells**

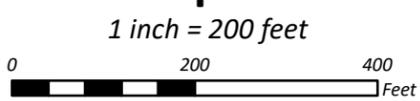
- Monitoring Wells (PCE Concentration)
- 2007 Extraction Wells
- 1991 Extraction Wells
- 1991 Injection Wells



Notes:

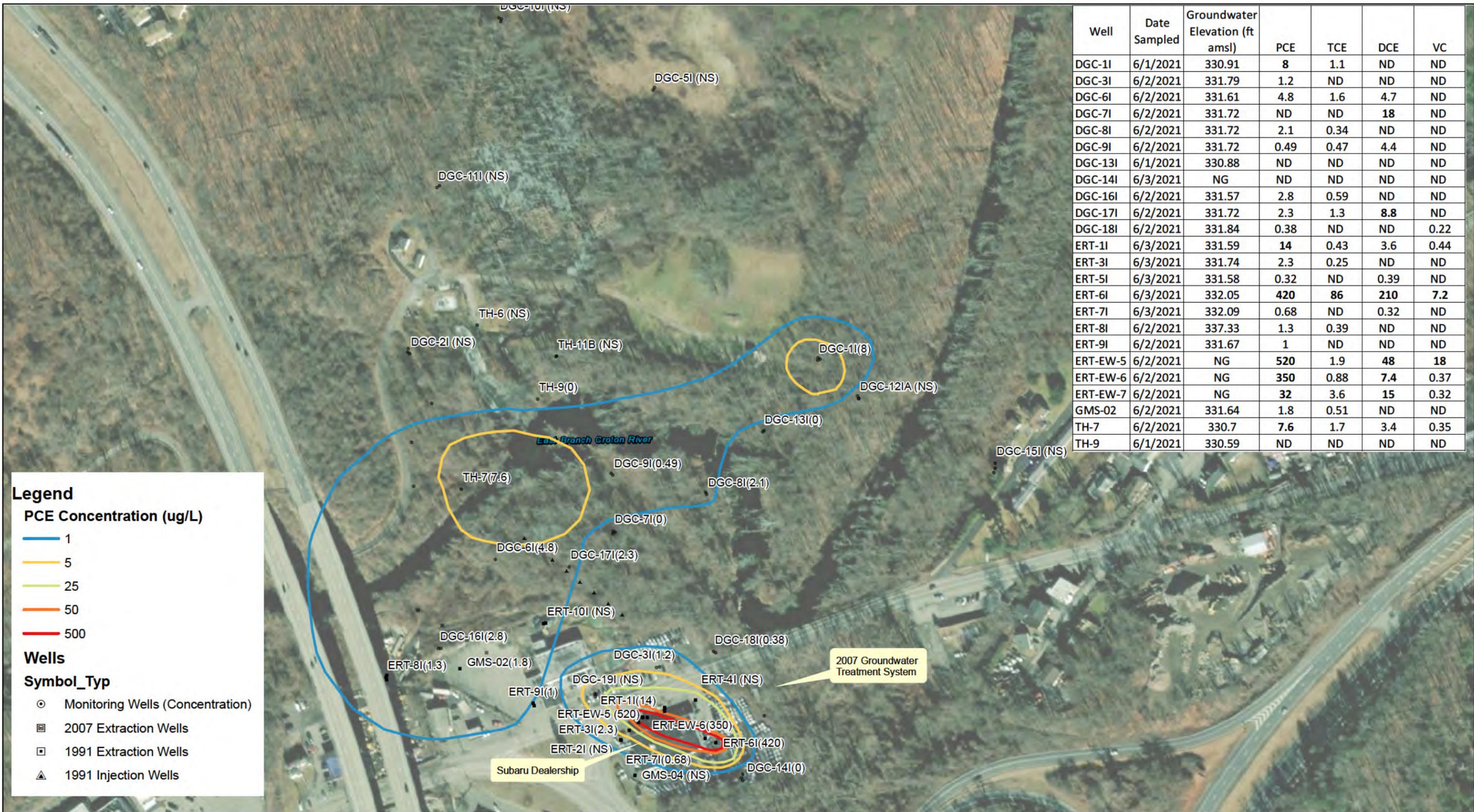
1. All concentration contours are provided in micrograms per liter (ug/L).
2. ft amsl - feet above mean sea level
3. NG - not gauged
4. ND - not detected
5. PCE - tetrachloroethene
6. TCE - trichloroethene
7. DCE - cis-1,2-dichloroethene
8. VC - vinyl chloride

## Groundwater PCE Concentrations for Intermediate Wells - September & October 2020



Brewster Village Well Field  
Brewster, NY  
Figure 3-1





**Legend**

**PCE Concentration (ug/L)**

- 1 (Blue line)
- 5 (Yellow line)
- 25 (Green line)
- 50 (Orange line)
- 500 (Red line)

**Wells**

**Symbol\_Typ**

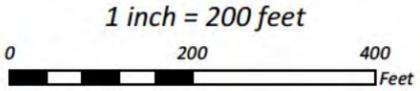
- Monitoring Wells (Concentration)
- 2007 Extraction Wells
- 1991 Extraction Wells
- ▲ 1991 Injection Wells



- Notes:
- All concentration contours are provided in micrograms per liter (ug/L).
  - ft amsl - feet above mean sea level
  - NG - not gauged
  - NS - not sampled

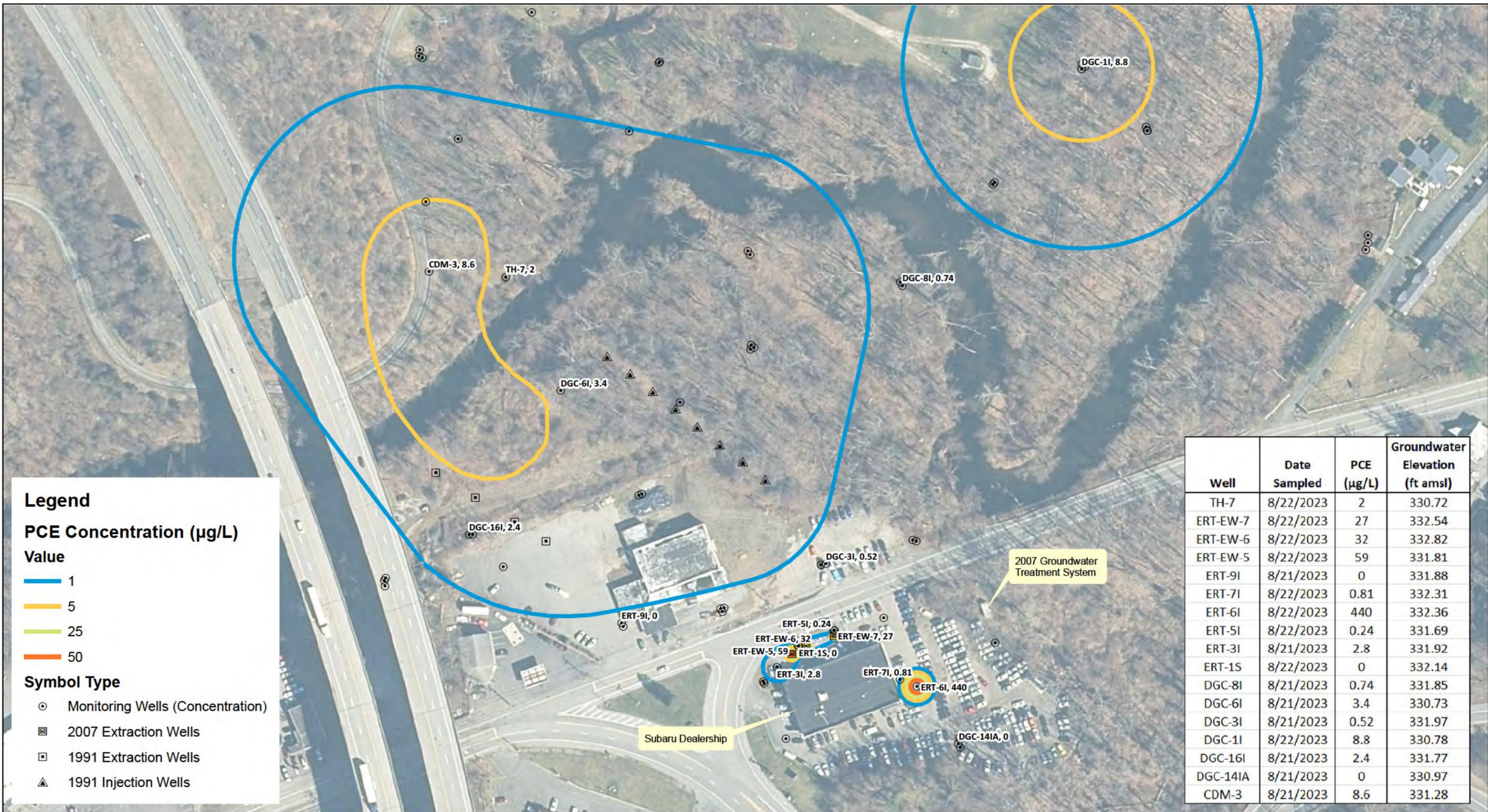
5. ND - not detected
6. PCE - tetrachloroethene
7. TCE - trichloroethene
8. DCE - cis-1,2-dichloroethene
9. VC - vinyl chloride

### Groundwater PCE Concentrations for Intermediate Wells - June 2021



Brewster Village Well Field  
Brewster, NY  
Figure 3-1





**Legend**

**PCE Concentration (µg/L)**

**Value**

- 1
- 5
- 25
- 50

**Symbol Type**

- Monitoring Wells (Concentration)
- 2007 Extraction Wells
- 1991 Extraction Wells
- ▲ 1991 Injection Wells

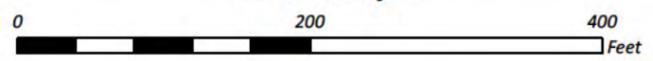
Well	Date Sampled	PCE (µg/L)	Groundwater Elevation (ft amsl)
TH-7	8/22/2023	2	330.72
ERT-EW-7	8/22/2023	27	332.54
ERT-EW-6	8/22/2023	32	332.82
ERT-EW-5	8/22/2023	59	331.81
ERT-9I	8/21/2023	0	331.88
ERT-7I	8/22/2023	0.81	332.31
ERT-6I	8/22/2023	440	332.36
ERT-5I	8/22/2023	0.24	331.69
ERT-3I	8/21/2023	2.8	331.92
ERT-15	8/22/2023	0	332.14
DGC-8I	8/21/2023	0.74	331.85
DGC-6I	8/21/2023	3.4	330.73
DGC-3I	8/21/2023	0.52	331.97
DGC-1I	8/22/2023	8.8	330.78
DGC-16I	8/21/2023	2.4	331.77
DGC-14IA	8/21/2023	0	330.97
CDM-3	8/21/2023	8.6	331.28



- Notes:
1. All concentration contours are provided in micrograms per liter (µg/L).
  2. Non-detect results assigned values equal to 0 µg/L
  3. PCE - tetrachloroethene

### Groundwater PCE Concentrations for Intermediate Wells — August 2023

1 inch = 125 feet

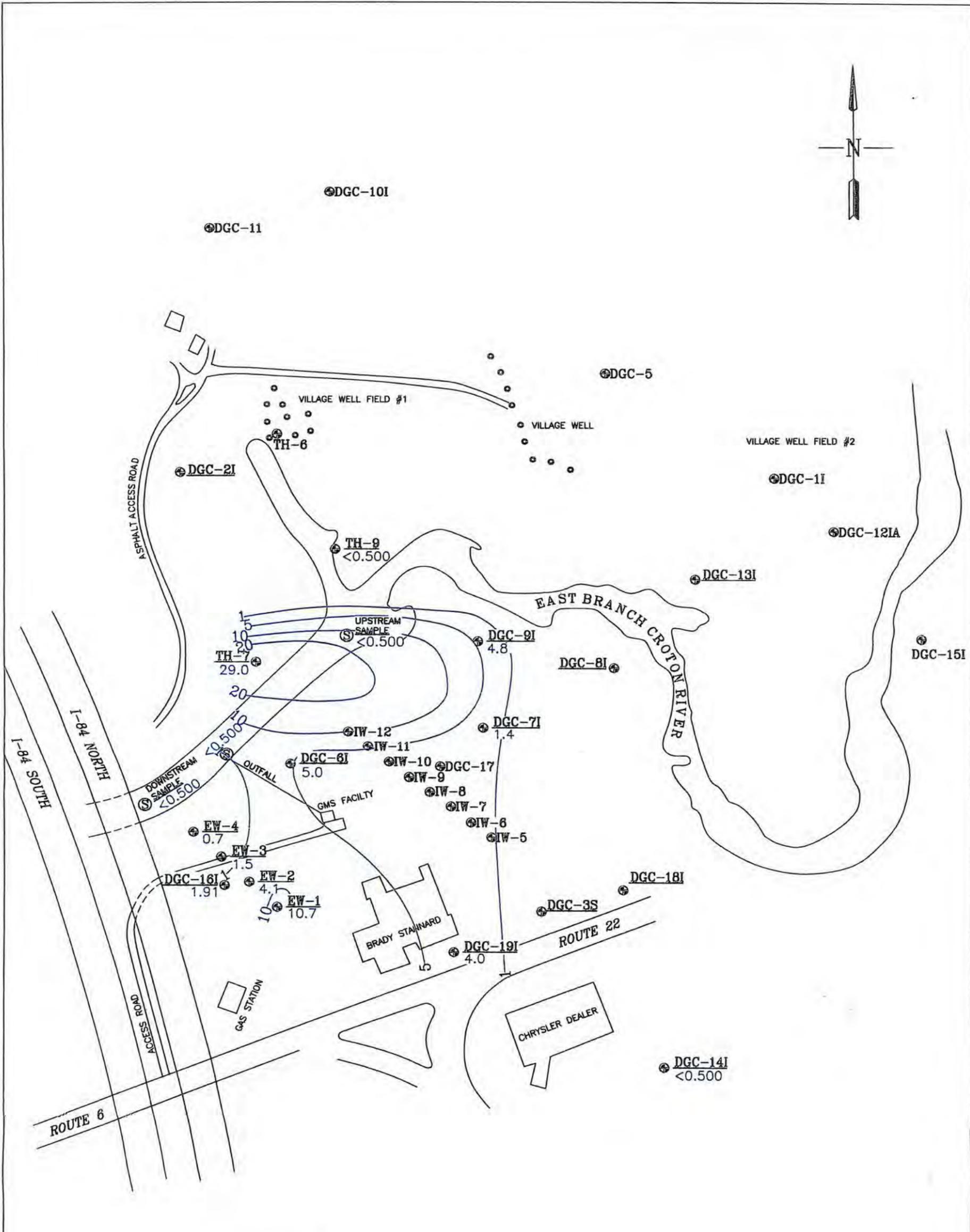
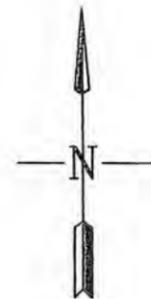


Brewster Village Well Field  
Brewster, NY  
Figure 4-6



## Historical Trichloroethylene (TCE) Isoconcentration Plots

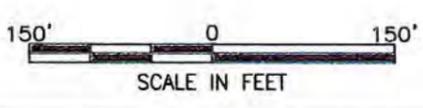
May 2005 through



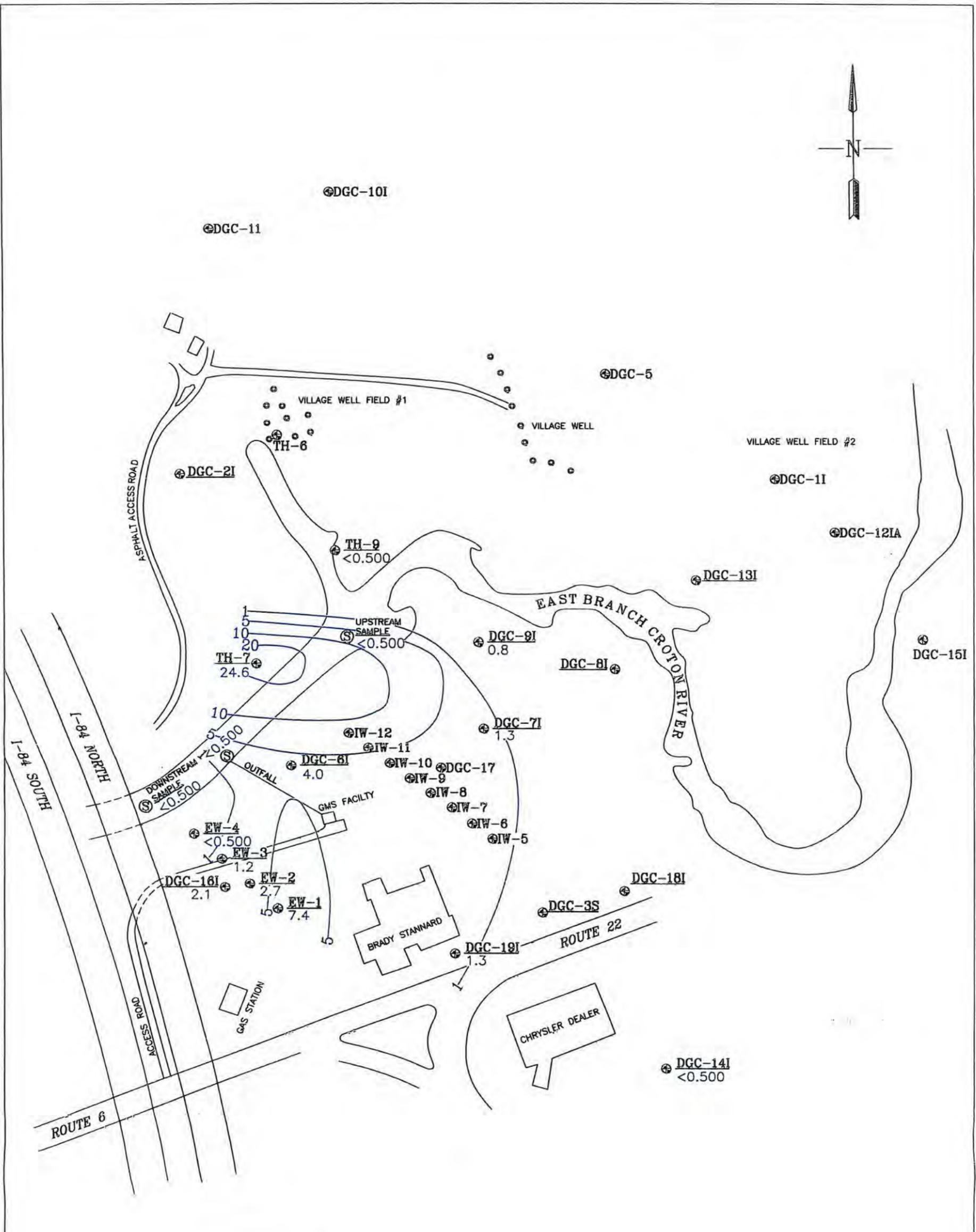
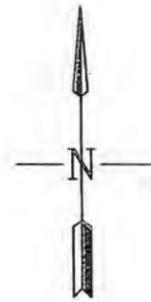
**LEGEND**

- DGC-7I**  
 1.4 MONITORING WELL LOCATION  
 TRICHLOROETHENE CONCENTRATION (µg/L)
- 5 ISOCONCENTRATION LINE (DASHED WHERE INFERRED)

- NOTES:
1. UNEVEN CONTOUR INTERVALS WERE USED TO MORE ACCURATELY DEPICT THE CONTAMINANT PLUME.
  2. ORIGINAL DRAWING PROVIDED BY SEVENSON ENVIRONMENTAL SERVICES, INC.



<b>SEVENSON</b>			
BREWSTER WELL FIELD			
<b>TRICHLOROETHENE ISOCONCENTRATION CONTOUR MAP (MARCH 2005)</b>			
drawn <i>DAK</i>	checked	approved	figure no. <b>6</b>
date 05/02/05	date	date	
job no. 01-1408-04-1548-000	file no. 1548-006.dwg		
<b>Science Applications International Corporation</b> <i>An Employee-Owned Company</i>			

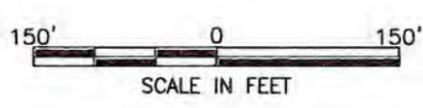


**LEGEND**

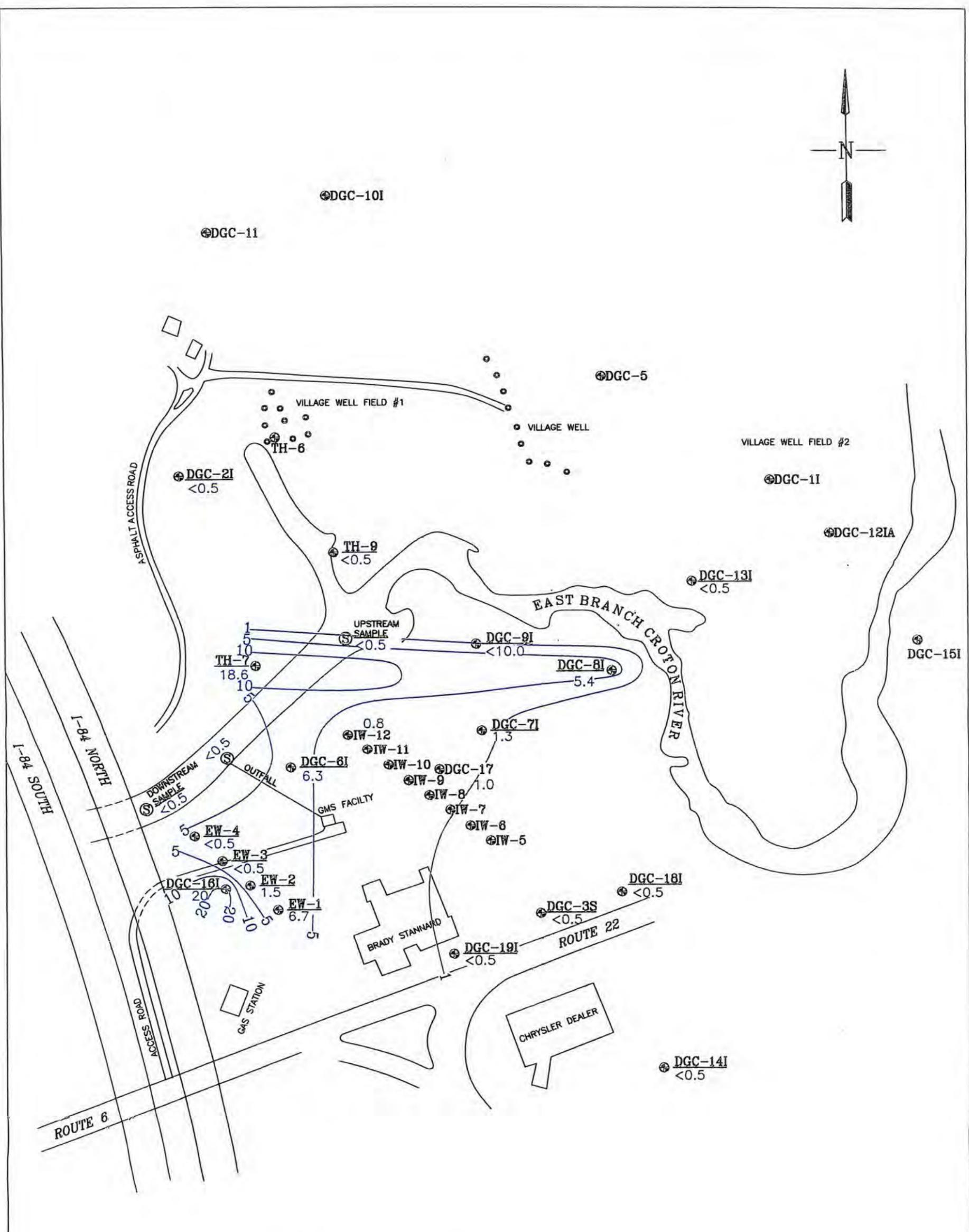
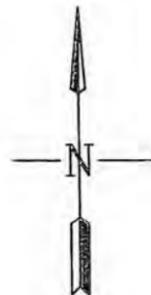
- ⊕ DGC-7I  
1.3     MONITORING WELL LOCATION  
TRICHLOROETHENE CONCENTRATION (µg/L)
- 5     ISOCONCENTRATION LINE (DASHED WHERE INFERRED)

**NOTES:**

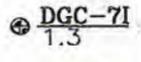
1. UNEVEN CONTOUR INTERVALS WERE USED TO MORE ACCURATELY DEPICT THE CONTAMINANT PLUME.
2. ORIGINAL DRAWING PROVIDED BY SEVENSON ENVIRONMENTAL SERVICES, INC.



<b>SEVENSON</b>			
BREWSTER WELL FIELD			
<b>TRICHLOROETHENE ISOCONCENTRATION CONTOUR MAP (JUNE 2005)</b>			
drawn <i>DAK</i>	checked <i>MJR</i>	approved <i>RCC</i>	figure no.
date 07/26/05	date 07/25/05	date 07/25/05	<b>6</b>
Job no. 01-1833-04-2388-200		file no. 1548-008.dwg	



**LEGEND**

- 
**DGC-7I**  
 1.3 MONITORING WELL LOCATION  
 TRICHLOROETHENE CONCENTRATION (µg/L)
- 
 5 ISOCONCENTRATION LINE (DASHED WHERE INFERRED)

**NOTES:**

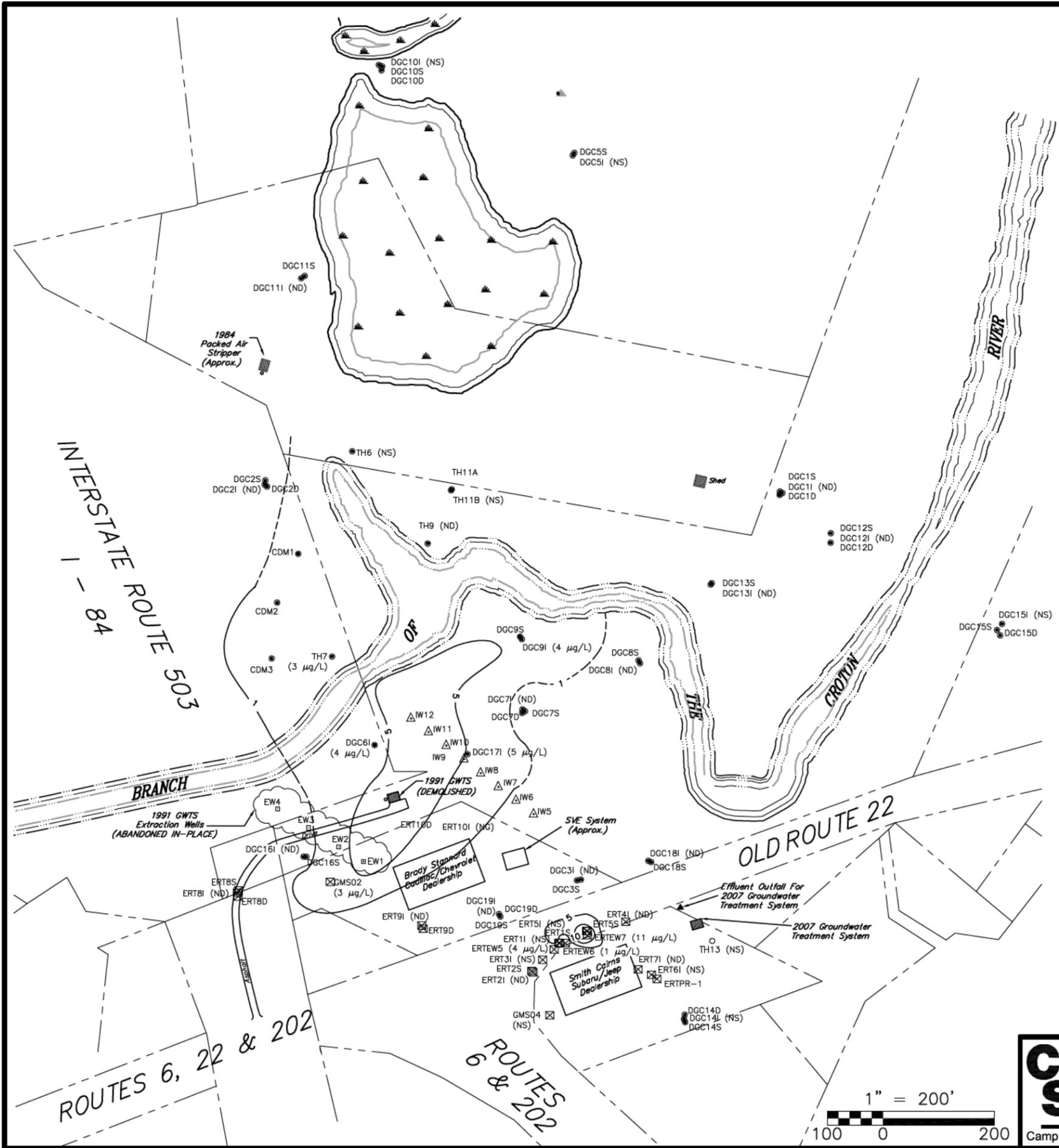
1. UNEVEN CONTOUR INTERVALS WERE USED TO MORE ACCURATELY DEPICT THE CONTAMINANT PLUME.
2. ORIGINAL DRAWING PROVIDED BY SEVENSON ENVIRONMENTAL SERVICES, INC.



<b>SEVENSON</b>			
BREWSTER WELL FIELD			
<b>TRICHLOROETHENE ISOCONCENTRATION CONTOUR MAP (SEPTEMBER 2005)</b>			
drawn <i>DAK</i>	checked <i>MJR</i>	approved <i>RCC</i>	figure no.
date 11/17/05	date 11/17/05	date 11/17/05	<b>6</b>
job no. 01-1633-04-2388-200		file no. 1548-008.dwg	
 <b>Science Applications International Corporation</b> <small>From Science to Solutions™</small>			



C:\cdm\m\koskiar\d0772244\FIG-4 04/11/13 05:40 Koskiar



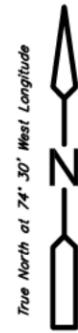
**LEGEND**

- DGCBS (45µg/L)
- EW1
- △ IW1
- ⊠ ERT-1
- APPROX. PROPERTY LINE
- 20 — ISOCONCENTRATION CONTOUR LINE (10 µg/L INTERVAL)

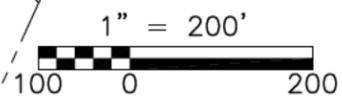
MONITORING WELL (CONCENTRATION)  
 1991 EXTRACTION WELL  
 1991 INJECTION WELL  
 2007 GWTS EXTRACTION WELL

THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.

Well	DCE (µg/l)	PCE (µg/l)	TCE (µg/l)	VC (µg/l)
DGC10I	NS	NS	NS	NS
DGC11I	ND	ND	ND	ND
DGC12I	ND	6	ND	ND
DGC13I	ND	ND	ND	ND
DGC14I	NS	NS	NS	NS
DGC15I	NS	NS	NS	NS
DGC16I	ND	2	ND	ND
DGC17I	62	3	5	ND
DGC18I	ND	ND	ND	ND
DGC19I	2	ND	ND	ND
DGC1I	ND	8	ND	ND
DGC2I	ND	ND	ND	ND
DGC3I	2	3	ND	ND
DGC5I	NS	NS	NS	NS
DGC6I	19	8	4	ND
DGC7I	75	ND	ND	1
DGC8I	ND	ND	ND	ND
DGC9I	7	3	4	ND
ERT1I	NS	NS	NS	NS
ERT2I	ND	ND	ND	ND
ERT3I	NS	NS	NS	NS
ERT4I	ND	ND	ND	ND
ERT5I	NS	NS	NS	NS
ERT6I	NS	NS	NS	NS
ERT7I	ND	ND	ND	ND
ERT8I	ND	ND	ND	ND
ERT9I	ND	ND	ND	ND
ERTEW5	30	730	4	7
ERTEW6	4	18	1	ND
ERTEW7	19	47	11	2
GMS02	ND	3	ND	ND
GMS04	NS	NS	NS	NS
TH11B	NS	NS	NS	NS
TH13	NS	NS	NS	NS
TH6	NS	NS	NS	NS
TH7	13	16	3	ND
TH9	ND	ND	ND	ND



NOTES:  
 ND NOT DETECTED  
 NS NOT SAMPLED  
 DCE CIS-1,2-DICHLOROETHYLENE  
 VC VINYL CHLORIDE  
 PCE TETRACHLOROETHYLENE  
 TCE TRICHLOROETHYLENE



 Camp Dresser McKee and Smith	BREWSTER VILLAGE WELL FIELD	GROUNDWATER TCE CONCENTRATIONS FOR INTERMEDIATE WELLS	FIGURE NO.
		APRIL 2015	7

THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.

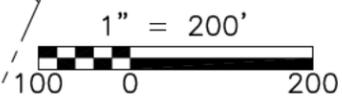
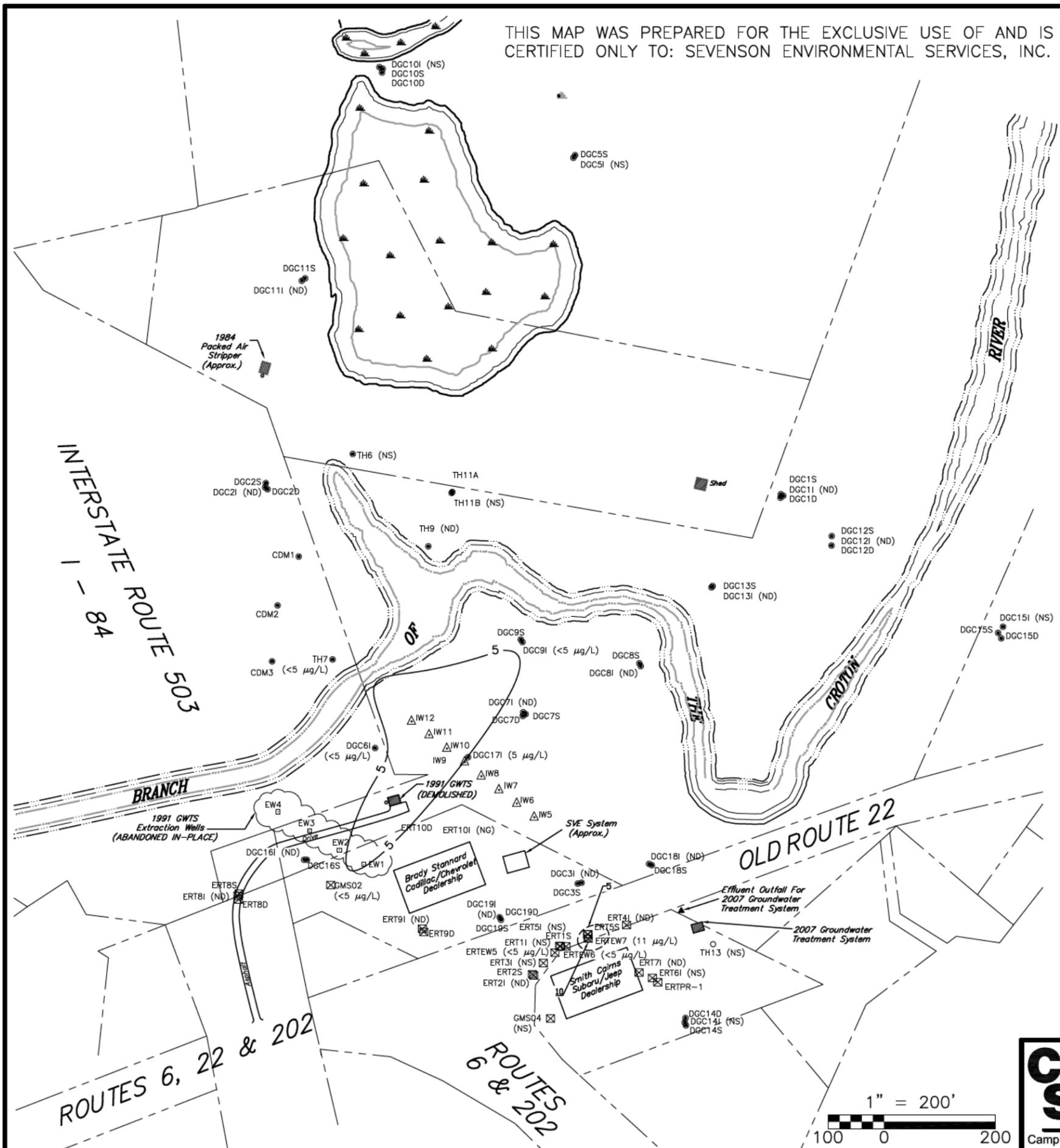
**LEGEND**

- DGC8S (45µg/L) MONITORING WELL (CONCENTRATION)
- EW1 1991 EXTRACTION WELL
- △ IW1 1991 INJECTION WELL
- ⊠ ERT-1 2007 GWTS EXTRACTION WELL
- APPROX. PROPERTY LINE
- 20' ISOCONCENTRATION CONTOUR LINE

WELL	DATE/TIME SAMPLED	GROUNDWATER ELEVATION (FT AMSL)	PCE	TCE	DCE	VC
CDM-1	5/9/2016	330.29	ND	ND	ND	ND
CDM-3	5/9/2016	330.39	6	ND	ND	ND
DGC1I	5/9/2016	331.17	8	ND	ND	ND
DGC2I	5/9/2016	330.93	ND	ND	ND	ND
DGC3I	5/10/2016	330.70	<5	<5	<5	ND
DGC6I	5/10/2016	330.49	10	<5	18	ND
DGC7I	5/10/2016	331.31	ND	ND	62	ND
DGC8I	5/11/2016	331.21	ND	<5	ND	ND
DGC9I	5/11/2016	331.11	ND	<5	ND	ND
DGC11I	5/9/2016	330.76	ND	ND	ND	ND
DGC12IA	5/9/2016	330.42	26	ND	ND	ND
DGC13I	5/9/2016	330.49	ND	ND	ND	ND
DGC16I	5/10/2016	331.43	10	<5	ND	ND
DGC17I	5/10/2016	331.35	6	7	50	ND
DGC18I	5/10/2016	331.58	ND	ND	ND	ND
DGC19I	5/10/2016	331.40	<5	ND	5	ND
ERT2I	5/11/2016	331.60	ND	ND	ND	ND
ERT4I	5/10/2016	331.87	ND	ND	ND	ND
ERT7I	5/11/2016	331.89	ND	ND	ND	ND
ERT8I	5/10/2016	331.30	<5	ND	ND	ND
ERT9I	5/10/2016	331.46	ND	ND	ND	ND
ERTEW5	5/11/2016	NG	750	<5	32	2
ERTEW6	5/11/2016	NG	44	<5	6	ND
ERTEW7	5/11/2016	NG	42	11	21	ND
GMS02	5/10/2016	331.45	5	ND	ND	ND
TH7	5/9/2016	330.55	17	<5	12	ND
TH9	5/9/2016	330.39	ND	ND	ND	ND

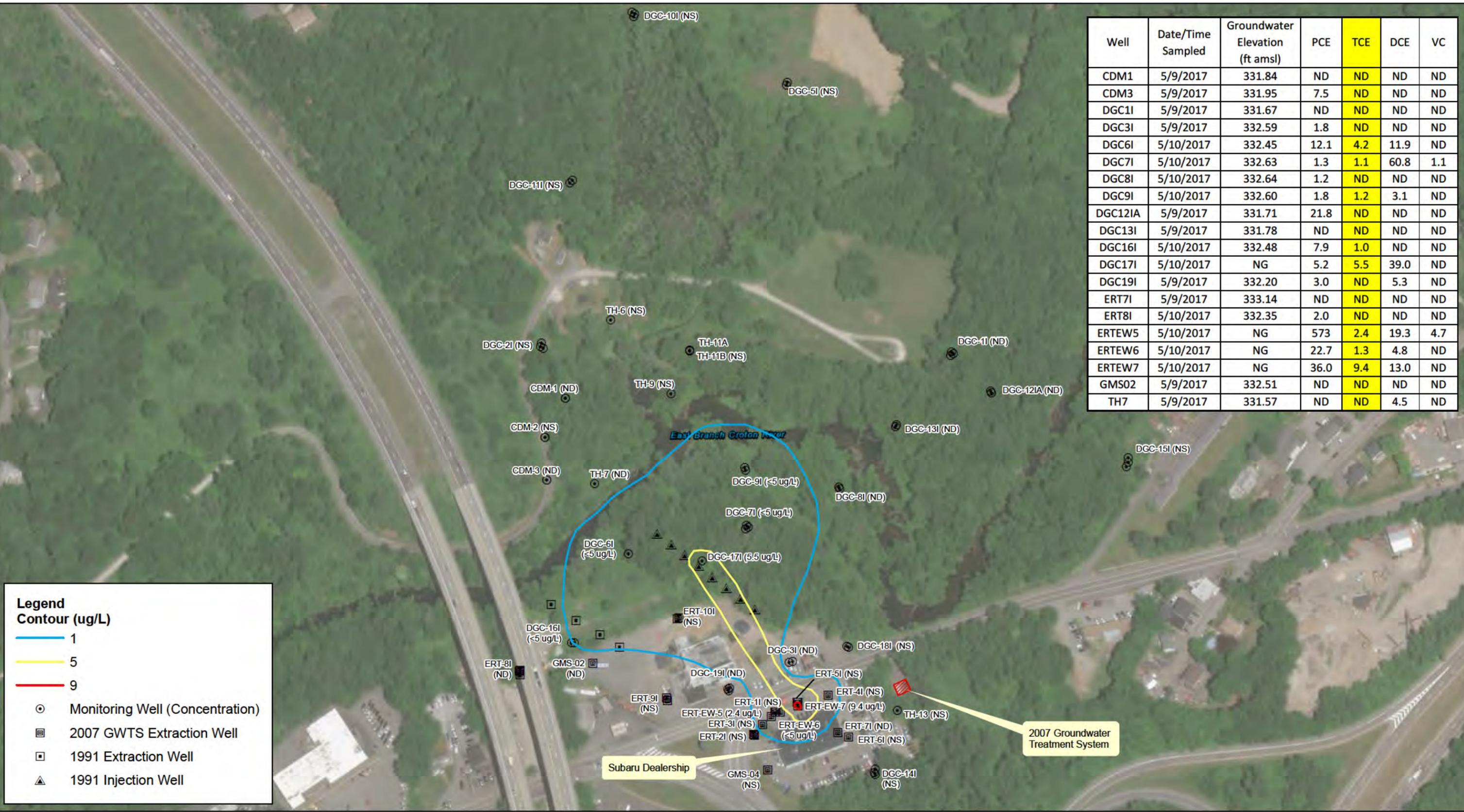
True North at 74° 30' West Longitude

NOTES:  
 ND NOT DETECTED  
 NG NOT GAUGED  
 NS NOT SAMPLED  
 DCE CIS-1,2-DICHLOROETHYLENE  
 PCE TETRACHLOROETHYLENE  
 TCE TRICHLOROETHYLENE  
 VC VINYL CHLORIDE



 Camp Dresser McKee and Smith	<b>BREWSTER VILLAGE WELL FIELD</b>	<b>GROUNDWATER TCE CONCENTRATIONS FOR INTERMEDIATE WELLS</b>	FIGURE NO.
		MAY 2016	7

Well	Date/Time Sampled	Groundwater Elevation (ft amsl)	PCE	TCE	DCE	VC
CDM1	5/9/2017	331.84	ND	ND	ND	ND
CDM3	5/9/2017	331.95	7.5	ND	ND	ND
DGC1I	5/9/2017	331.67	ND	ND	ND	ND
DGC3I	5/9/2017	332.59	1.8	ND	ND	ND
DGC6I	5/10/2017	332.45	12.1	4.2	11.9	ND
DGC7I	5/10/2017	332.63	1.3	1.1	60.8	1.1
DGC8I	5/10/2017	332.64	1.2	ND	ND	ND
DGC9I	5/10/2017	332.60	1.8	1.2	3.1	ND
DGC12IA	5/9/2017	331.71	21.8	ND	ND	ND
DGC13I	5/9/2017	331.78	ND	ND	ND	ND
DGC16I	5/10/2017	332.48	7.9	1.0	ND	ND
DGC17I	5/10/2017	NG	5.2	5.5	39.0	ND
DGC19I	5/9/2017	332.20	3.0	ND	5.3	ND
ERT7I	5/9/2017	333.14	ND	ND	ND	ND
ERT8I	5/10/2017	332.35	2.0	ND	ND	ND
ERTEW5	5/10/2017	NG	573	2.4	19.3	4.7
ERTEW6	5/10/2017	NG	22.7	1.3	4.8	ND
ERTEW7	5/10/2017	NG	36.0	9.4	13.0	ND
GMS02	5/9/2017	332.51	ND	ND	ND	ND
TH7	5/9/2017	331.57	ND	ND	4.5	ND



**Legend**

**Contour (ug/L)**

- 1
- 5
- 9

- ⊙ Monitoring Well (Concentration)
- ⊠ 2007 GWTS Extraction Well
- ⊡ 1991 Extraction Well
- ▲ 1991 Injection Well

**Notes:**

1. All concentration contours are provided in micrograms per liter (ug/L).
2. GWTS - Groundwater Treatment System
3. NG - Not Gauged
4. NS - Not Sampled
5. ND - Not Detected
6. PCE - tetrachloroethene
7. TCE - trichloroethene
8. DCE - cis-1,2-dichloroethene
9. VC - vinyl chloride

Brewster Village Well Field  
Brewster, NY  
**Figure 7**

### Groundwater TCE Concentrations for Intermediate Wells - May 2017

1 inch = 200 feet



**Legend**  
Contours (ug/L)

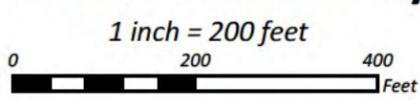
- 1
- 5
- 100
- 500

- ⊙ Monitoring Well (Concentration)
- ⊠ 2007 GWTS Extraction Well
- ⊡ 1991 Extraction Well
- ▲ 1991 Injection Well



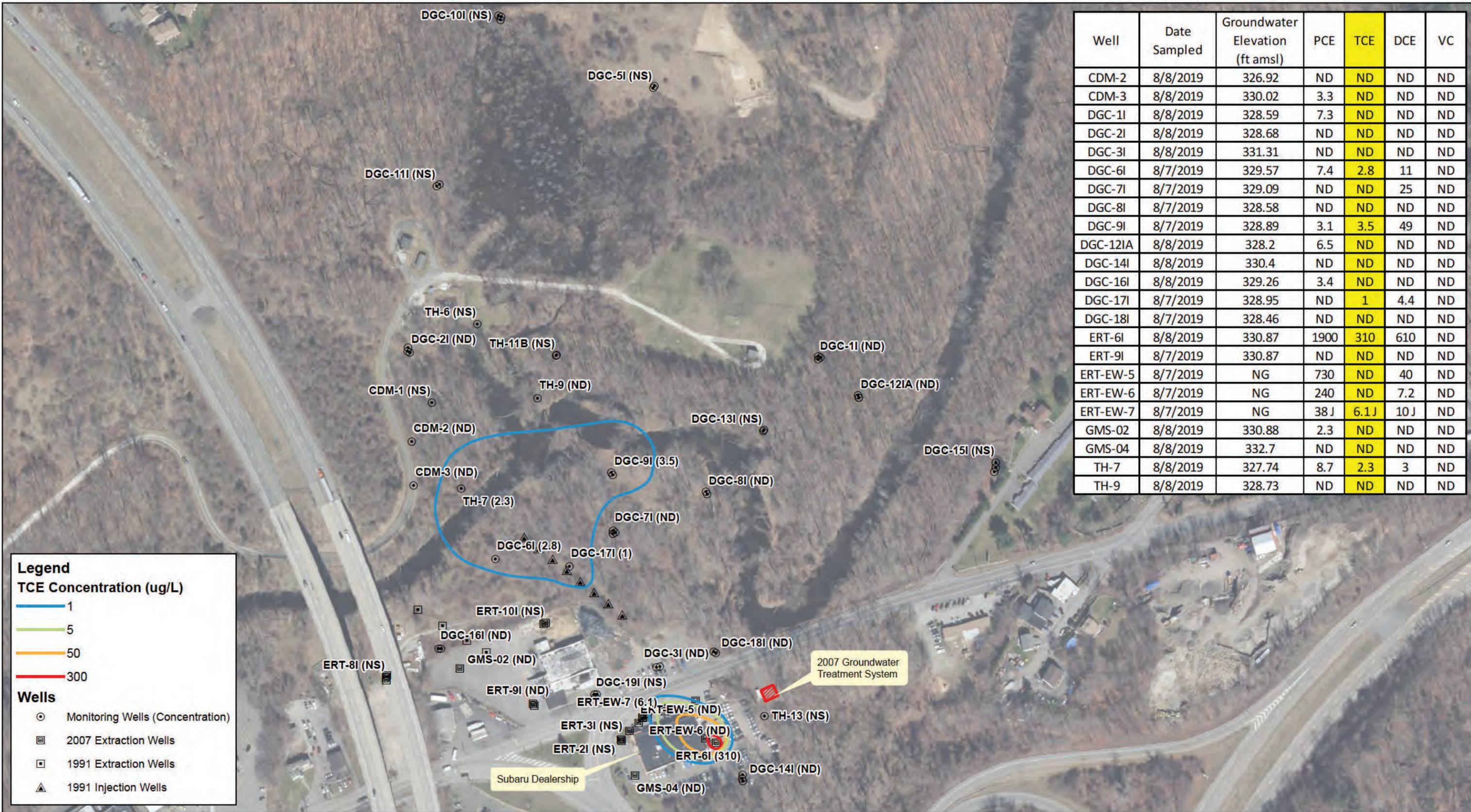
- Notes:
1. All concentration contours are provided in micrograms per liter (ug/L).
  2. GWTS - Groundwater Treatment System
  3. NG - Not Gauged
  4. NS - Not Sampled
  5. ND - Not Detected
  6. PCE - tetrachloroethene
  7. TCE - trichloroethene
  8. DCE - cis-1,2-dichloroethene
  9. VC - vinyl chloride

## Groundwater TCE Concentrations for Intermediate Wells - May 2018



Brewster Village Well Field  
Brewster, NY  
Figure 7





Well	Date Sampled	Groundwater Elevation (ft amsl)	PCE	TCE	DCE	VC
CDM-2	8/8/2019	326.92	ND	ND	ND	ND
CDM-3	8/8/2019	330.02	3.3	ND	ND	ND
DGC-1I	8/8/2019	328.59	7.3	ND	ND	ND
DGC-2I	8/8/2019	328.68	ND	ND	ND	ND
DGC-3I	8/8/2019	331.31	ND	ND	ND	ND
DGC-6I	8/7/2019	329.57	7.4	2.8	11	ND
DGC-7I	8/7/2019	329.09	ND	ND	25	ND
DGC-8I	8/7/2019	328.58	ND	ND	ND	ND
DGC-9I	8/7/2019	328.89	3.1	3.5	49	ND
DGC-12IA	8/8/2019	328.2	6.5	ND	ND	ND
DGC-14I	8/8/2019	330.4	ND	ND	ND	ND
DGC-16I	8/8/2019	329.26	3.4	ND	ND	ND
DGC-17I	8/7/2019	328.95	ND	1	4.4	ND
DGC-18I	8/7/2019	328.46	ND	ND	ND	ND
ERT-6I	8/8/2019	330.87	1900	310	610	ND
ERT-9I	8/7/2019	330.87	ND	ND	ND	ND
ERT-EW-5	8/7/2019	NG	730	ND	40	ND
ERT-EW-6	8/7/2019	NG	240	ND	7.2	ND
ERT-EW-7	8/7/2019	NG	38 J	6.1 J	10 J	ND
GMS-02	8/8/2019	330.88	2.3	ND	ND	ND
GMS-04	8/8/2019	332.7	ND	ND	ND	ND
TH-7	8/8/2019	327.74	8.7	2.3	3	ND
TH-9	8/8/2019	328.73	ND	ND	ND	ND

**Legend**

**TCE Concentration (ug/L)**

- 1
- 5
- 50
- 300

**Wells**

- Monitoring Wells (Concentration)
- 2007 Extraction Wells
- 1991 Extraction Wells
- 1991 Injection Wells

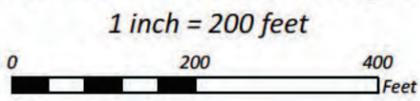


**Notes:**

- All concentration contours are provided in micrograms per liter (ug/L).
- ft amsl - feet above mean sea level
- NG - not gauged
- NS - not sampled

5. ND - not detected
6. PCE - tetrachloroethene
7. TCE - trichloroethene
8. DCE - cis-1,2-dichloroethene
9. VC - vinyl chloride

## Groundwater TCE Concentrations for Intermediate Wells - August 2019



Brewster Village Well Field  
Brewster, NY  
Figure 7





Well	Date Sampled	Groundwater Elevation (ft amsl)	PCE	TCE	DCE	VC
DGC-1I	9/30/2020	329.36	6.8	1.4 J	0.34 J	ND
DGC-3I	9/29/2020	330.58	0.36 J	ND	ND	ND
DGC-6I	9/29/2020	330.46	5.2	1.5 J	6.2	ND
DGC-7I	9/30/2020	330.37	0.39 J	0.25 J	16	ND
DGC-8I	9/30/2020	330.60	ND	ND	ND	ND
DGC-9I	9/30/2020	330.34	0.27 J	2.6 J	21	ND
DGC-12IA	9/30/2020	329.58	6	ND	ND	ND
DGC-13I	9/30/2020	329.57	ND	ND	ND	ND
DGC-14I	10/1/2020	330.32	ND	ND	ND	ND
DGC-16I	9/30/2020	330.62	2 J	0.42 J	ND	ND
DGC-17I	9/30/2020	330.66	1.2 J	0.67 J	3.7 J	ND
DGC-18I	9/30/2020	330.67	ND	ND	ND	0.22 J
ERT-1I	10/1/2020	330.65	110	3.5 J	ND	ND
ERT-2I	10/1/2020	330.76	ND	ND	ND	ND
ERT-5I	10/1/2020	330.53	22	5.7	7.4	ND
ERT-6I	10/1/2020	330.63	1400	220	700	27 J
ERT-7I	10/1/2020	330.94	0.39 J	ND	ND	ND
ERT-8I	9/30/2020	330.64	0.92 J	0.3 J	ND	ND
ERT-9I	9/29/2020	330.51	ND	ND	ND	ND
ERTEW5	9/30/2020	NG	690 D	21	90	ND
ERTEW6	9/30/2020	NG	52	4 J	44	ND
ERTEW7	10/1/2020	NG	630	14 J	56	3.8 J
GMS-02	9/29/2020	330.50	2.3 J	0.48 J	ND	ND
TH-7	10/1/2020	329.46	1.9 J	0.8 J	2.1 J	ND
TH-9	9/30/2020	329.32	ND	ND	ND	ND

**Legend**

**TCE Concentration (ug/L)**

- 1 (Blue line)
- 5 (Green line)
- 20 (Orange line)
- 200 (Red line)

**Wells**

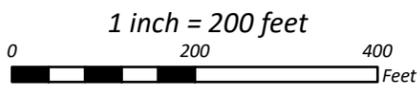
- Monitoring Wells (TCE Concentration)
- 2007 Extraction Wells
- 1991 Extraction Wells
- 1991 Injection Wells



Notes:

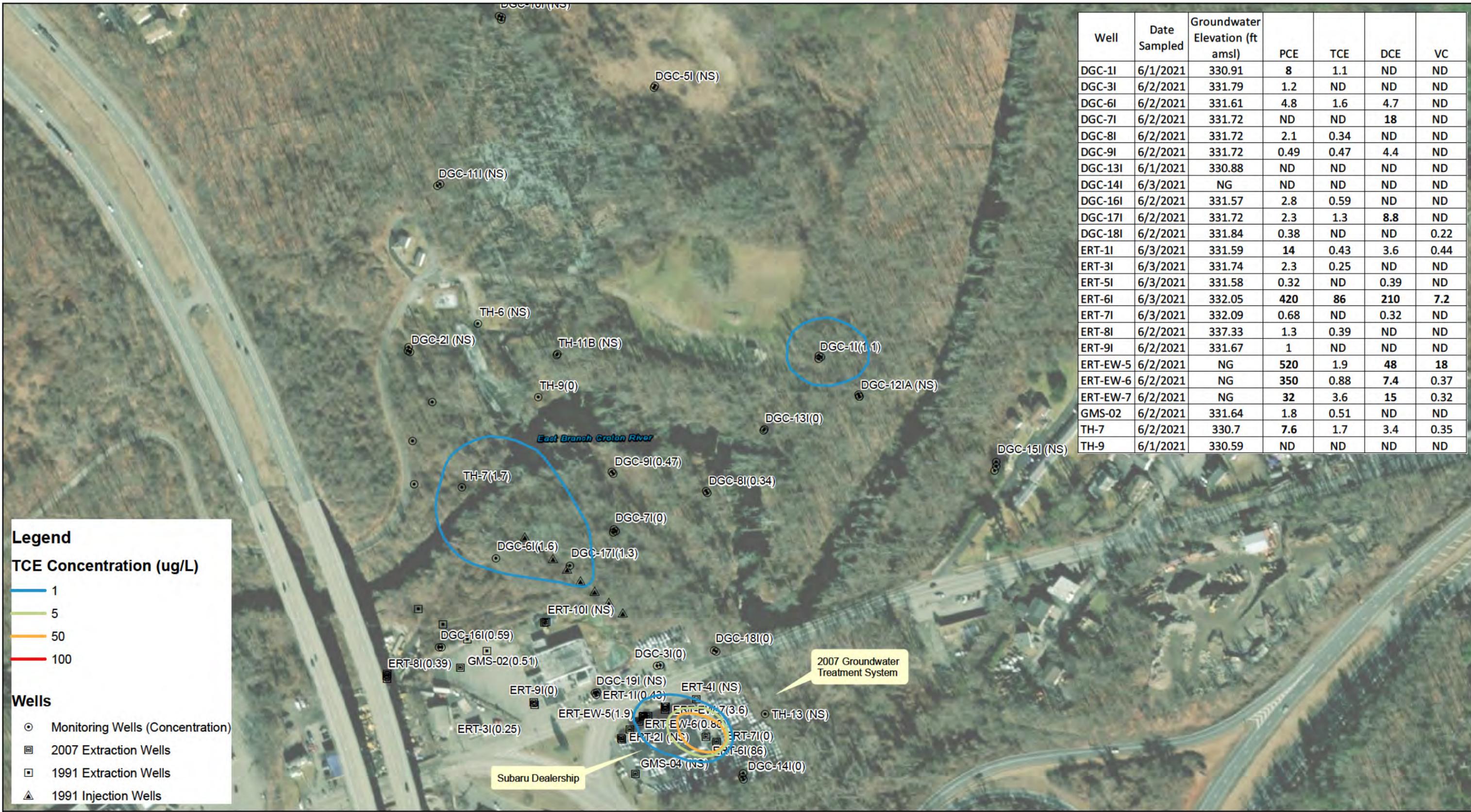
- All concentration contours are provided in micrograms per liter (ug/L).
- ft amsl - feet above mean sea level
- NG - not gauged
- ND - not detected
- PCE - tetrachloroethene
- TCE - trichloroethene
- DCE - cis-1,2-dichloroethene
- VC - vinyl chloride

## Groundwater TCE Concentrations for Intermediate Wells - September & October 2020



Brewster Village Well Field  
Brewster, NY  
Figure 3-3





**Legend**

**TCE Concentration (ug/L)**

- 1
- 5
- 50
- 100

**Wells**

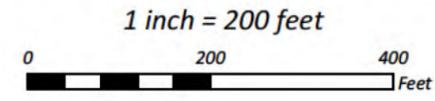
- Monitoring Wells (Concentration)
- 2007 Extraction Wells
- 1991 Extraction Wells
- 1991 Injection Wells



- Notes:**
- All concentration contours are provided in micrograms per liter (ug/L).
  - ft amsl - feet above mean sea level
  - NG - not gauged
  - NS - not sampled

5. ND - not detected
6. PCE - tetrachloroethene
7. TCE - trichloroethene
8. DCE - cis-1,2-dichloroethene
9. VC - vinyl chloride

## Groundwater TCE Concentrations for Intermediate Wells - June 2021



Brewster Village Well Field  
Brewster, NY  
Figure 3-3





Well	Date Sampled	TCE (µg/L)	Groundwater Elevation (ft amsl)
TH-7	8/22/2023	0.77	330.72
ERT-EW-7	8/22/2023	4	332.54
ERT-EW-6	8/22/2023	0.79	332.82
ERT-EW-5	8/22/2023	16	331.81
ERT-9I	8/21/2023	0	331.88
ERT-7I	8/22/2023	0	332.31
ERT-6I	8/22/2023	120	332.36
ERT-5I	8/22/2023	0	331.69
ERT-3I	8/21/2023	0.25	331.92
ERT-1S	8/22/2023	0	332.14
DGC-8I	8/21/2023	0	331.85
DGC-6I	8/21/2023	1.4	330.73
DGC-3I	8/21/2023	0	331.97
DGC-1I	8/22/2023	0.26	330.78
DGC-16I	8/21/2023	0.18	331.77
DGC-14IA	8/21/2023	0	330.97
CDM-3	8/21/2023	1	331.28

**Legend**

**TCE Concentration (µg/L) Value**

- 1
- 5
- 25
- 50

**Wells**

**Symbol Type**

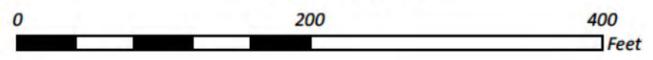
- Monitoring Wells (Concentration)
- 2007 Extraction Wells
- 1991 Extraction Wells
- 1991 Injection Wells

**Notes:**

- All concentration contours are provided in micrograms per liter (µg/L).
- Non-detect results assigned values equal to 0 µg/L
- TCE - trichloroethene

## Groundwater TCE Concentrations for Intermediate Wells — August 2023

1 inch = 125 feet

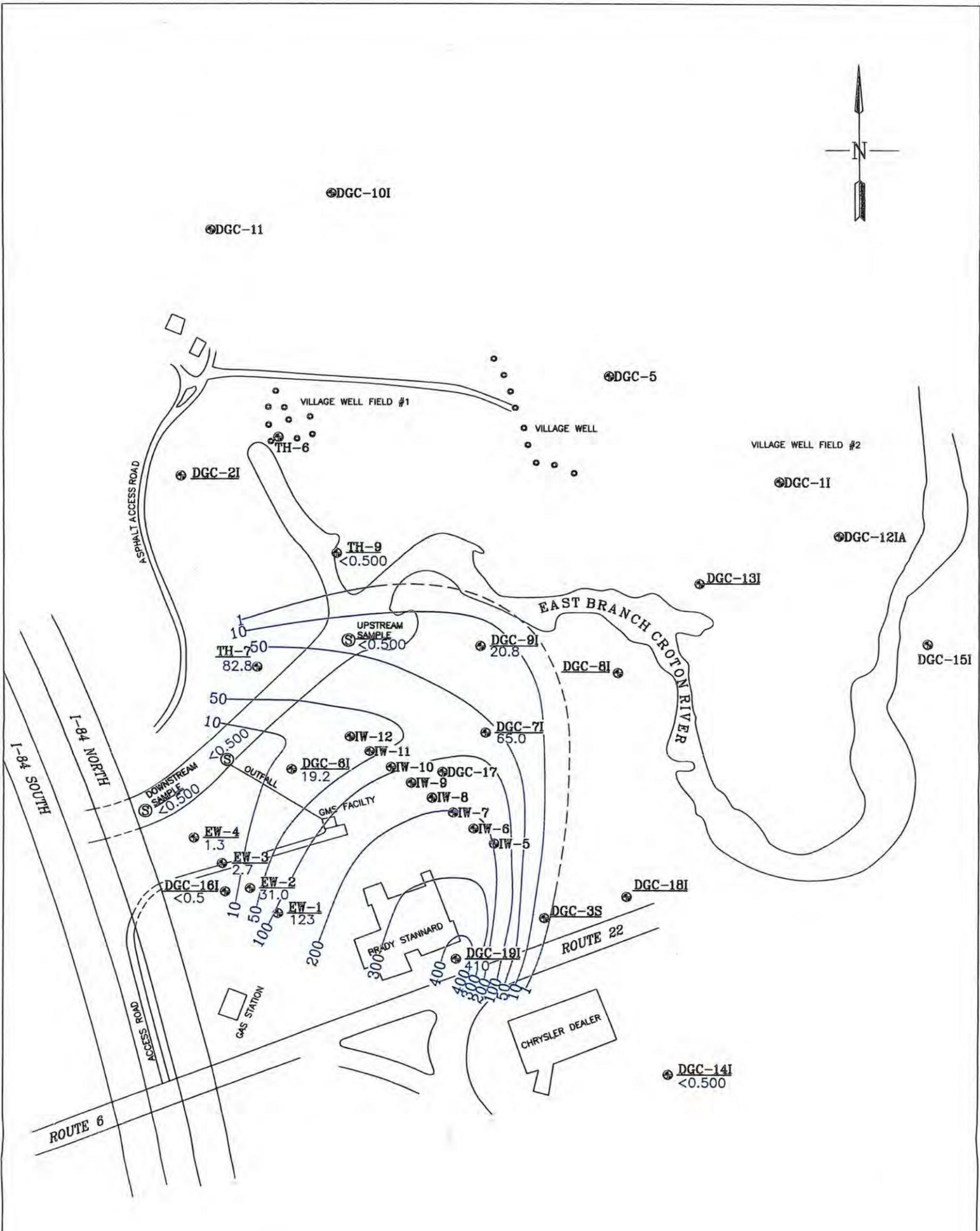
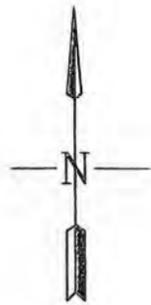


Brewster Village Well Field  
Brewster, NY  
Figure 4-8



# Historical cis-1,2-Dichloroethelyene (DCE) Isoconcentration Plots

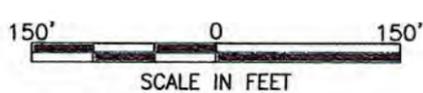
May 2005 Through



**LEGEND**

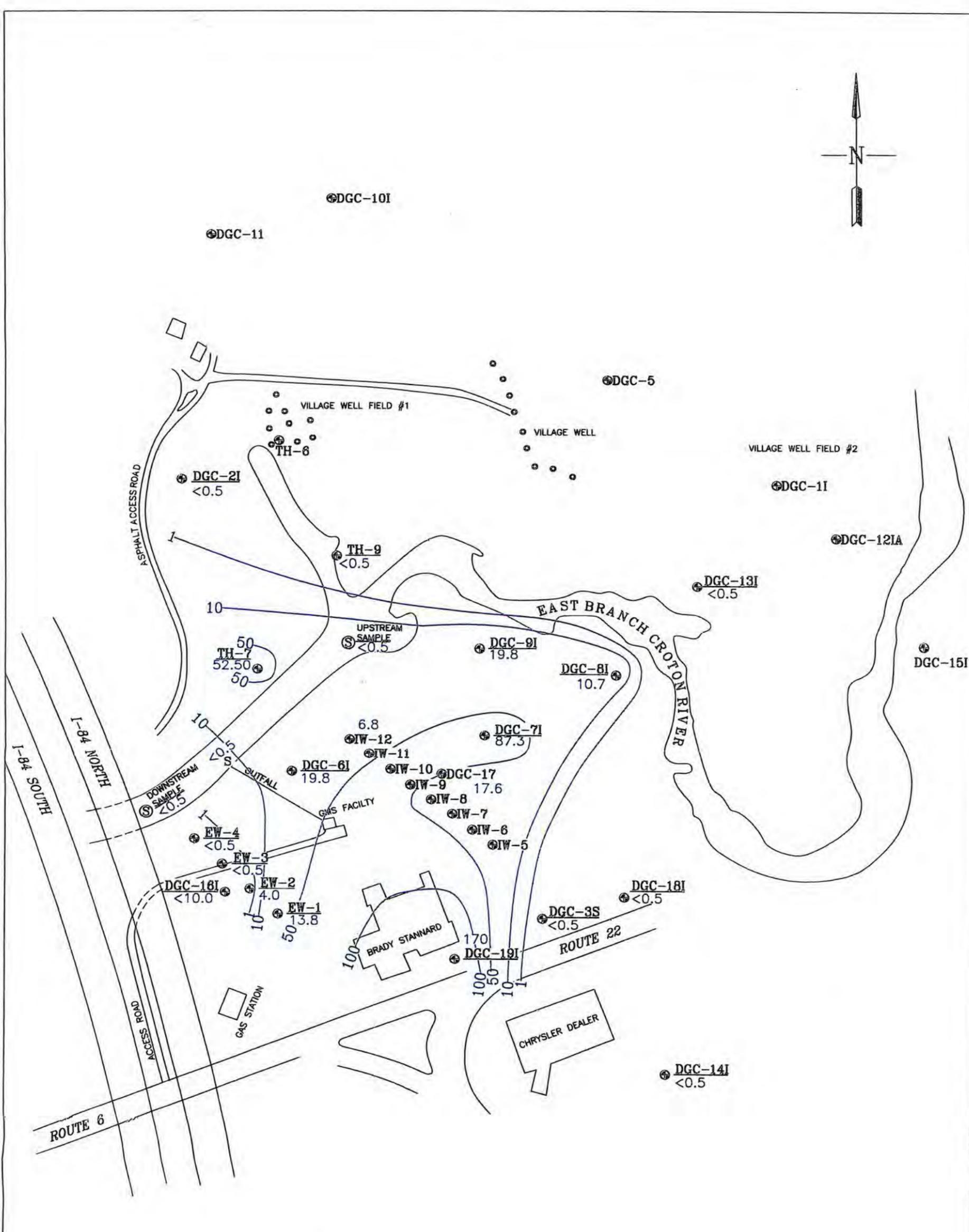
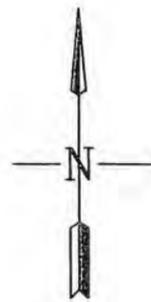
- DGC-7I**  
65.0  
MONITORING WELL LOCATION  
CIS-1,2-DCE CONCENTRATION (µg/L)
- 10**  
ISOCONCENTRATION LINE (DASHED WHERE INFERRED)

- NOTES:
1. UNEVEN CONTOUR INTERVALS WERE USED TO MORE ACCURATELY DEPICT THE CONTAMINANT PLUME.
  2. ORIGINAL DRAWING PROVIDED BY SEVENSON ENVIRONMENTAL SERVICES, INC.



<b>SEVENSON</b>			
BREWSTER WELL FIELD			
CIS-1,2-DICHLOROETHENE			
ISOCONCENTRATION CONTOUR MAP			
(MARCH 2005)			
drawn <i>DAK</i>	checked	approved	figure no. <b>7</b>
date <i>05/02/05</i>	date	date	
job no. <i>01-1408-04-1548-000</i>	file no. <i>1548-007.dwg</i>		





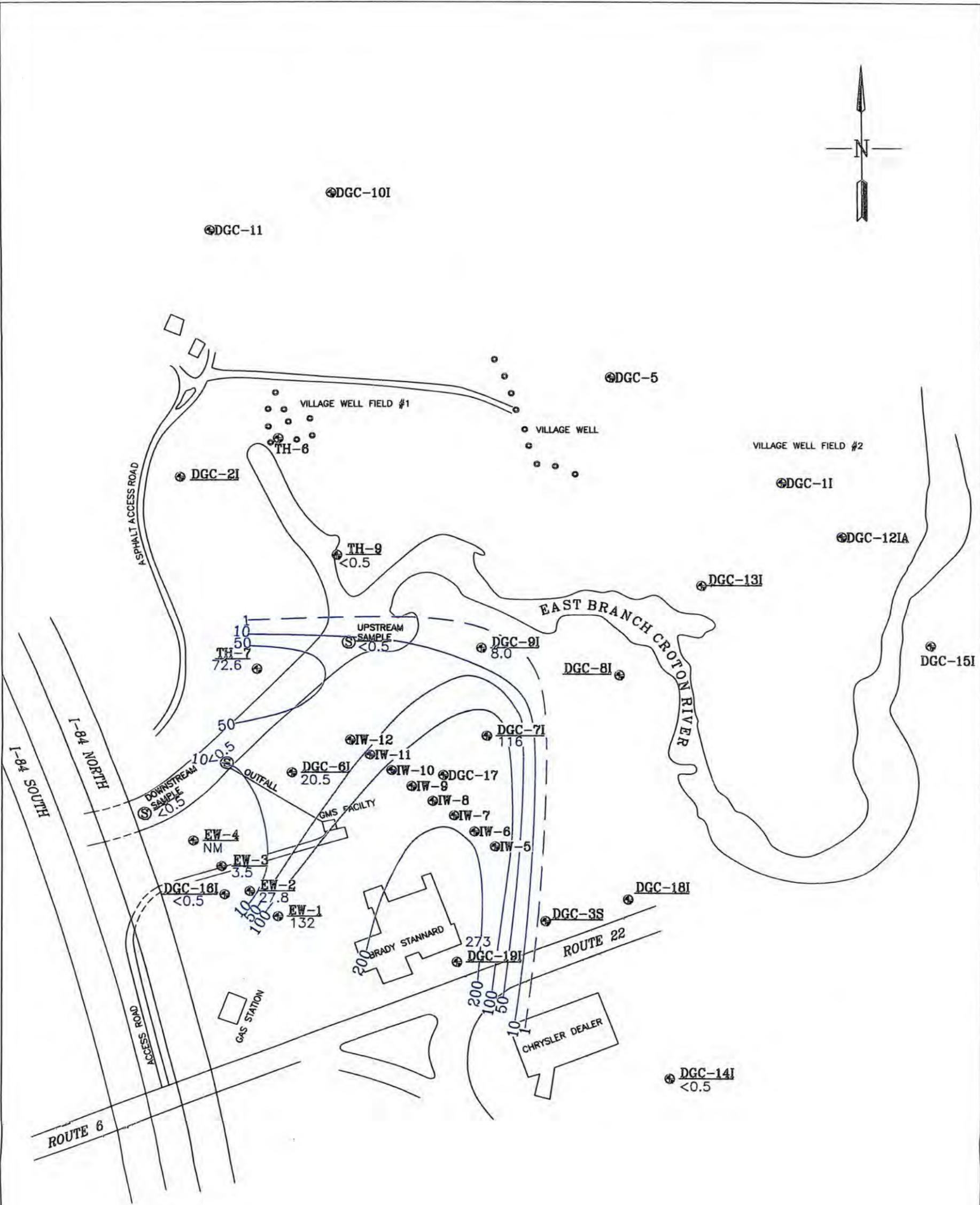
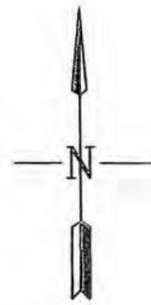
**LEGEND**

- ⊕ **DGC-7I**  
77.0 MONITORING WELL LOCATION  
CIS-1,2-DCE CONCENTRATION (µg/L)
- 10 ISOCONCENTRATION LINE (DASHED WHERE INFERRED)

- NOTES:
1. UNEVEN CONTOUR INTERVALS WERE USED TO MORE ACCURATELY DEPICT THE CONTAMINANT PLUME.
  2. ORIGINAL DRAWING PROVIDED BY SEVENSON ENVIRONMENTAL SERVICES, INC.



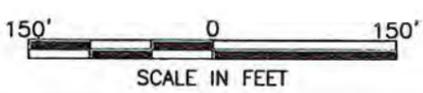
<b>SEVENSON</b>			
BREWSTER WELL FIELD			
CIS-1,2-DICHLOROETHENE			
ISOCONCENTRATION CONTOUR MAP			
(SEPTEMBER 2005)			
drawn <i>DAK</i>	checked <i>MJR</i>	approved <i>RCC</i>	figure no. <b>7</b>
date 11/17/05	date 11/17/05	date 11/17/05	
job no. 01-1633-04-2388-200		file no. 1548-007.dwg	



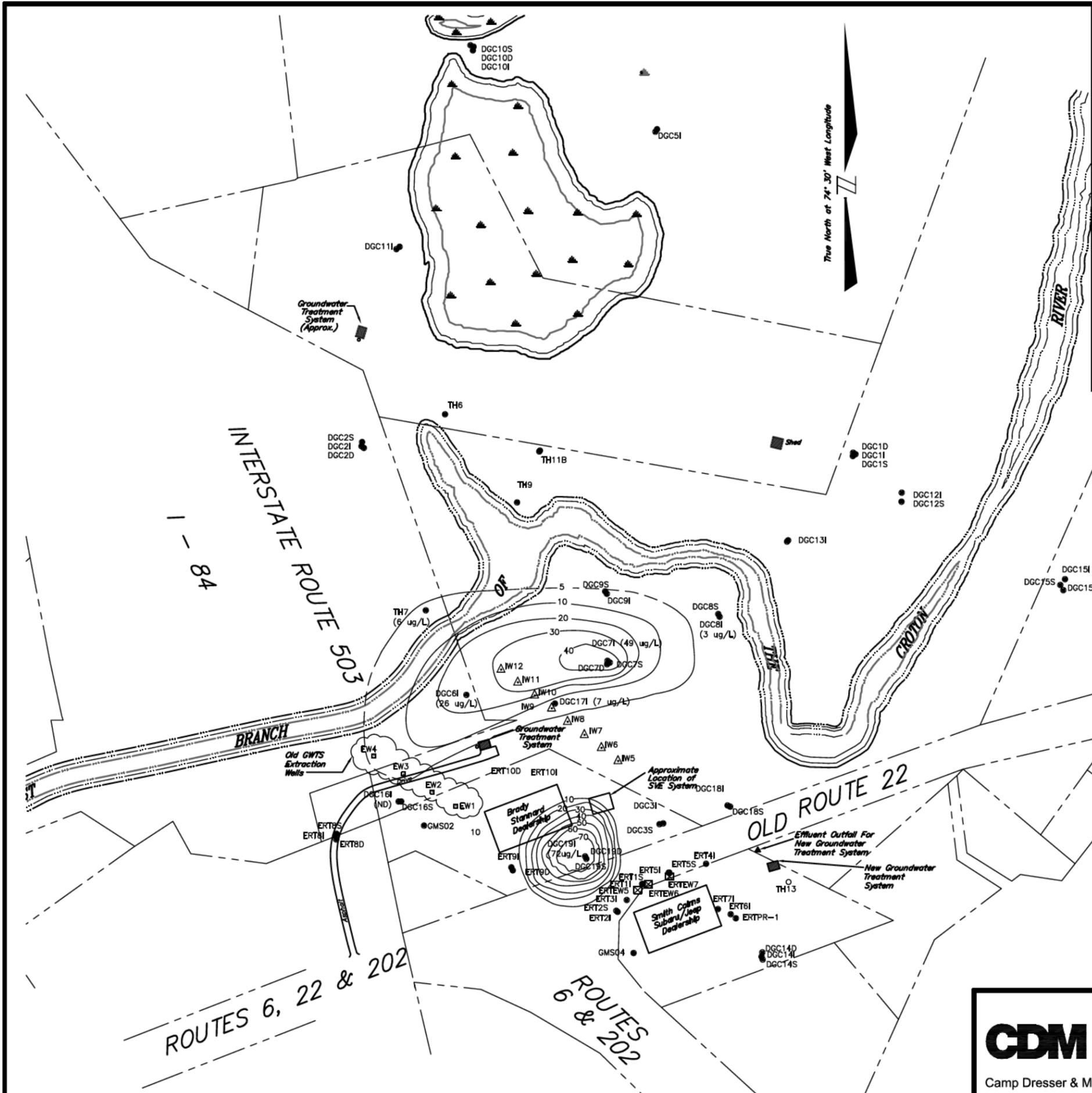
**LEGEND**

- 
**DGC-7I**  
116  
MONITORING WELL LOCATION  
CIS-1,2-DCE CONCENTRATION ( $\mu\text{g/L}$ )
- 
**10**  
ISOCONCENTRATION LINE (DASHED WHERE INFERRED)

- NOTES:
1. UNEVEN CONTOUR INTERVALS WERE USED TO MORE ACCURATELY DEPICT THE CONTAMINANT PLUME.
  2. ORIGINAL DRAWING PROVIDED BY SEVENSON ENVIRONMENTAL SERVICES, INC.

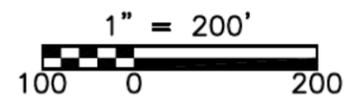


<b>SEVENSON</b>			
BREWSTER WELL FIELD			
CIS-1,2-DICHLOROETHENE			
ISOCONCENTRATION CONTOUR MAP			
(DECEMBER 2005)			
drawn <i>DAK</i>	checked <i>MJR</i>	approved <i>RCC</i>	figure no. <b>7</b>
date 01/19/06	date 01/19/06	date 01/19/06	
job no. 01-1633-04-2388-200		file no. 1548-007.dwg	
 <b>SAIC Science Applications International Corporation</b> <small>From Science to Solutions™</small>			

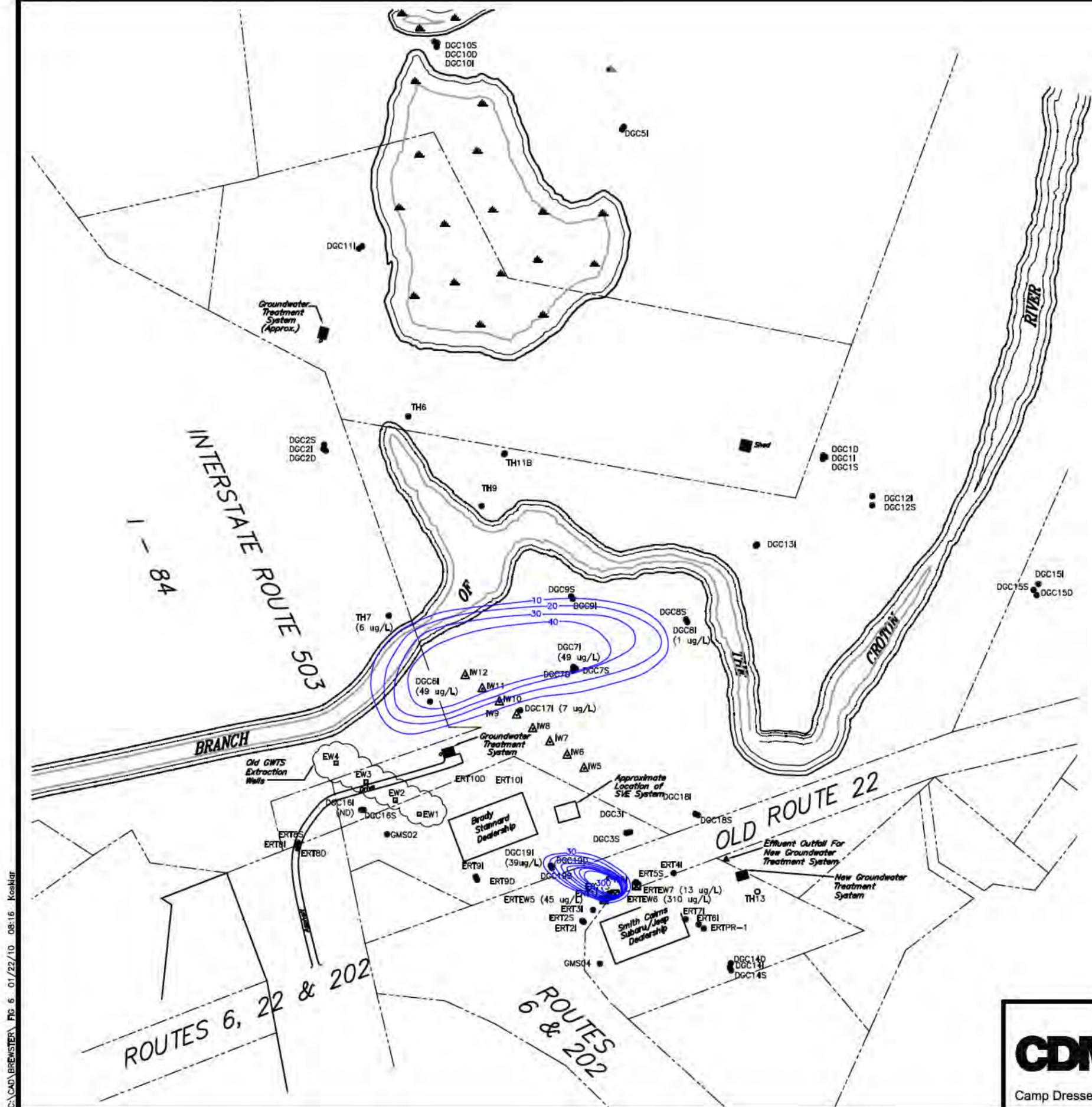


LEGEND	
● DGC5I (330.49)	Monitoring Well with Designation (Groundwater Elevation, FT BGS)
□ EW1	Old GWTS Extraction Well with Designation
△ IW1	Old GWTS Injection Well with Designation
⊠ ERT-EW5	New GWTS Extraction Well with Designation
---	Approximate Property Line
— 30 —	Isoconcentration Line

This map was prepared for the exclusive use of and is certified only to:  
SEVENSON ENVIRONMENTAL SERVICES, INC.



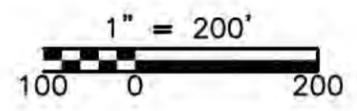
 Camp Dresser & McKee	<b>BREWSTER VILLAGE WELL FIELD</b>	1,2-DICHLOROETHENE ISOCONCENTRATION INTERMEDIATE WELLS	FIGURE NO.
		MAY 2008	6



**LEGEND**

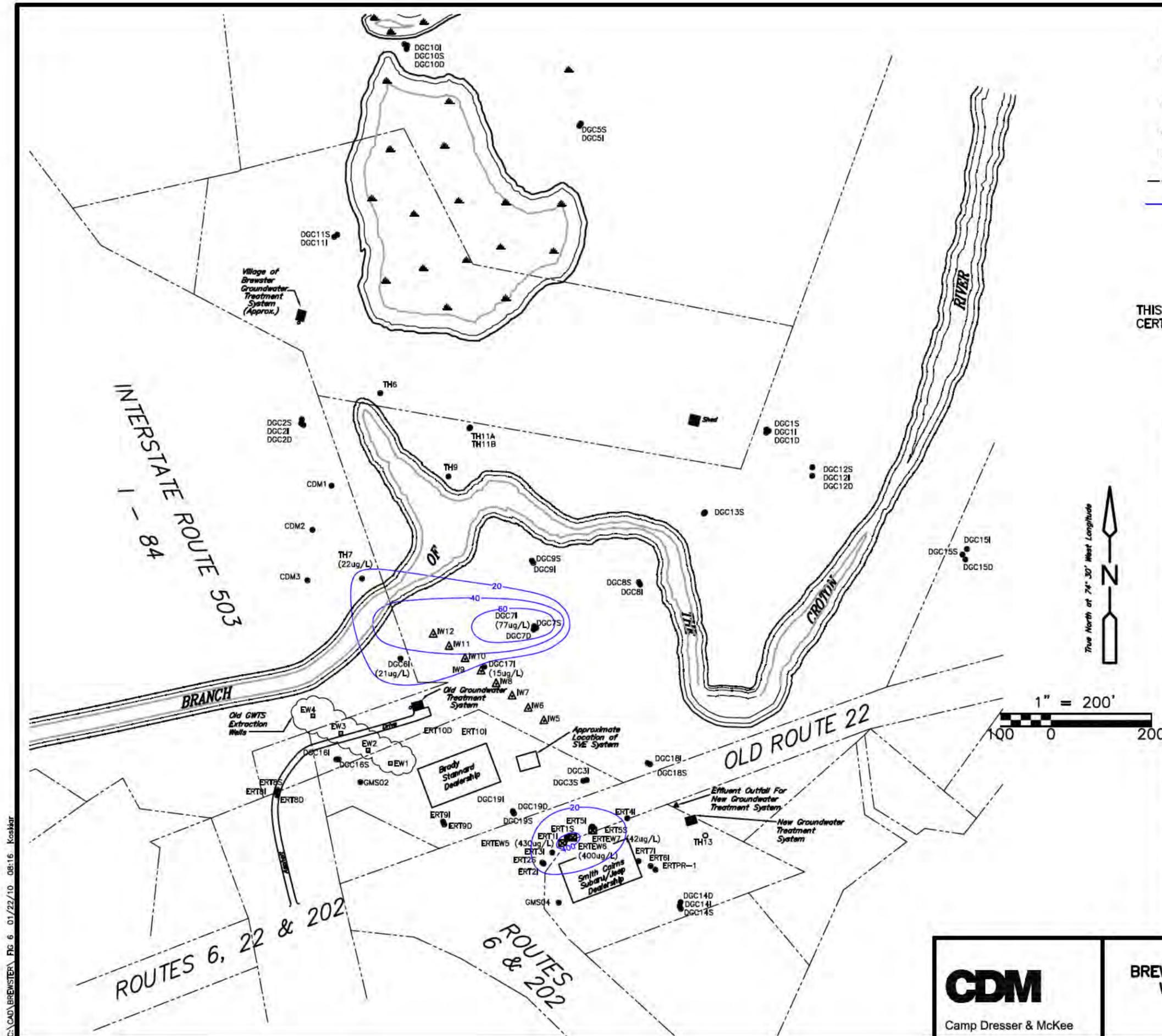
- DGC51 (8 ug/L) MONITORING WELL WITH DESIGNATION (ISOCONCENTRATION, ug/L)
- EW1 OLD GWTS EXTRACTION WELL WITH DESIGNATION
- △ IW1 OLD GWTS INJECTION WELL WITH DESIGNATION
- ⊠ ERT-EW5 NEW GWTS EXTRACTION WELL WITH DESIGNATION
- APPROXIMATE PROPERTY LINE
- 30— ISOCONCENTRATION CONTOUR LINE

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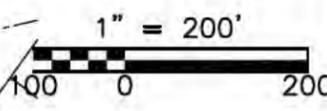
 Camp Dresser & McKee	<b>BREWSTER VILLAGE WELL FIELD</b>	<b>1,2-DICHLOROETHENE ISOCONCENTRATION INTERMEDIATE WELLS</b>	<b>FIGURE NO.</b>
		APRIL 2009	6



- LEGEND**
- DGC (8 ug/L) MONITORING WELL WITH DESIGNATION (1,2-DICHLOROETHENE CONCENTRATION, ug/L)
  - EW OLD GWTS EXTRACTION WELL WITH DESIGNATION
  - △ IW OLD GWTS INJECTION WELL WITH DESIGNATION
  - ⊠ ERT-EW NEW GWTS EXTRACTION WELL WITH DESIGNATION
  - APPROXIMATE PROPERTY LINE
  - 20— ISOCONCENTRATION CONTOUR LINE CONTOUR INTERVAL 20 ug/L

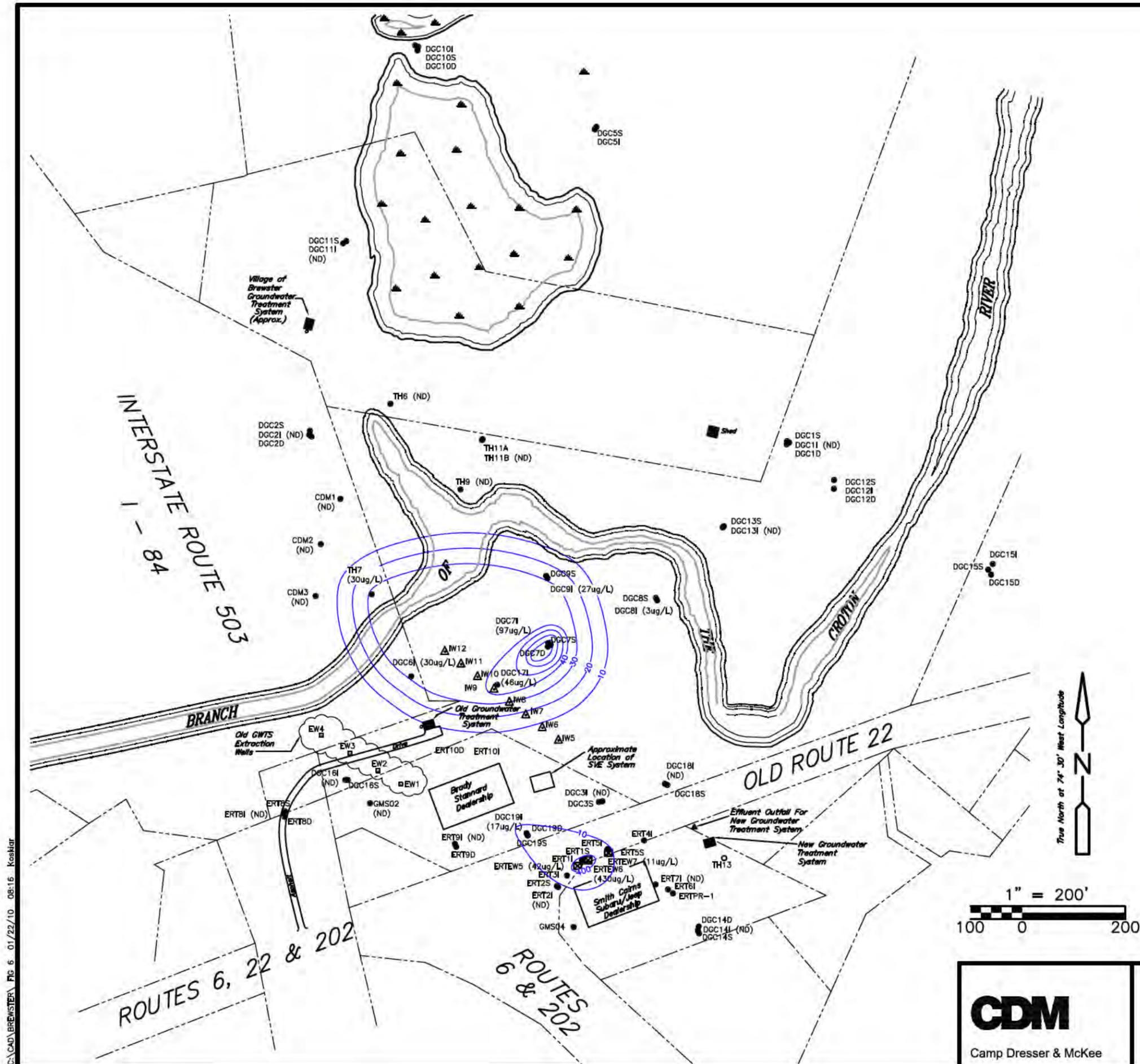
THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.

Groundwater Samples Collected 12/27/11-12/29/11			
Well	Tetrachloroethene (ug/L)	1,2-Dichloroethene (total) (ug/L)	Vinyl chloride (ug/L)
DGC-1I	1	ND	ND
DGC-2I	ND	ND	ND
DGC3I	ND	ND	ND
DGC6I	19	27	ND
DGC7I	3	77	1
DGC8I	ND	ND	ND
DGC9I	3	ND	ND
DGC11I	ND	ND	ND
DGC13I	ND	ND	ND
DGC14I	ND	ND	ND
DGC16I	2	ND	ND
DGC17I	15	15	ND
DGC18I	ND	ND	ND
DGC19I	ND	ND	ND
CDM1	ND	ND	ND
CDM2	ND	ND	ND
CDM3	7	ND	ND
ERT-2I	ND	ND	ND
ERT-7I	ND	ND	ND
ERT-8I	ND	ND	ND
ERT-9I	ND	ND	ND
ERT-EW5	200	430	100
ERT-EW6	200	400	100
ERT-EW7	87	42	1
GMS-02	ND	ND	ND
TH-11B	ND	ND	ND
TH-6	ND	ND	ND
TH-7	29	22	5



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 Camp Dresser & McKee	<b>BREWSTER VILLAGE WELL FIELD</b>	<b>1,2-DICHLOROETHENE ISOCONCENTRATION INTERMEDIATE WELLS</b>	<b>FIGURE NO.</b>
		DECEMBER 2010	6

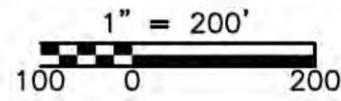


**LEGEND**

- DGC6I (30 ug/L) MONITORING WELL WITH DESIGNATION (1,2-DICHLOROETHENE CONCENTRATION, ug/L)
- EW1 OLD GWTS EXTRACTION WELL WITH DESIGNATION
- △ IW1 OLD GWTS INJECTION WELL WITH DESIGNATION
- ⊠ ERT-EW5 NEW GWTS EXTRACTION WELL WITH DESIGNATION
- APPROXIMATE PROPERTY LINE
- 20— ISOCONCENTRATION CONTOUR LINE CONTOUR INTERVAL 20 ug/L

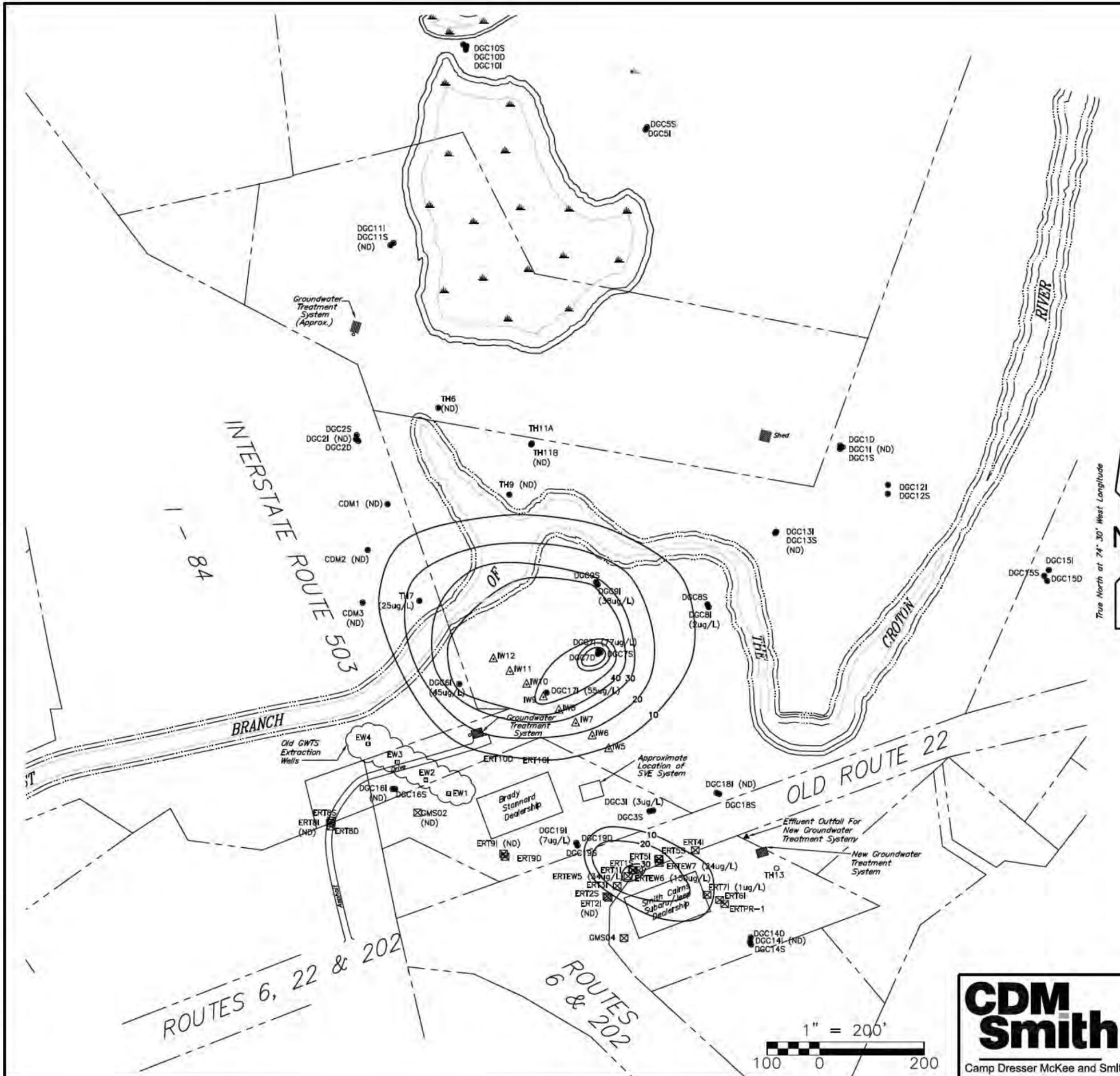
THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.

Groundwater Samples Collected 5/18/2011-5/21/2011			
Well	Tetrachloroethene (µg/L)	1,2-Dichloroethene (total) (µg/L)	Vinyl chloride (µg/L)
DGC-1I	ND	ND	ND
DGC-2I	ND	ND	ND
DGC3I	ND	ND	ND
DGC6I	16	30	ND
DGC7I	3	97	ND
DGC8I	4	3	ND
DGC9I	12	27	ND
DGC11I	ND	ND	ND
DGC13I	ND	ND	ND
DGC14I	ND	ND	ND
DGC16I	1	ND	ND
DGC17I	6	46	ND
DGC18I	ND	ND	ND
DGC19I	4	17	2
CDM1	ND	ND	ND
CDM2	ND	ND	ND
CDM3	14	ND	ND
ERT-2I	ND	ND	ND
ERT-7I	ND	ND	ND
ERT-8I	2	ND	ND
ERT-9I	ND	ND	ND
ERT-EW5	920	42	200
ERT-EW6	190	430	90
ERT-EW7	51	11	ND
GMS-02	6	ND	ND
TH-11B	ND	ND	ND
TH-6	ND	ND	ND
TH-7	36	30	ND
TH-9	ND	ND	ND



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 Camp Dresser & McKee	<b>BREWSTER VILLAGE WELL FIELD</b>	<b>1,2-DICHLOROETHENE ISOCONCENTRATION INTERMEDIATE WELLS</b>	<b>FIGURE NO.</b>
		MAY 2011	6



**LEGEND**

- DGC6I (45ug/L) MONITORING WELL WITH DESIGNATION (TETRACHLOROETHENE CONCENTRATION, ug/L)
- EW1 OLD GWTS EXTRACTION WELL WITH DESIGNATION
- △ IW1 OLD GWTS INJECTION WELL WITH DESIGNATION
- ⊠ ERT-1 NEW GWTS EXTRACTION WELL WITH DESIGNATION
- - - - - APPROXIMATE PROPERTY LINE
- 20 — ISOCONCENTRATION CONTOUR LINE CONTOUR INTERVAL 10ug/L

THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.

Groundwater Samples Collected November 2012			
Well	Tetrachloroethene (ug/L)	1,2-Dichloroethene (total) (ug/L)	Vinyl chloride (ug/L)
DGC-1I	7	ND	ND
DGC-2I	ND	ND	ND
DGC3I	5	3	ND
DGC6I	13	45	ND
DGC7I	ND	77	2
DGC8I	2	2	ND
DGC9I	6	38	ND
DGC11I	ND	ND	ND
DGC13I	ND	ND	ND
DGC14I	ND	ND	ND
DGC16I	11	ND	ND
DGC17I	5	55	ND
DGC18I	ND	ND	ND
DGC19I	4	7	1
CDM1	ND	ND	ND
CDM2	ND	ND	ND
CDM3	8	ND	ND
ERT-2I	ND	ND	ND
ERT-7I	2	1	ND
ERT-8I	2	ND	ND
ERT-9I	ND	ND	ND
ERT-EW5	530	34	3
ERT-EW6	10	150	81
ERT-EW7	57	24	2
GMS-02	4	ND	ND
TH-11B	ND	ND	ND
TH-6	ND	ND	ND
TH-7	29	25	4
TH-9	ND	ND	ND



**BREWSTER VILLAGE WELL FIELD**

1,2-DICHLOROETHENE ISOCONCENTRATION INTERMEDIATE WELLS  
NOVEMBER 2012

FIGURE NO.  
6

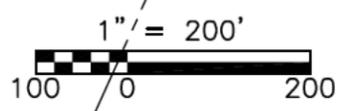
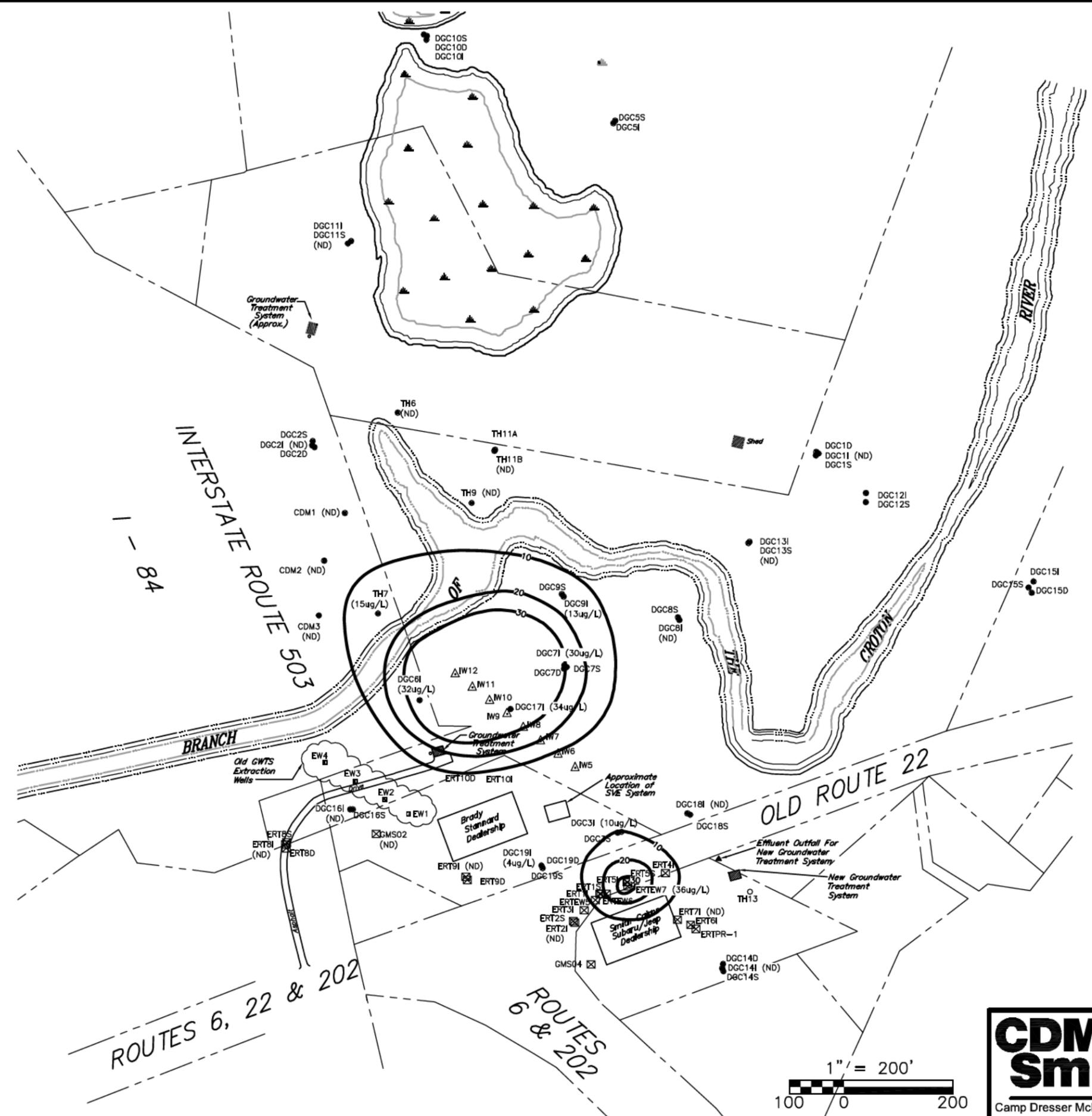
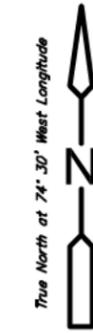
**LEGEND**

- DGC6I (32ug/L) MONITORING WELL WITH DESIGNATION (1,2-DICHLOROETHENE CONCENTRATION, ug/L)
- EW1 OLD GWTS EXTRACTION WELL WITH DESIGNATION
- △ IW1 OLD GWTS INJECTION WELL WITH DESIGNATION
- ⊠ ERT-1 NEW GWTS EXTRACTION WELL WITH DESIGNATION
- - - - - APPROXIMATE PROPERTY LINE
- 20 — ISOCONCENTRATION CONTOUR LINE CONTOUR INTERVAL 10ug/L

THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.

Groundwater Samples Collected April 2013

Well	1,2-Dichloroethene (total) (ug/L)
DGC-1I	ND
DGC-2I	ND
DGC3I	10
DGC6I	32
DGC7I	30
DGC8I	ND
DGC9I	13
DGC11I	ND
DGC13I	ND
DGC14I	ND
DGC16I	ND
DGC17I	34
DGC18I	ND
DGC19I	4
CDM1	ND
CDM2	ND
CDM3	ND
ERT-2I	ND
ERT-7I	ND
ERT-8I	ND
ERT-9I	ND
ERT-EW5	NS
ERT-EW6	NS
ERT-EW7	36
GMS-02	ND
TH-11B	ND
TH-6	ND
TH-7	15
TH-9	ND



**BREWSTER VILLAGE WELL FIELD**

**1,2-DICHLOROETHENE ISOCONCENTRATION INTERMEDIATE WELLS**  
APRIL 2013

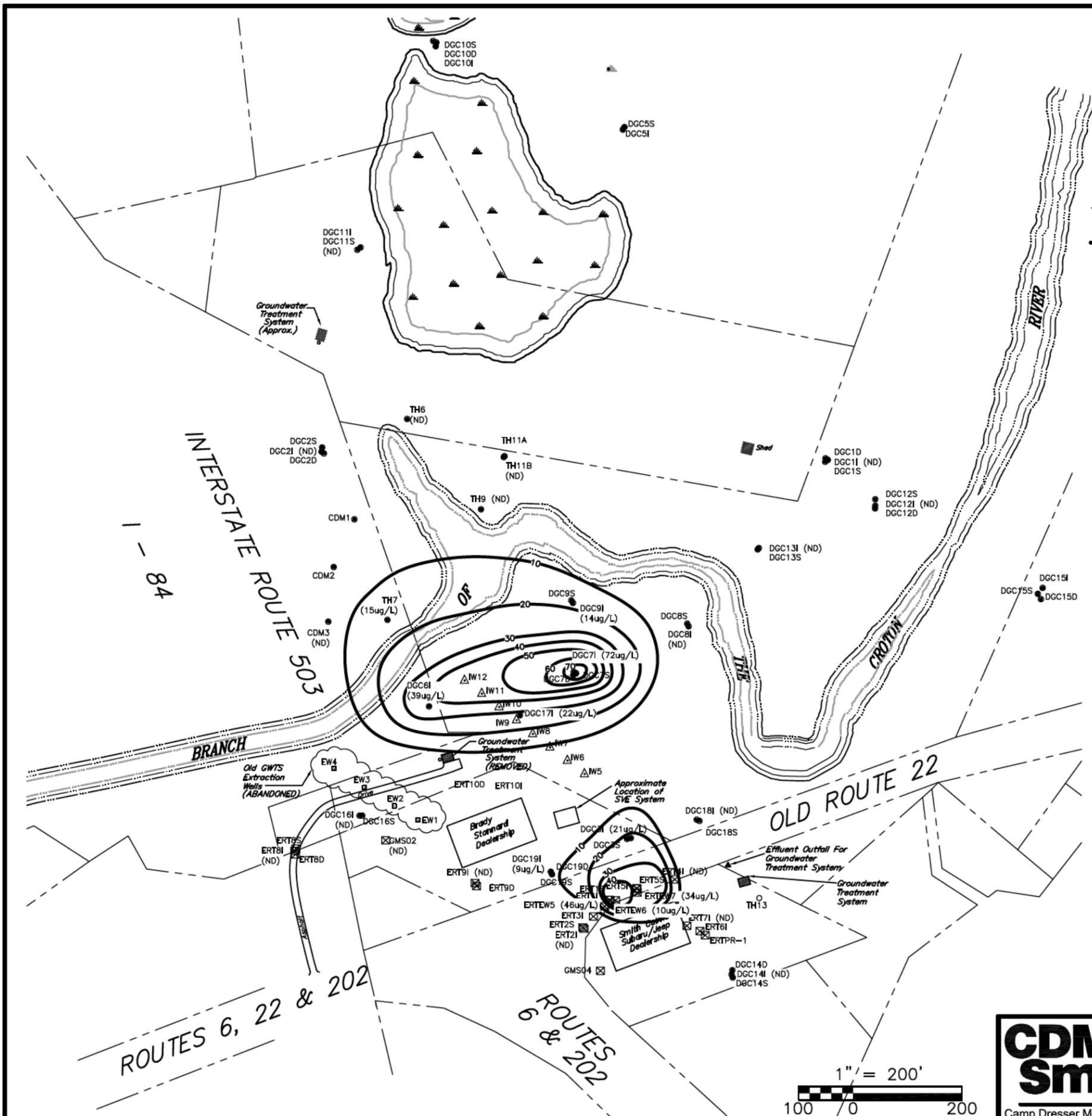
**FIGURE NO.**  
6

**LEGEND**

- DGC61 (39ug/L) MONITORING WELL WITH DESIGNATION (1,2-DICHLOROETHENE CONCENTRATION, ug/L)
- EW1 OLD GWTS EXTRACTION WELL WITH DESIGNATION (ABANDONED)
- △ IW1 OLD GWTS INJECTION WELL WITH DESIGNATION
- ⊠ ERT-1 GWTS EXTRACTION WELL WITH DESIGNATION
- - - - - APPROXIMATE PROPERTY LINE
- 20 — ISOCONCENTRATION CONTOUR LINE  
CONTOUR INTERVAL 10ug/L

THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.

Groundwater Samples Collected April 2014	
Well	1,2-Dichloroethene (total) (µg/L)
DGC-1I	ND
DGC-2I	ND
DGC3I	21
DGC6I	39
DGC7I	72
DGC8I	ND
DGC9I	14
DGC11I	ND
DGC12I	ND
DGC13I	ND
DGC16I	ND
DGC17I	22
DGC18I	ND
DGC19I	9
CDM3	ND
ERT-2I	ND
ERT-4I	ND
ERT-7I	ND
ERT-8I	ND
ERT-9I	ND
ERT-EW5	46
ERT-EW6	10
ERT-EW7	34
GMS-02	ND
TH-7	15
TH-9	ND

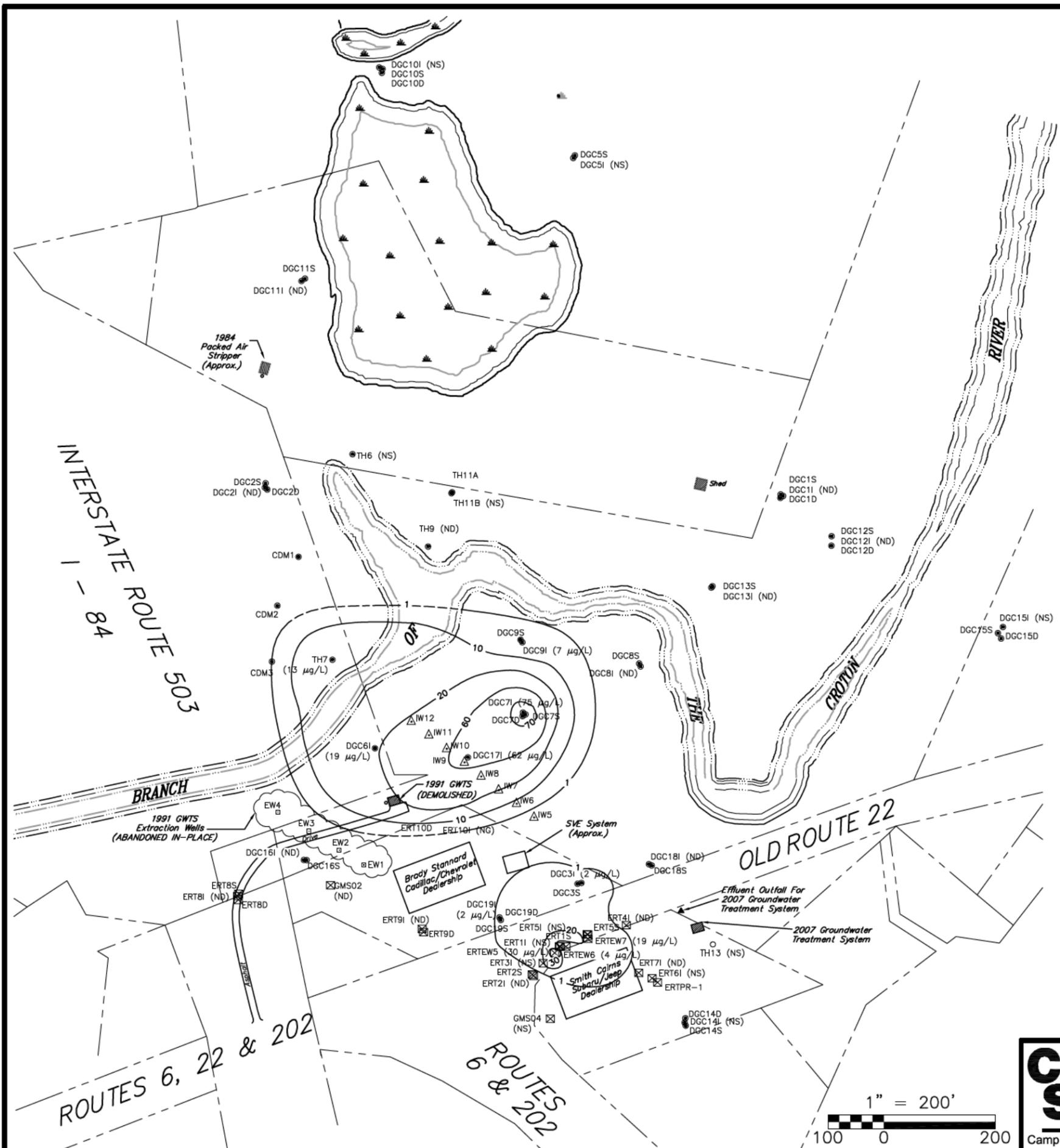


**BREWSTER VILLAGE WELL FIELD**

**1,2-DICHLOROETHENE ISOCONCENTRATION INTERMEDIATE WELLS**  
APRIL 2014

FIGURE NO.  
5

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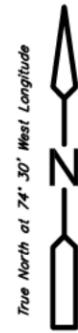
**LEGEND**

- DGCBS (45µg/L)
- EW1
- △ IW1
- ⊠ ERT-1
- APPROX. PROPERTY LINE
- 20 — ISOCONCENTRATION CONTOUR LINE (10 µg/L INTERVAL)

MONITORING WELL (CONCENTRATION)  
 1991 EXTRACTION WELL  
 1991 INJECTION WELL  
 2007 GWTS EXTRACTION WELL

THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.

Well	DCE (µg/l)	PCE (µg/l)	TCE (µg/l)	VC (µg/l)
DGC10I	NS	NS	NS	NS
DGC11I	ND	ND	ND	ND
DGC12I	ND	6	ND	ND
DGC13I	ND	ND	ND	ND
DGC14I	NS	NS	NS	NS
DGC15I	NS	NS	NS	NS
DGC16I	ND	2	ND	ND
DGC17I	62	3	5	ND
DGC18I	ND	ND	ND	ND
DGC19I	2	ND	ND	ND
DGC1I	ND	8	ND	ND
DGC2I	ND	ND	ND	ND
DGC3I	2	3	ND	ND
DGC5I	NS	NS	NS	NS
DGC6I	19	8	4	ND
DGC7I	75	ND	ND	1
DGC8I	ND	ND	ND	ND
DGC9I	7	3	4	ND
ERT1I	NS	NS	NS	NS
ERT2I	ND	ND	ND	ND
ERT3I	NS	NS	NS	NS
ERT4I	ND	ND	ND	ND
ERT5I	NS	NS	NS	NS
ERT6I	NS	NS	NS	NS
ERT7I	ND	ND	ND	ND
ERT8I	ND	ND	ND	ND
ERT9I	ND	ND	ND	ND
ERTEW5	30	730	4	7
ERTEW6	4	18	1	ND
ERTEW7	19	47	11	2
GMS02	ND	3	ND	ND
GMS04	NS	NS	NS	NS
TH11B	NS	NS	NS	NS
TH13	NS	NS	NS	NS
TH6	NS	NS	NS	NS
TH7	13	16	3	ND
TH9	ND	ND	ND	ND



NOTES:  
 ND NOT DETECTED  
 NS NOT SAMPLED  
 DCE CIS-1,2-DICHLOROETHYLENE  
 VC VINYL CHLORIDE  
 PCE TETRACHLOROETHYLENE  
 TCE TRICHLOROETHYLENE

 Camp Dresser McKee and Smith	<b>BREWSTER VILLAGE WELL FIELD</b>	GROUNDWATER DCE CONCENTRATIONS FOR INTERMEDIATE WELLS	FIGURE NO.
		APRIL 2015	8

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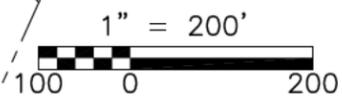
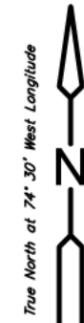
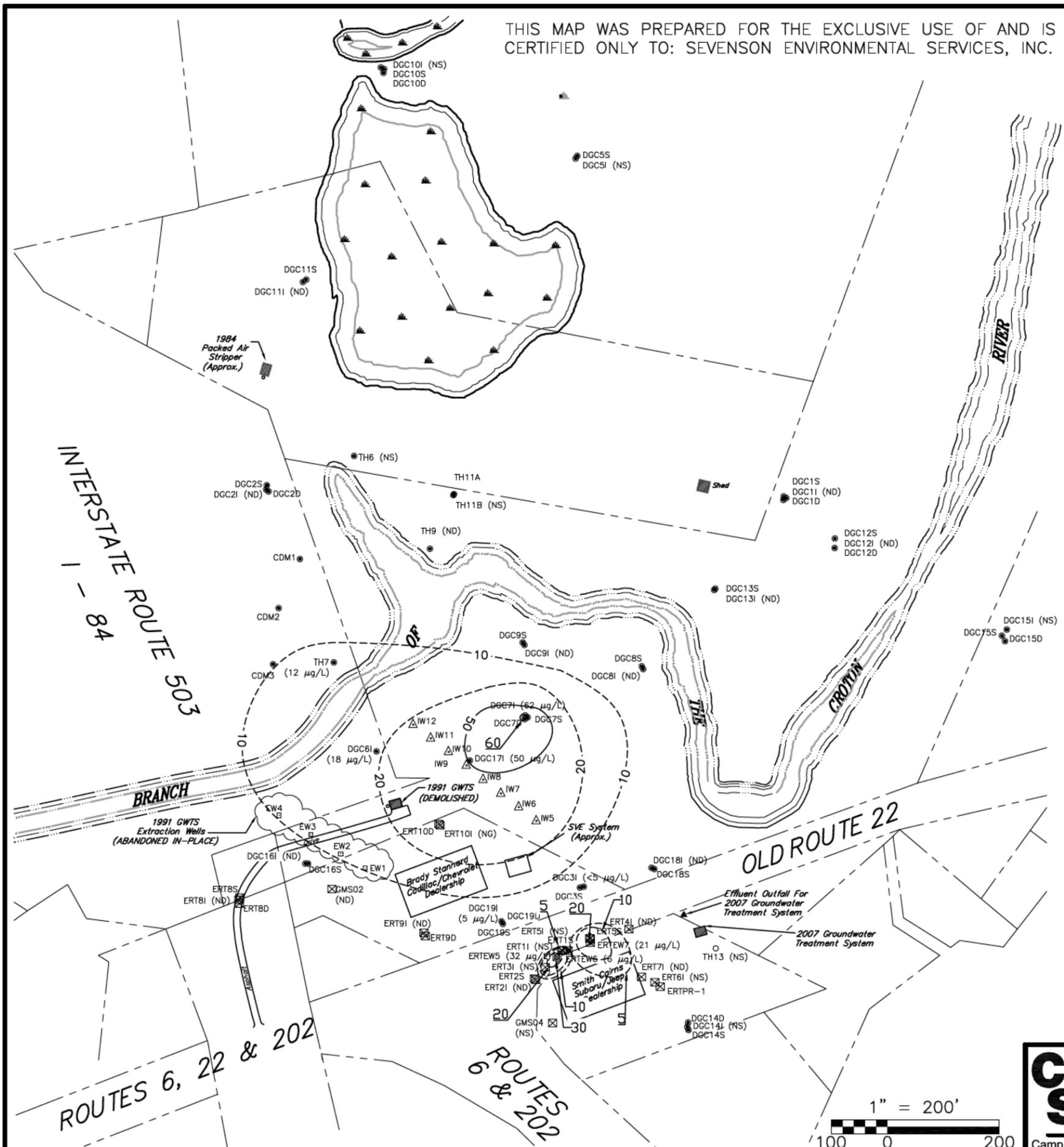
**LEGEND**

- DGC85 (45µg/L) MONITORING WELL (CONCENTRATION)
- EW1 1991 EXTRACTION WELL
- △ IW1 1991 INJECTION WELL
- ⊠ ERT-1 2007 GWTS EXTRACTION WELL
- APPROX. PROPERTY LINE
- 20 — ISOCONCENTRATION CONTOUR LINE

WELL	DATE/TIME SAMPLED	GROUNDWATER ELEVATION (FT AMSL)	PCE	TCE	DCE	VC
CDM-1	5/9/2016	330.29	ND	ND	ND	ND
CDM-3	5/9/2016	330.39	6	ND	ND	ND
DGC1I	5/9/2016	331.17	8	ND	ND	ND
DGC2I	5/9/2016	330.93	ND	ND	ND	ND
DGC3I	5/10/2016	330.70	<5	<5	<5	ND
DGC6I	5/10/2016	330.49	10	<5	18	ND
DGC7I	5/10/2016	331.31	ND	ND	62	ND
DGC8I	5/11/2016	331.21	ND	<5	ND	ND
DGC9I	5/11/2016	331.11	ND	<5	ND	ND
DGC11I	5/9/2016	330.76	ND	ND	ND	ND
DGC12IA	5/9/2016	330.42	26	ND	ND	ND
DGC13I	5/9/2016	330.49	ND	ND	ND	ND
DGC16I	5/10/2016	331.43	10	<5	ND	ND
DGC17I	5/10/2016	331.35	6	7	50	ND
DGC18I	5/10/2016	331.58	ND	ND	ND	ND
DGC19I	5/10/2016	331.40	<5	ND	5	ND
ERT2I	5/11/2016	331.60	ND	ND	ND	ND
ERT4I	5/10/2016	331.87	ND	ND	ND	ND
ERT7I	5/11/2016	331.89	ND	ND	ND	ND
ERT8I	5/10/2016	331.30	<5	ND	ND	ND
ERT9I	5/10/2016	331.46	ND	ND	ND	ND
ERTEW5	5/11/2016	NG	750	<5	32	2
ERTEW6	5/11/2016	NG	44	<5	6	ND
ERTEW7	5/11/2016	NG	42	11	21	ND
GMS02	5/10/2016	331.45	5	ND	ND	ND
TH7	5/9/2016	330.55	17	<5	12	ND
TH9	5/9/2016	330.39	ND	ND	ND	ND

NOTES:  
 ND NOT DETECTED  
 NG NOT GAUGED  
 NS NOT SAMPLED  
 DCE CIS-1,2-DICHLOROETHYLENE

PCE TETRACHLOROETHYLENE  
 TCE TRICHLOROETHYLENE  
 VC VINYL CHLORIDE

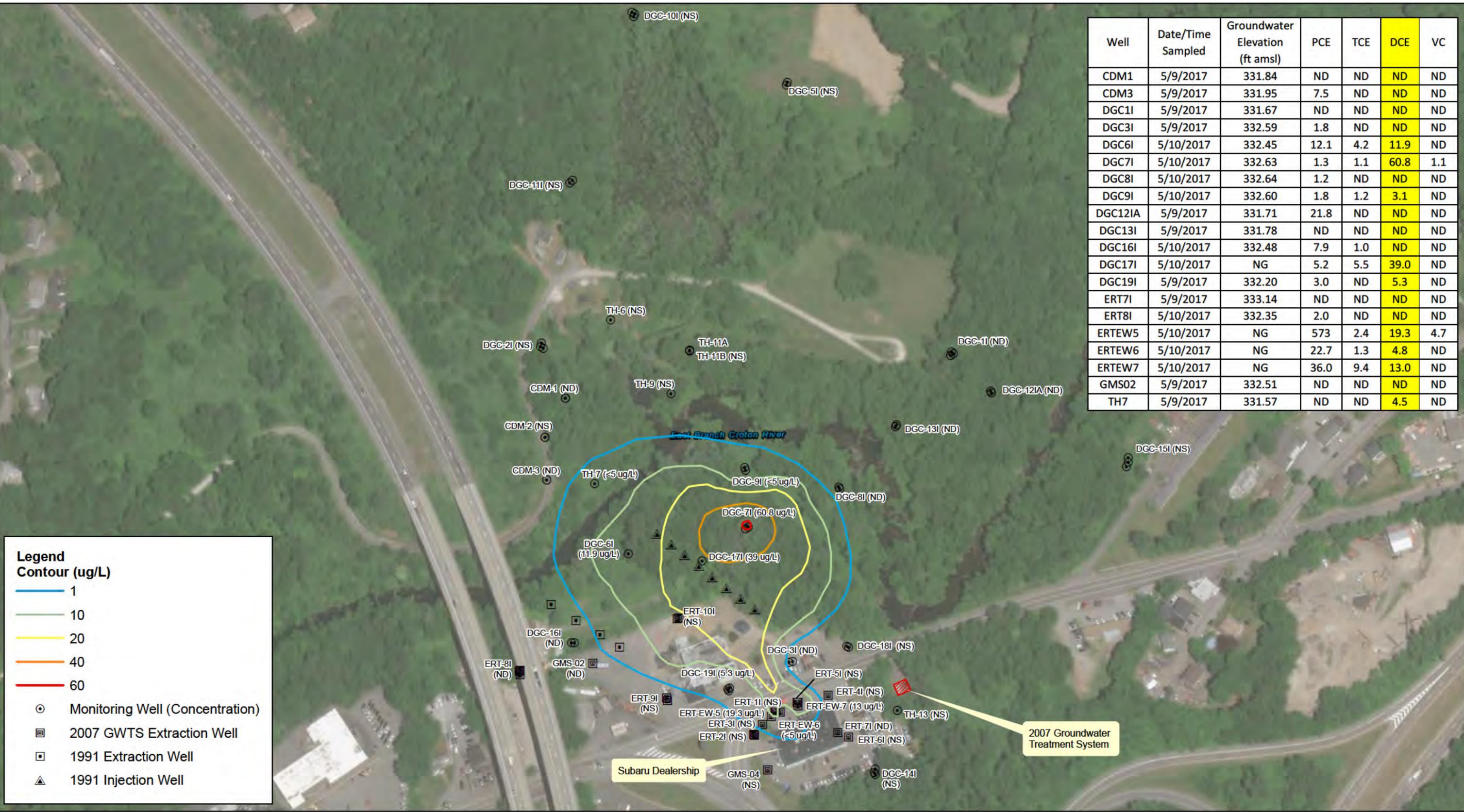


**BREWSTER VILLAGE  
 WELL FIELD**

**GROUNDWATER DCE  
 CONCENTRATIONS FOR  
 INTERMEDIATE WELLS**

MAY 2016

FIGURE NO.  
 8



**Legend**

**Contour (ug/L)**

- 1
- 10
- 20
- 40
- 60

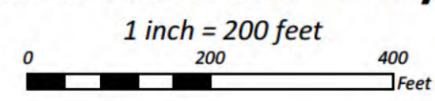
- Monitoring Well (Concentration)
- 2007 GWTS Extraction Well
- 1991 Extraction Well
- 1991 Injection Well



**Notes:**

- All concentration contours are provided in micrograms per liter (ug/L).
- GWTS - Groundwater Treatment System
- NG - Not Gauged
- NS - Not Sampled
- ND - Not Detected
- PCE - tetrachloroethene
- TCE - trichloroethene
- DCE - cis-1,2-dichloroethene
- VC - vinyl chloride

### Groundwater DCE Concentrations for Intermediate Wells - May 2017

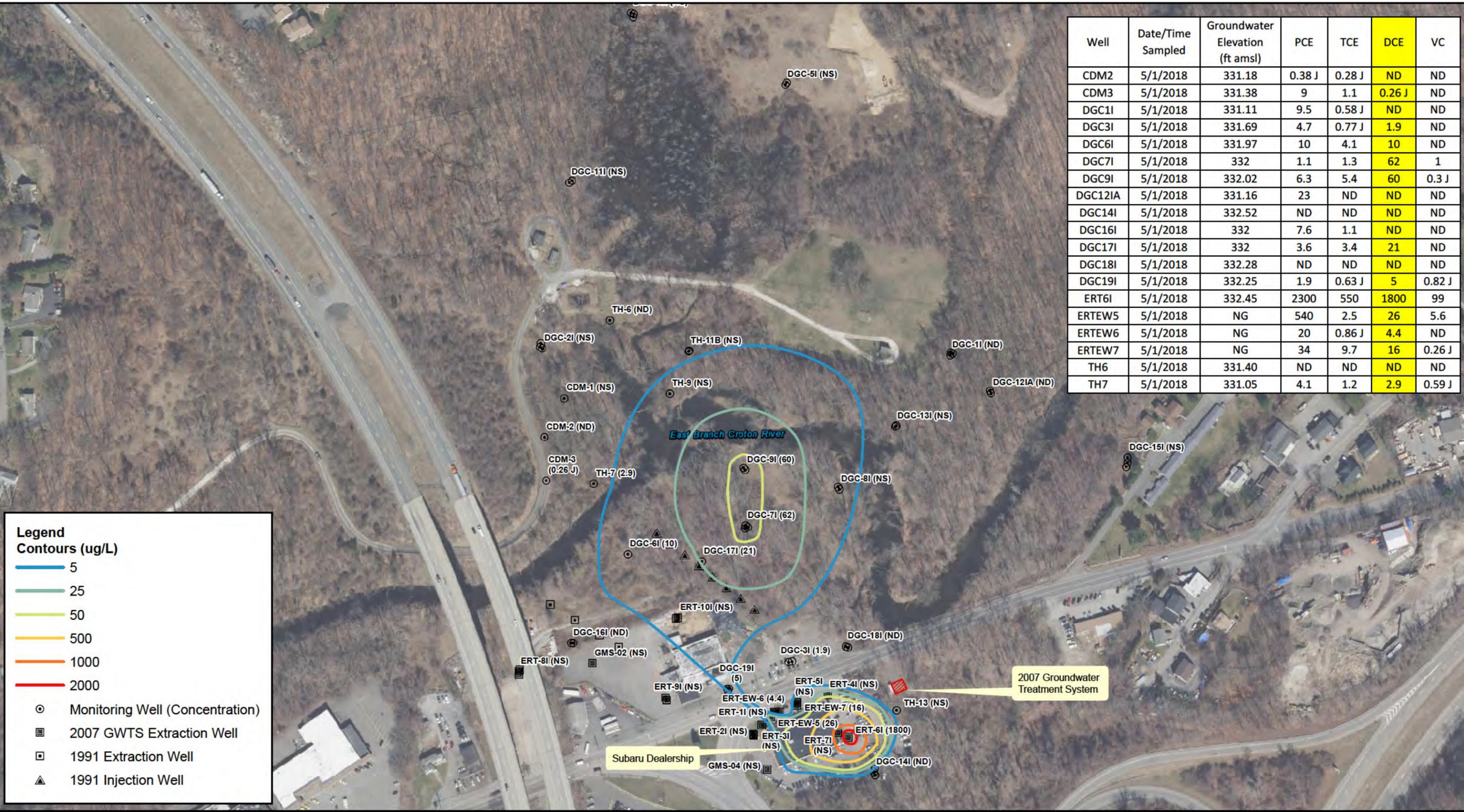


Brewster Village Well Field  
Brewster, NY  
Figure 8



Estimated C:\Users\jg2012\Desktop\Brewster\GIS\Map\fig\_8\_2017\_may\_dce\_intermediate\_wells\_2017.mxd 3/5/2018

Well	Date/Time Sampled	Groundwater Elevation (ft amsl)	PCE	TCE	DCE	VC
CDM2	5/1/2018	331.18	0.38 J	0.28 J	ND	ND
CDM3	5/1/2018	331.38	9	1.1	0.26 J	ND
DGC1I	5/1/2018	331.11	9.5	0.58 J	ND	ND
DGC3I	5/1/2018	331.69	4.7	0.77 J	1.9	ND
DGC6I	5/1/2018	331.97	10	4.1	10	ND
DGC7I	5/1/2018	332	1.1	1.3	62	1
DGC9I	5/1/2018	332.02	6.3	5.4	60	0.3 J
DGC12IA	5/1/2018	331.16	23	ND	ND	ND
DGC14I	5/1/2018	332.52	ND	ND	ND	ND
DGC16I	5/1/2018	332	7.6	1.1	ND	ND
DGC17I	5/1/2018	332	3.6	3.4	21	ND
DGC18I	5/1/2018	332.28	ND	ND	ND	ND
DGC19I	5/1/2018	332.25	1.9	0.63 J	5	0.82 J
ERT6I	5/1/2018	332.45	2300	550	1800	99
ERTEW5	5/1/2018	NG	540	2.5	26	5.6
ERTEW6	5/1/2018	NG	20	0.86 J	4.4	ND
ERTEW7	5/1/2018	NG	34	9.7	16	0.26 J
TH6	5/1/2018	331.40	ND	ND	ND	ND
TH7	5/1/2018	331.05	4.1	1.2	2.9	0.59 J



**Legend**  
Contours (ug/L)

- 5
- 25
- 50
- 500
- 1000
- 2000

- ⊙ Monitoring Well (Concentration)
- ⊠ 2007 GWTS Extraction Well
- ⊡ 1991 Extraction Well
- ▲ 1991 Injection Well

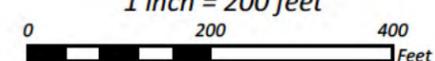


Notes:

- All concentration contours are provided in micrograms per liter (ug/L).
- GWTS - Groundwater Treatment System
- NG - Not Gauged
- NS - Not Sampled

## Groundwater DCE Concentrations for Intermediate Wells - May 2018

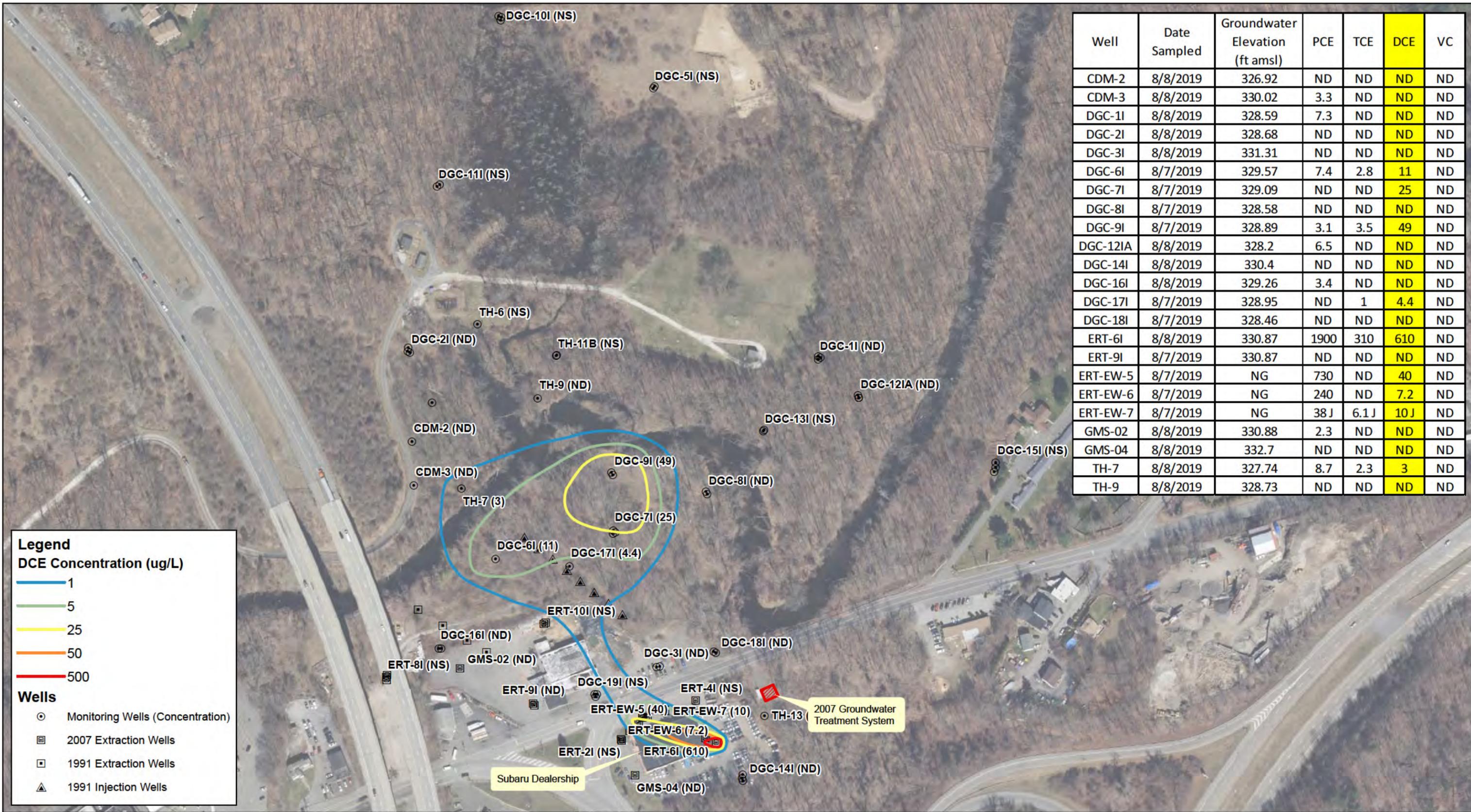
1 inch = 200 feet



Brewster Village Well Field  
Brewster, NY  
Figure 8



HARRIS\GIS\Projects\WVSD\000721\WVSD - Brewster Village Well Field\Brewster 2018\Figures\NEW\Fig\_8\_DCE\_Contour\_2018.mxd 2/14/2019



**Legend**

**DCE Concentration (ug/L)**

- 1
- 5
- 25
- 50
- 500

**Wells**

- Monitoring Wells (Concentration)
- 2007 Extraction Wells
- 1991 Extraction Wells
- 1991 Injection Wells

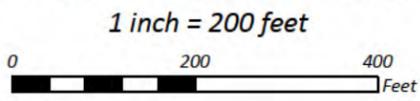


**Notes:**

- All concentration contours are provided in micrograms per liter (ug/L).
- ft amsl - feet above mean sea level
- NG - not gauged
- NS - not sampled

5. ND - not detected
6. PCE - tetrachloroethene
7. TCE - trichloroethene
8. DCE - cis-1,2-dichloroethene
9. VC - vinyl chloride

## Groundwater DCE Concentrations for Intermediate Wells - August 2019



Brewster Village Well Field  
Brewster, NY  
Figure 8





Well	Date Sampled	Groundwater Elevation (ft amsl)	PCE	TCE	DCE	VC
DGC-1I	9/30/2020	329.36	6.8	1.4 J	0.34 J	ND
DGC-3I	9/29/2020	330.58	0.36 J	ND	ND	ND
DGC-6I	9/29/2020	330.46	5.2	1.5 J	6.2	ND
DGC-7I	9/30/2020	330.37	0.39 J	0.25 J	16	ND
DGC-8I	9/30/2020	330.60	ND	ND	ND	ND
DGC-9I	9/30/2020	330.34	0.27 J	2.6 J	21	ND
DGC-12IA	9/30/2020	329.58	6	ND	ND	ND
DGC-13I	9/30/2020	329.57	ND	ND	ND	ND
DGC-14I	10/1/2020	330.32	ND	ND	ND	ND
DGC-16I	9/30/2020	330.62	2 J	0.42 J	ND	ND
DGC-17I	9/30/2020	330.66	1.2 J	0.67 J	3.7 J	ND
DGC-18I	9/30/2020	330.67	ND	ND	ND	0.22 J
ERT-1I	10/1/2020	330.65	110	3.5 J	ND	ND
ERT-2I	10/1/2020	330.76	ND	ND	ND	ND
ERT-5I	10/1/2020	330.53	22	5.7	7.4	ND
ERT-6I	10/1/2020	330.63	1400	220	700	27 J
ERT-7I	10/1/2020	330.94	0.39 J	ND	ND	ND
ERT-8I	9/30/2020	330.64	0.92 J	0.3 J	ND	ND
ERT-9I	9/29/2020	330.51	ND	ND	ND	ND
ERTEW5	9/30/2020	NG	690 D	21	90	ND
ERTEW6	9/30/2020	NG	52	4 J	44	ND
ERTEW7	10/1/2020	NG	630	14 J	56	3.8 J
GMS-02	9/29/2020	330.50	2.3 J	0.48 J	ND	ND
TH-7	10/1/2020	329.46	1.9 J	0.8 J	2.1 J	ND
TH-9	9/30/2020	329.32	ND	ND	ND	ND

**Legend**

**DCE Concentration (ug/L)**

- 1
- - - 1 (Estimated)
- 5
- 50
- 500

**Wells**

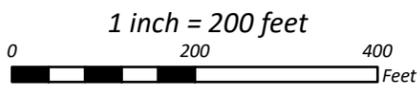
- Monitoring Wells (DCE Concentration)
- 2007 Extraction Wells
- 1991 Extraction Wells
- ▲ 1991 Injection Wells



**Notes:**

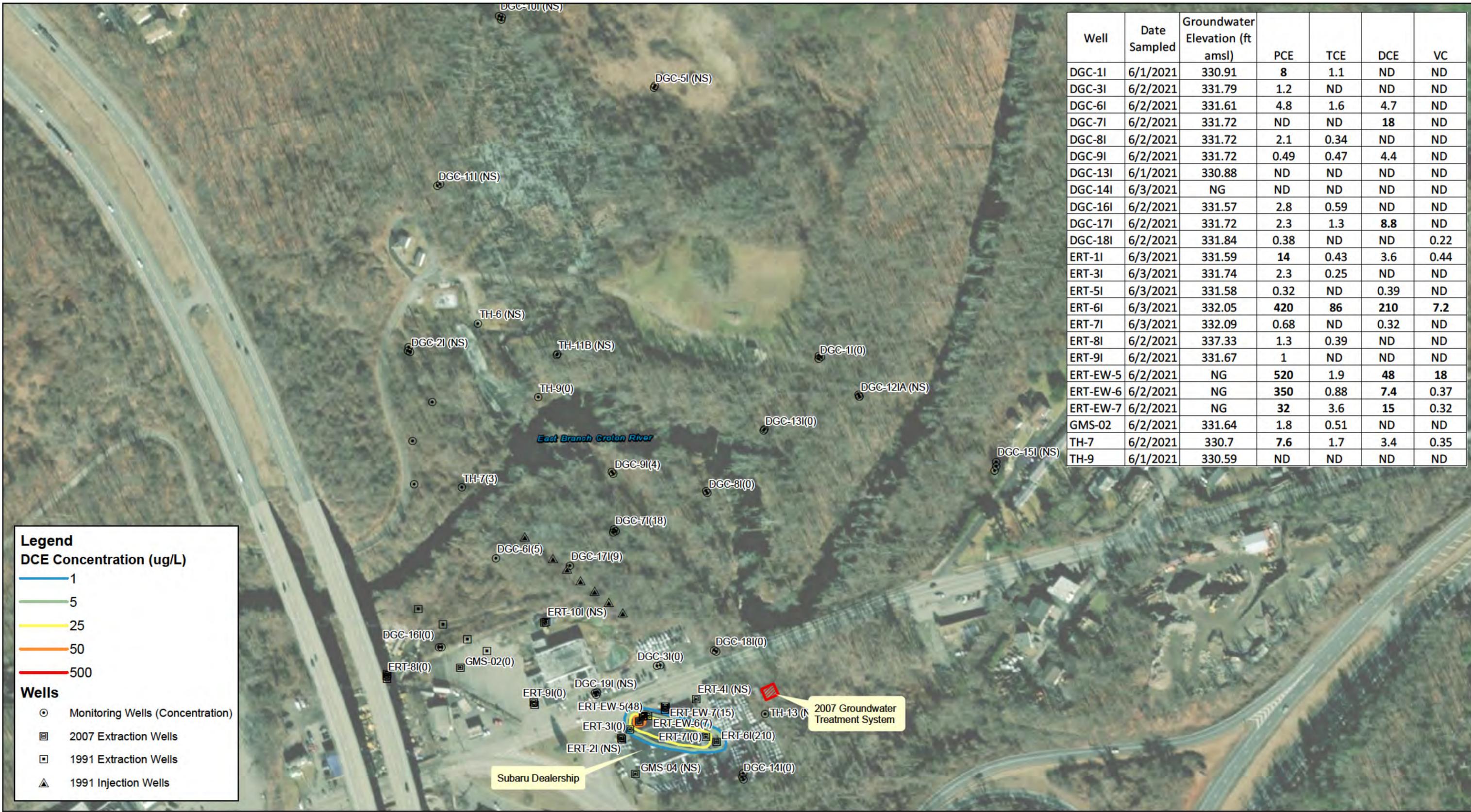
- All concentration contours are provided in micrograms per liter (ug/L).
- ft amsl - feet above mean sea level
- NG - not gauged
- ND - not detected
- PCE - tetrachloroethene
- TCE - trichloroethene
- DCE - cis-1,2-dichloroethene
- VC - vinyl chloride

## Groundwater DCE Concentrations for Intermediate Wells - September & October 2020



Brewster Village Well Field  
Brewster, NY  
Figure 3-2





**Legend**

**DCE Concentration (ug/L)**

- 1
- 5
- 25
- 50
- 500

**Wells**

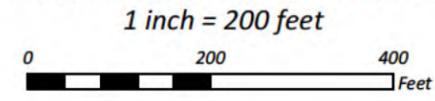
- Monitoring Wells (Concentration)
- 2007 Extraction Wells
- 1991 Extraction Wells
- 1991 Injection Wells



- Notes:**
- All concentration contours are provided in micrograms per liter (ug/L).
  - ft amsl - feet above mean sea level
  - NG - not gauged
  - NS - not sampled

5. ND - not detected
6. PCE - tetrachloroethene
7. TCE - trichloroethene
8. DCE - cis-1,2-dichloroethene
9. VC - vinyl chloride

## Groundwater DCE Concentrations for Intermediate Wells - June 2021



Brewster Village Well Field  
Brewster, NY  
Figure 3-2





**Legend**

**DCE Concentration (µg/L) Value**

- 1
- 5
- 25
- 50

**Wells**

**Symbol Type**

- Monitoring Wells (Concentration)
- 2007 Extraction Wells
- 1991 Extraction Wells
- ▲ 1991 Injection Wells

Well	Date Sampled	DCE (µg/L)	Groundwater Elevation (ft amsl)
TH-7	8/22/2023	1.8	330.72
ERT-EW-7	8/22/2023	8.4	332.54
ERT-EW-6	8/22/2023	2.4	332.82
ERT-EW-5	8/22/2023	180	331.81
ERT-9I	8/21/2023	0	331.88
ERT-7I	8/22/2023	0.44	332.31
ERT-6I	8/22/2023	300	332.36
ERT-5I	8/22/2023	0	331.69
ERT-3I	8/21/2023	1	331.92
ERT-1S	8/22/2023	330	332.14
DGC-8I	8/21/2023	0.39	331.85
DGC-6I	8/21/2023	3.7	330.73
DGC-3I	8/21/2023	0	331.97
DGC-1I	8/22/2023	0	330.78
DGC-16I	8/21/2023	0	331.77
DGC-14IA	8/21/2023	0	330.97
CDM-3	8/21/2023	0.55	331.28

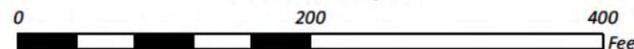


**Notes:**

1. All concentration contours are provided in micrograms per liter (µg/L).
2. Non-detect results assigned values equal to 0 µg/L
3. DCE - cis-1,2-dichloroethene

**Groundwater DCE Concentrations for Intermediate Wells — August 2023**

1 inch = 125 feet

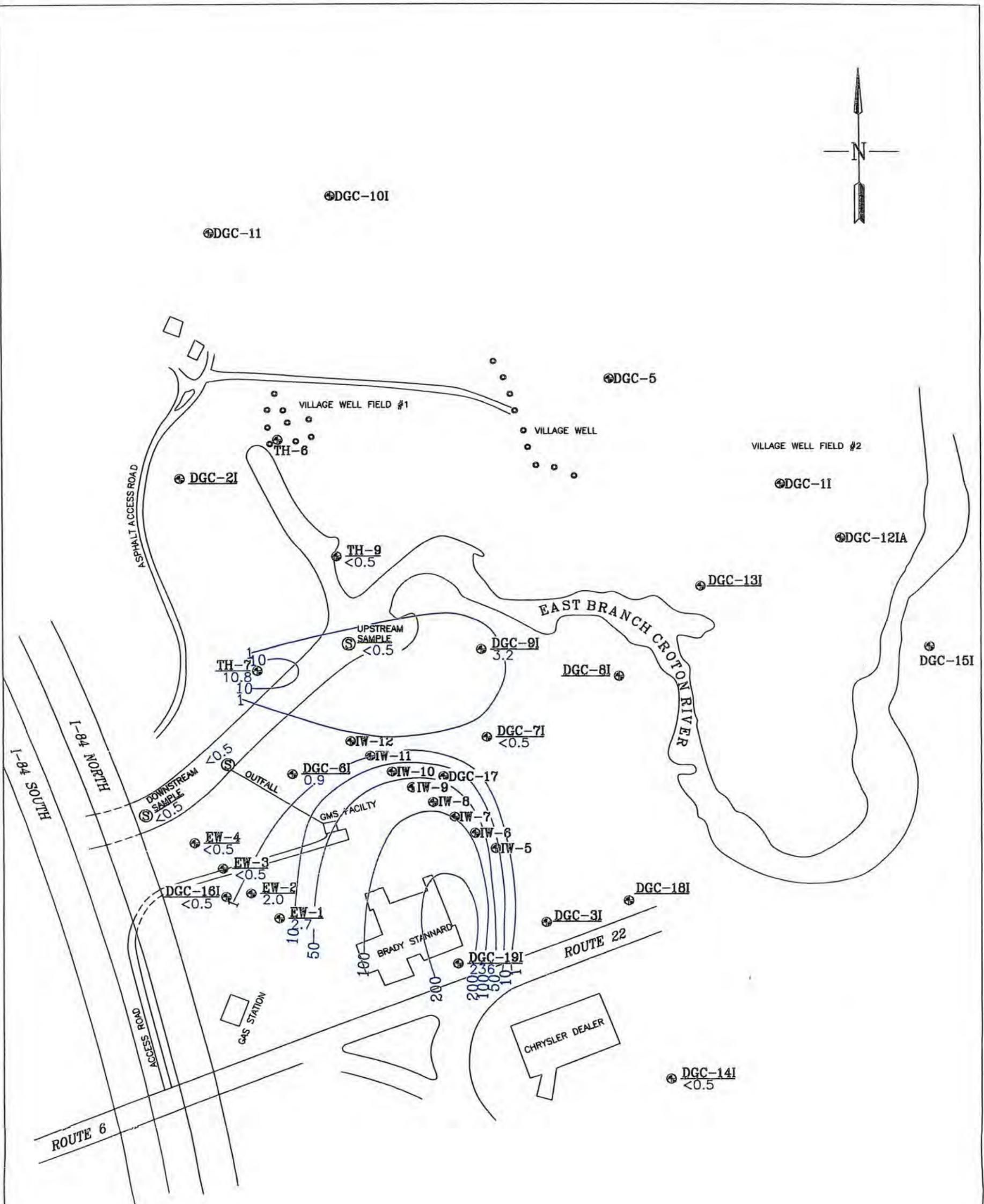
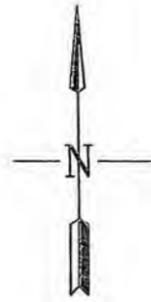


Brewster Village Well Field  
Brewster, NY  
Figure 4-7



# Historical Vinyl Chloride (VC) Isoconcentration Plots

May 2005 Through



**LEGEND**

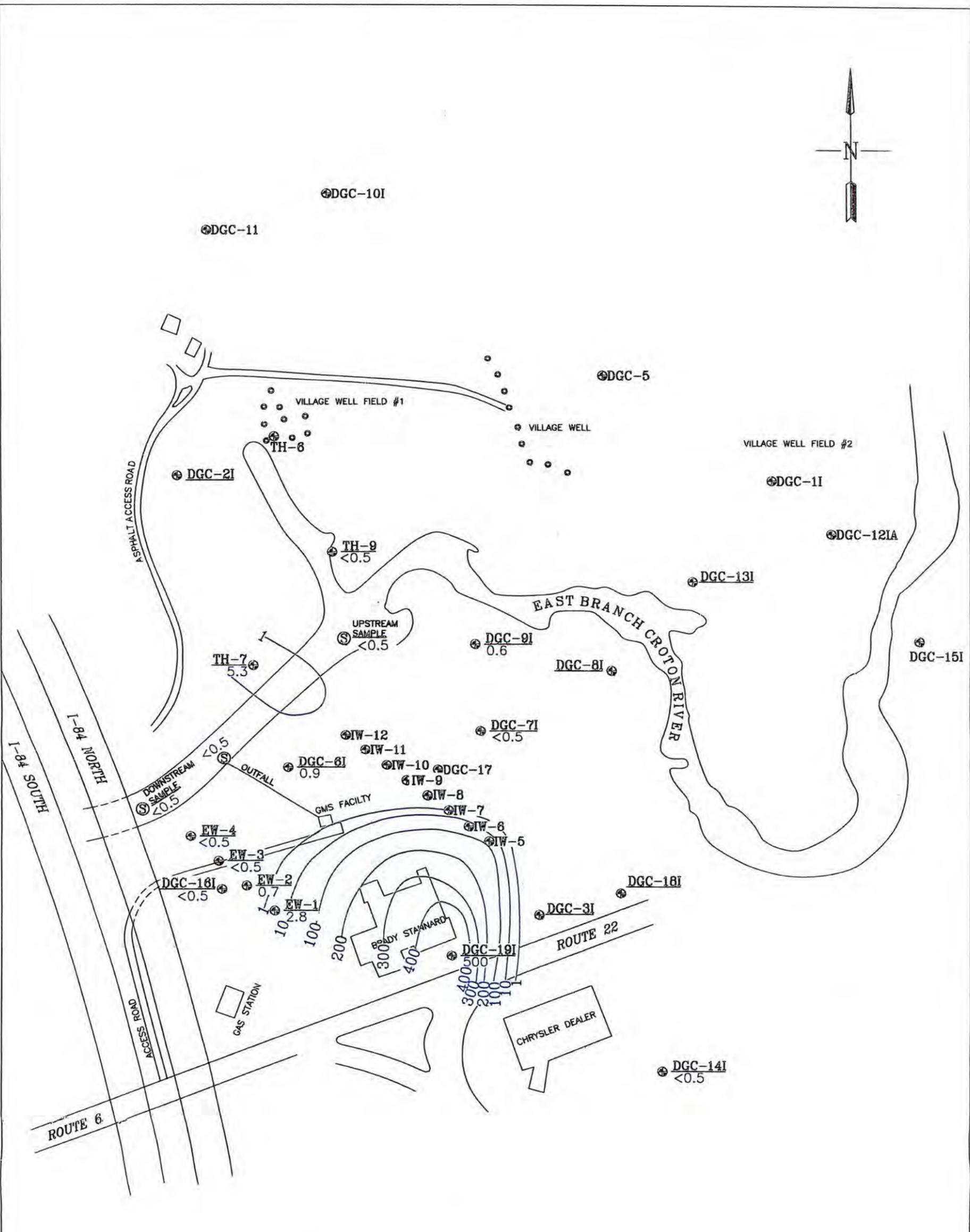
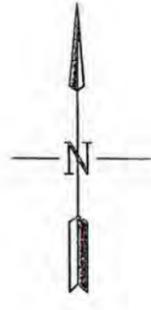
- 
**DGC-71**  
<math><0.5</math> MONITORING WELL LOCATION  
VINYL CHLORIDE CONCENTRATION ( $\mu\text{g/L}$ )
- 
**10** ISOCONCENTRATION LINE (DASHED WHERE INFERRED)

**NOTES:**

1. UNEVEN CONTOUR INTERVALS WERE USED TO MORE ACCURATELY DEPICT THE CONTAMINANT PLUME.
2. ORIGINAL DRAWING PROVIDED BY SEVENSON ENVIRONMENTAL SERVICES, INC.



<b>SEVENSON</b>			
BREWSTER WELL FIELD			
VINYL CHLORIDE ISOCONCENTRATION CONTOUR MAP (MARCH 2005)			
drawn <i>DAK</i>	checked	approved	figure no.
date 05/02/06	date	date	8
job no. 01-1408-04-1548-000	file no. 1548-008.dwg		
 <b>Science Applications International Corporation</b> An Employee-Owned Company			



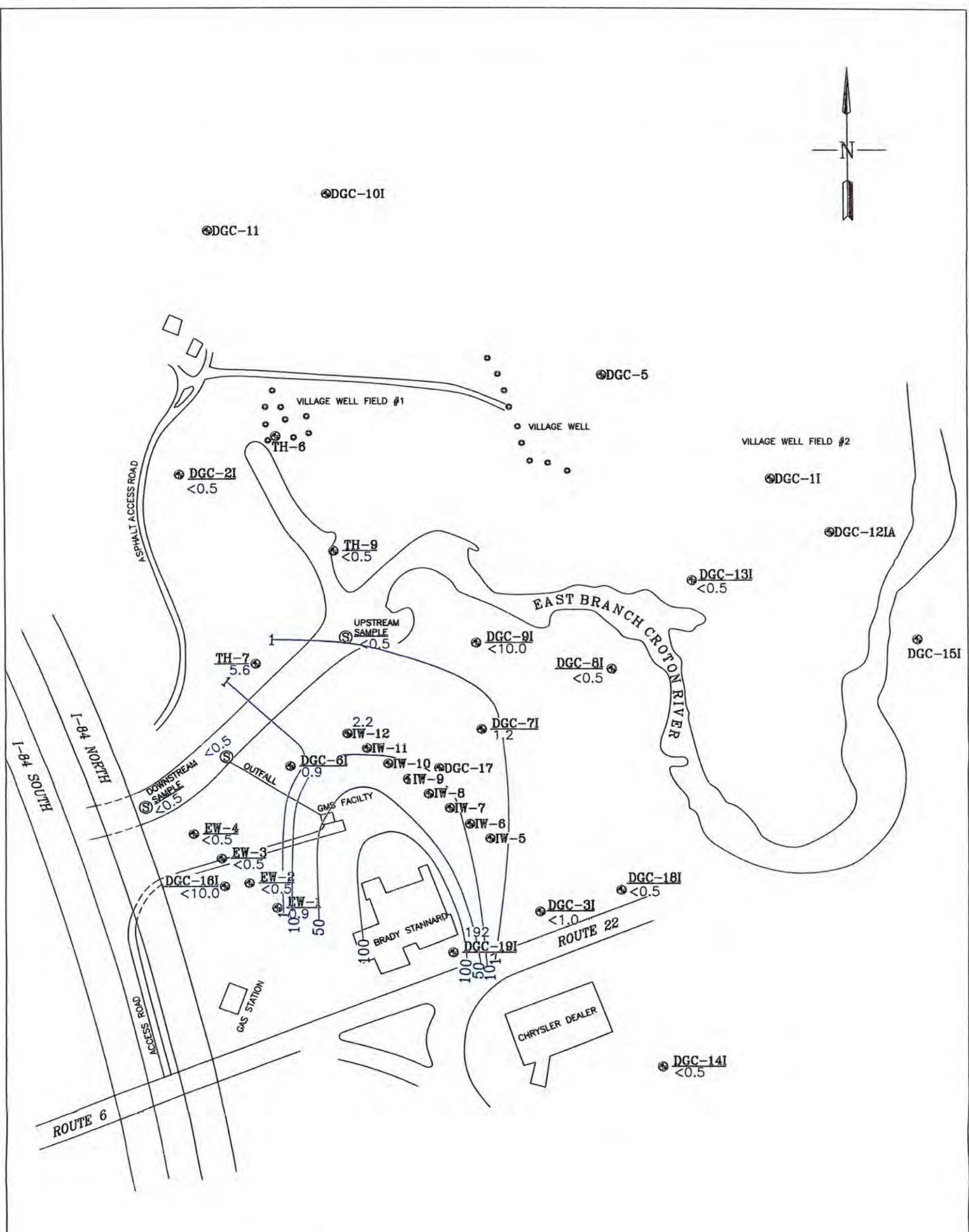
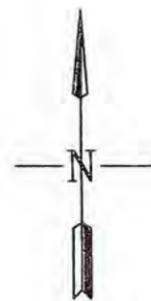
**LEGEND**

- DGC-7I**  
 <0.5 MONITORING WELL LOCATION  
 VINYL CHLORIDE CONCENTRATION (µg/L)
- 10 ISOCONCENTRATION LINE (DASHED WHERE INFERRED)

- NOTES:
- UNEVEN CONTOUR INTERVALS WERE USED TO MORE ACCURATELY DEPICT THE CONTAMINANT PLUME.
  - ORIGINAL DRAWING PROVIDED BY SEVENSON ENVIRONMENTAL SERVICES, INC.



<b>SEVENSON</b>			
BREWSTER WELL FIELD			
<b>VINYL CHLORIDE ISOCONCENTRATION CONTOUR MAP (JUNE 2005)</b>			
drawn <i>DAK</i>	checked <i>MJR</i>	approved <i>RCC</i>	figure no. <b>8</b>
date 07/28/05	date 07/25/05	date 07/25/05	
job no. 01-1633-04-2388-200	file no. 1548-008.dwg		



**LEGEND**

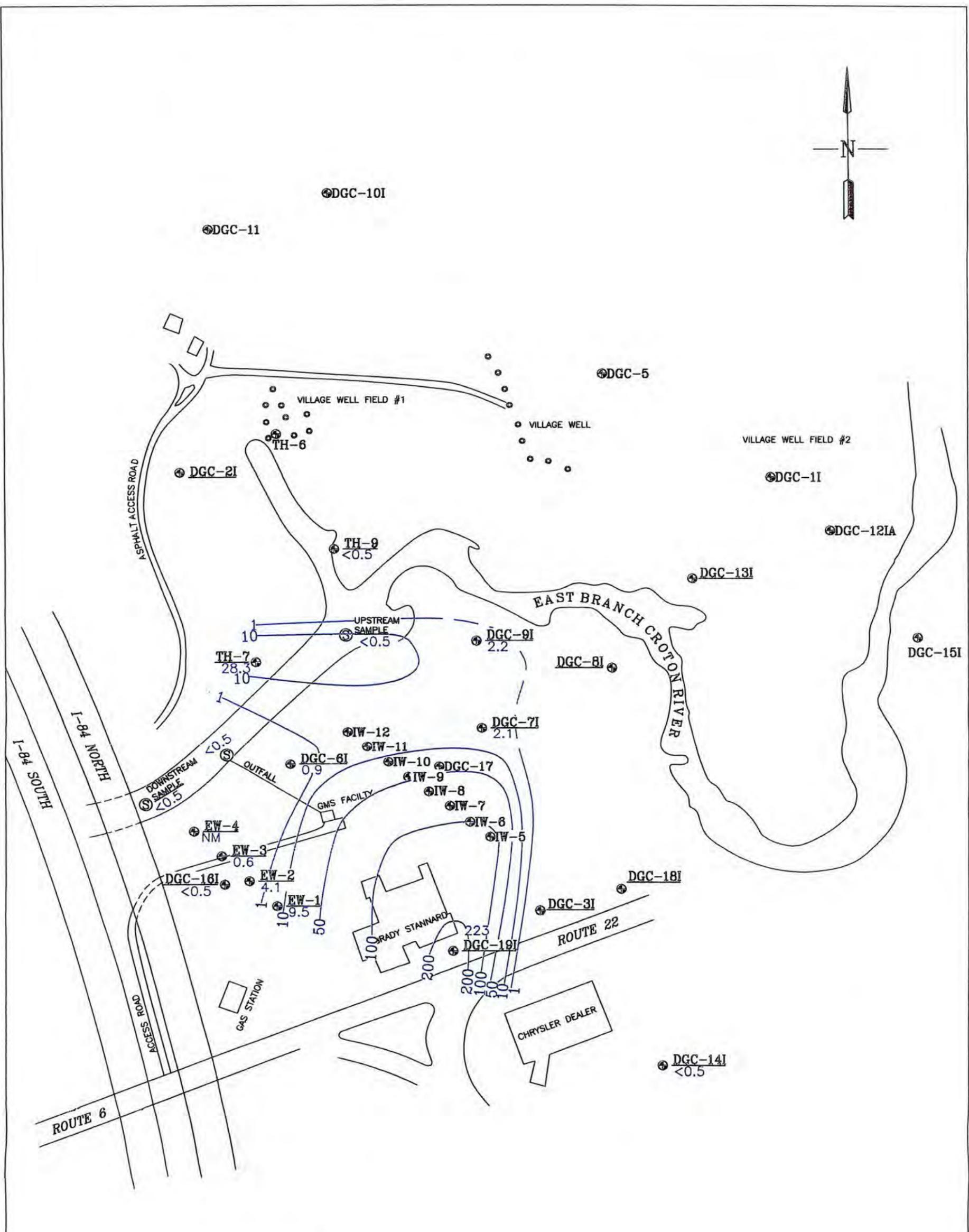
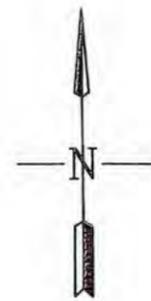
- DGC-7I**  
1.2 MONITORING WELL LOCATION  
VINYL CHLORIDE CONCENTRATION (µg/L)
- 1** ISOCONCENTRATION LINE (DASHED WHERE INFERRED)

**NOTES:**

1. UNEVEN CONTOUR INTERVALS WERE USED TO MORE ACCURATELY DEPICT THE CONTAMINANT PLUME.
2. ORIGINAL DRAWING PROVIDED BY SEVENSON ENVIRONMENTAL SERVICES, INC.



<b>SEVENSON</b>			
BREWSTER WELL FIELD			
<b>VINYL CHLORIDE ISOCONCENTRATION CONTOUR MAP (SEPTEMBER 2005)</b>			
drawn <i>DAK</i>	checked <i>MJR</i>	approved <i>RCC</i>	figure no.
date 11/22/05	date 11/22/05	date 11/22/05	<b>8</b>
job no. 01-1633-04-2388-200		file no. 1548-008.dwg	
 <b>SAIC</b> Science Applications International Corporation <small>From Science to Solutions™</small>			



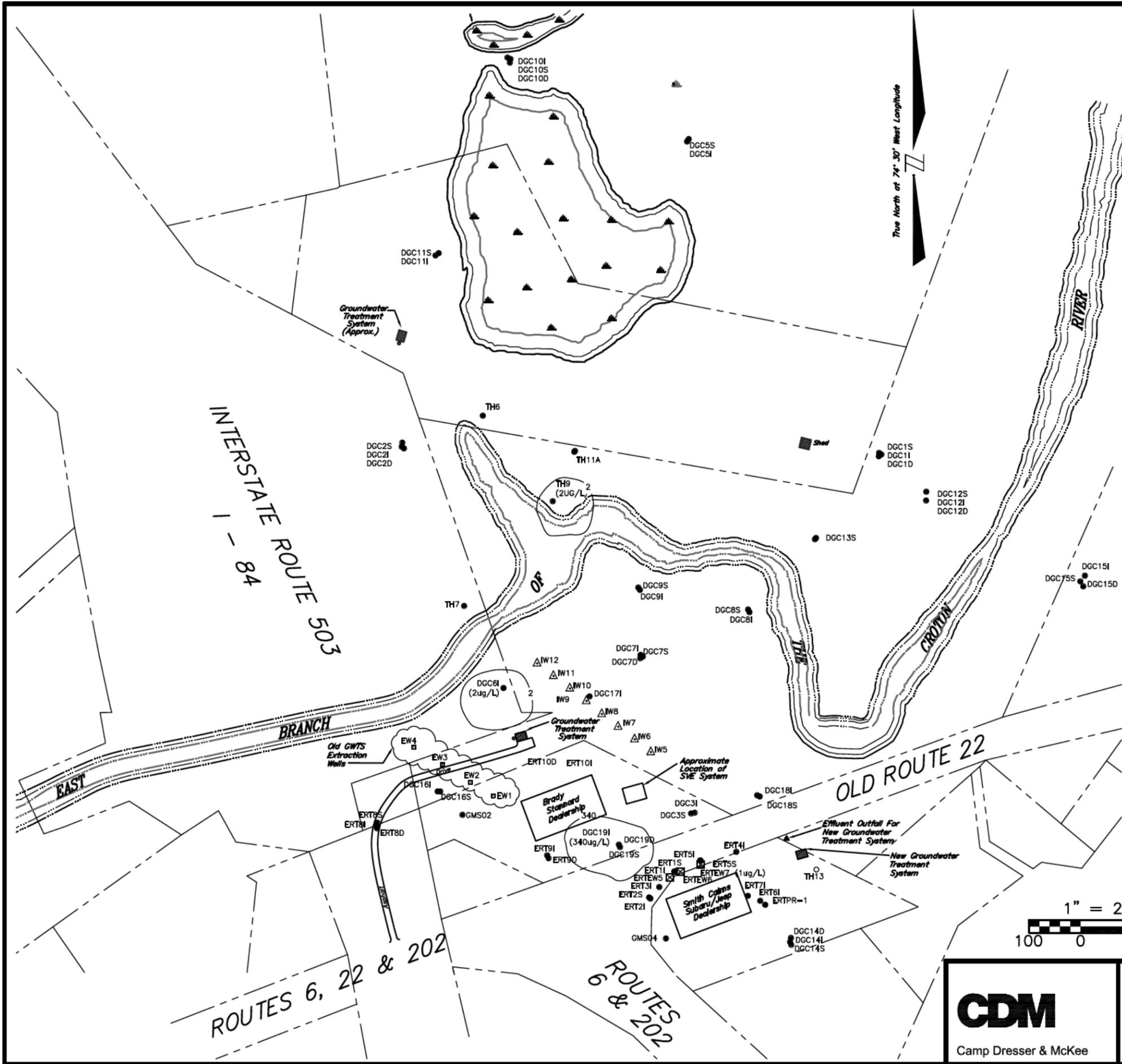
**LEGEND**

- DGC-7I** 2.1 MONITORING WELL LOCATION  
 VINYL CHLORIDE CONCENTRATION ( $\mu\text{g/L}$ )
- 10 ISOCONCENTRATION LINE (DASHED WHERE INFERRED)

- NOTES:
- UNEVEN CONTOUR INTERVALS WERE USED TO MORE ACCURATELY DEPICT THE CONTAMINANT PLUME.
  - ORIGINAL DRAWING PROVIDED BY SEVENSON ENVIRONMENTAL SERVICES, INC.



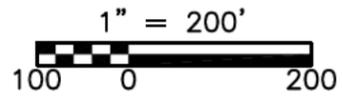
<b>SEVENSON</b>			
BREWSTER WELL FIELD			
<b>VINYL CHLORIDE ISOCONCENTRATION CONTOUR MAP (DECEMBER 2005)</b>			
drawn <i>DAK</i>	checked <i>MJR</i>	approved <i>RCC</i>	figure no.
date 01/19/06	date 01/19/06	date 01/19/06	<b>8</b>
job no. 01-1833-04-2388-200	file no. 1548-008.dwg		
<b>Science Applications International Corporation</b> <small>From Science to Solutions™</small>			



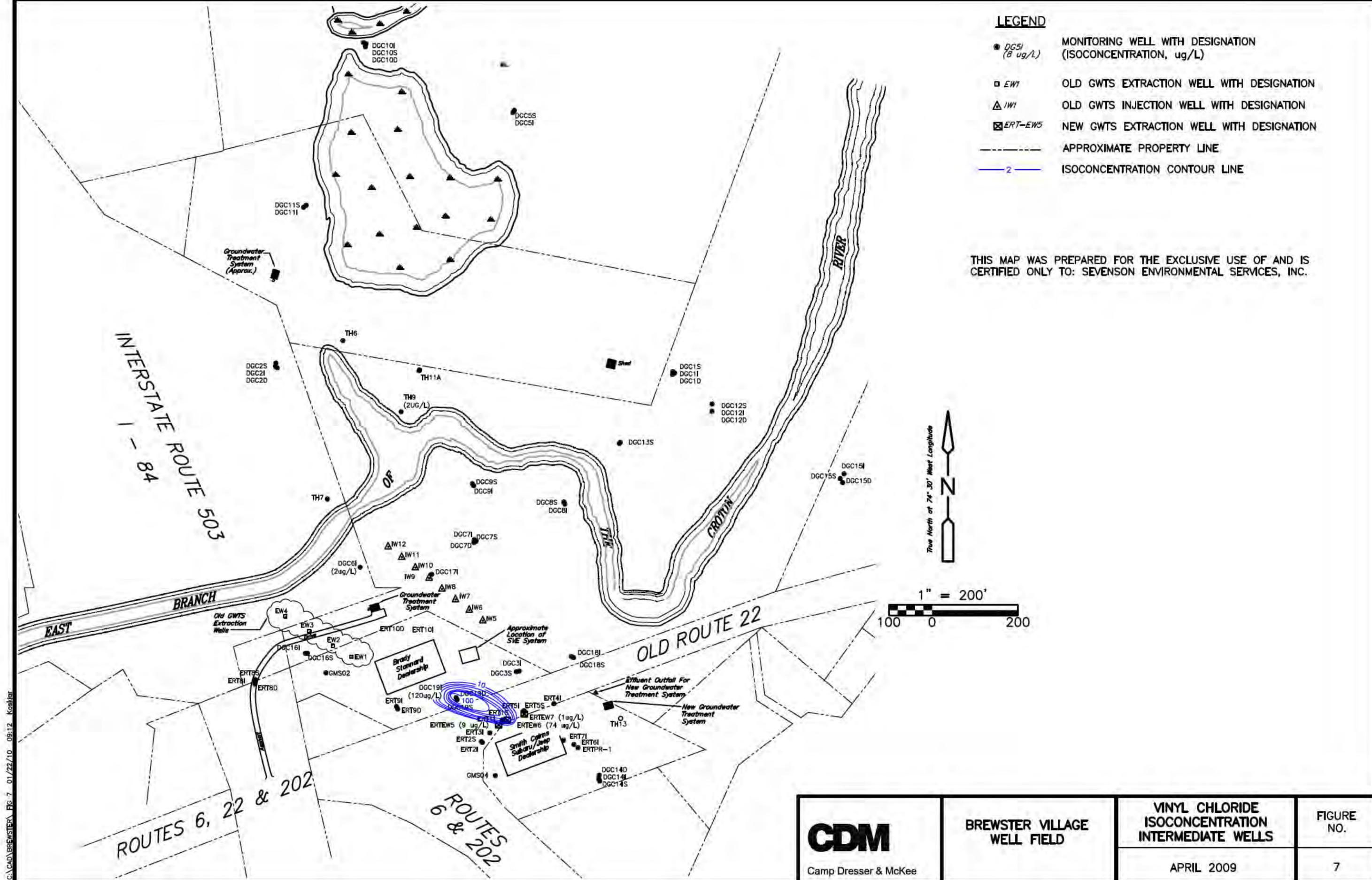
**LEGEND**

- DGC55 (330.49) Monitoring Well with Designation (Groundwater Elevation, FT BGS)
- EW1 Old GWTS Extraction Well with Designation
- △ IW1 Old GWTS Injection Well with Designation
- ⊠ ERT-EW5 New GWTS Extraction Well with Designation
- - - - - Approximate Property Line
- 2 — Isoconcentration Line

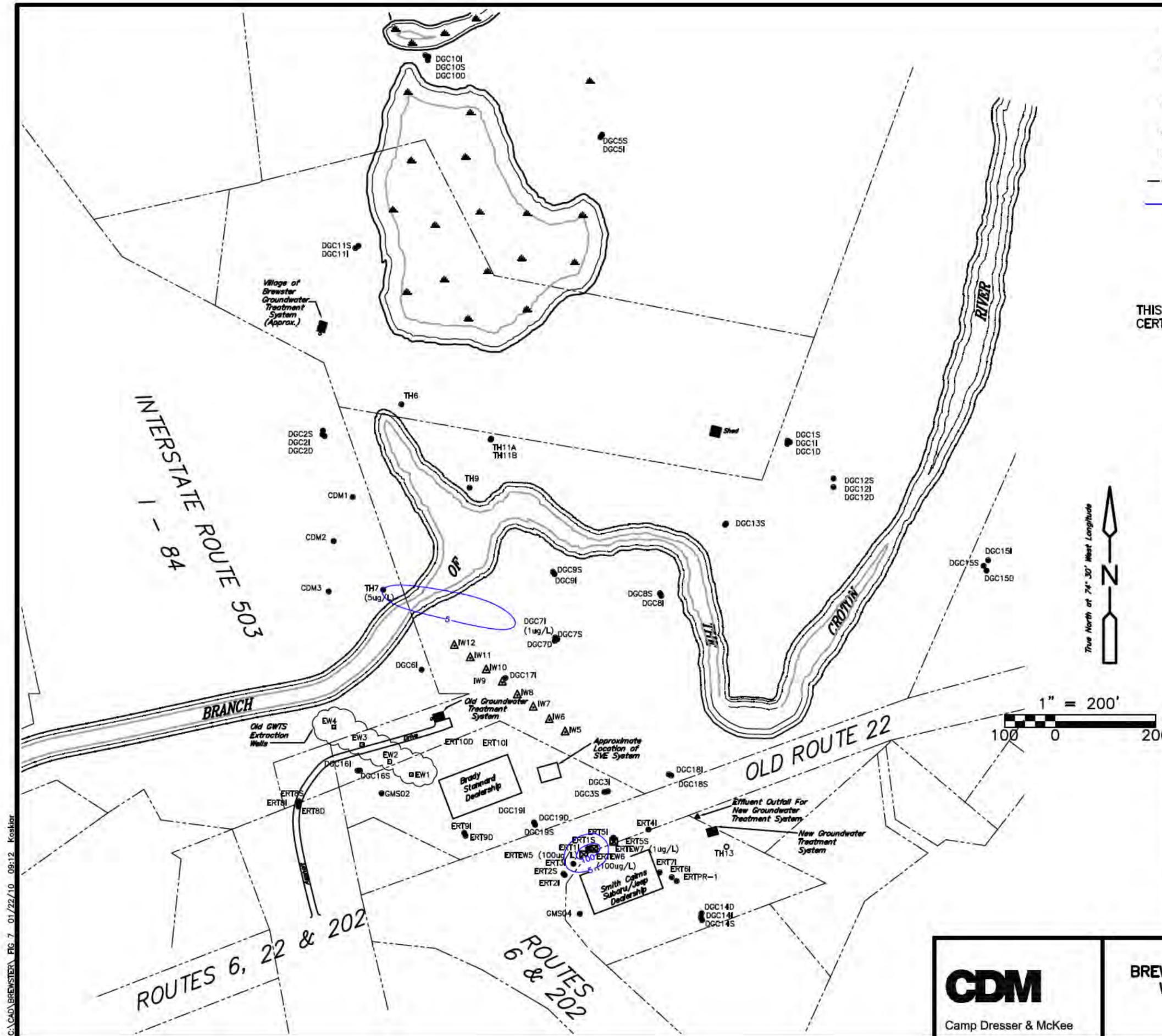
This map was prepared for the exclusive use of and is certified only to:  
**SEVENSON ENVIRONMENTAL SERVICES, INC.**



<b>CDM</b> Camp Dresser & McKee	<b>BREWSTER VILLAGE          WELL FIELD</b>	<b>VINYL CHLORIDE          ISOCONCENTRATION          INTERMEDIATE WELLS</b>	<b>FIGURE          NO.</b>
		MAY 2008	7



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**LEGEND**

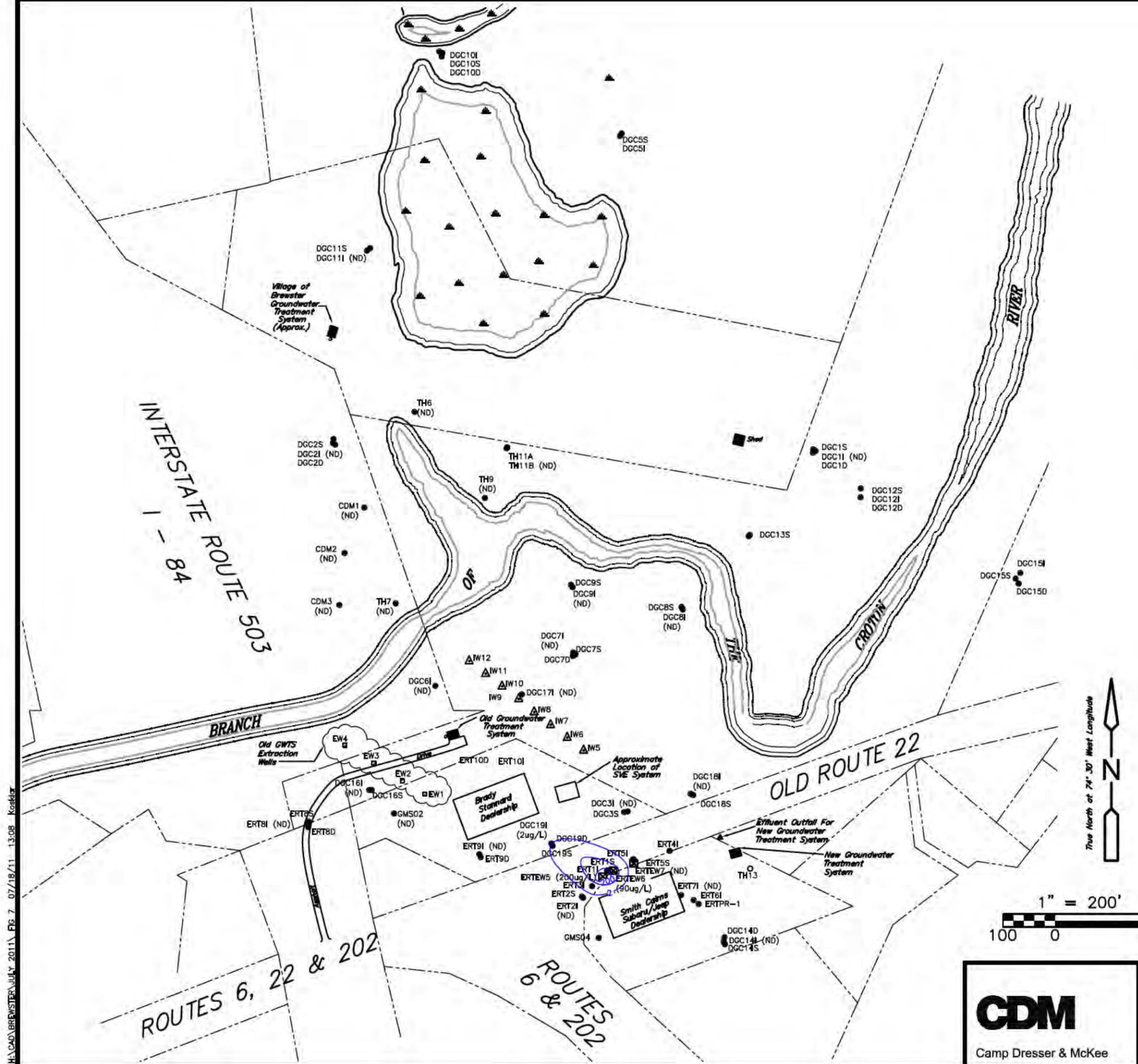
- DGC*i* (8 ug/L) MONITORING WELL WITH DESIGNATION (ISOCONCENTRATION, ug/L)
- EW*i* OLD GWTS EXTRACTION WELL WITH DESIGNATION
- △ IW*i* OLD GWTS INJECTION WELL WITH DESIGNATION
- ⊠ ERT-EW*i* NEW GWTS EXTRACTION WELL WITH DESIGNATION
- APPROXIMATE PROPERTY LINE
- 5 — ISOCONCENTRATION CONTOUR LINE CONTOUR INTERVAL 5 ug/L

THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.

Groundwater Samples Collected 12/27/11-12/29/11			
Well	Tetrachloroethene (ug/L)	1,2-Dichloroethene (total) (ug/L)	Vinyl chloride (ug/L)
DGC-1I	1	ND	ND
DGC-2I	ND	ND	ND
DGC3I	ND	ND	ND
DGC6I	19	27	ND
DGC7I	3	77	1
DGC8I	ND	ND	ND
DGC9I	3	ND	ND
DGC11I	ND	ND	ND
DGC13I	ND	ND	ND
DGC14I	ND	ND	ND
DGC16I	2	ND	ND
DGC17I	15	15	ND
DGC18I	ND	ND	ND
DGC19I	ND	ND	ND
CDM1	ND	ND	ND
CDM2	ND	ND	ND
CDM3	7	ND	ND
ERT-2I	ND	ND	ND
ERT-7I	ND	ND	ND
ERT-8I	ND	ND	ND
ERT-9I	ND	ND	ND
ERT-EW5	200	430	100
ERT-EW6	200	400	100
ERT-EW7	87	42	1
GMS-02	ND	ND	ND
TH-11B	ND	ND	ND
TH-6	ND	ND	ND
TH-7	29	22	5

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 Camp Dresser & McKee	<b>BREWSTER VILLAGE WELL FIELD</b>	<b>VINYL CHLORIDE ISOCONCENTRATION INTERMEDIATE WELLS</b>	<b>FIGURE NO.</b>
		DECEMBER 2010	7



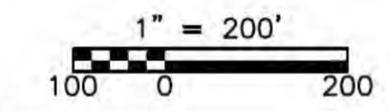
**LEGEND**

- DGC19i (2 ug/L) MONITORING WELL WITH DESIGNATION (ISOCONCENTRATION, ug/L)
- EW1 OLD GWTS EXTRACTION WELL WITH DESIGNATION
- △ IW1 OLD GWTS INJECTION WELL WITH DESIGNATION
- ⊠ ERT-EW5 NEW GWTS EXTRACTION WELL WITH DESIGNATION
- APPROXIMATE PROPERTY LINE
- 2 — ISOCONCENTRATION CONTOUR LINE CONTOUR INTERVAL 5 ug/L

THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.

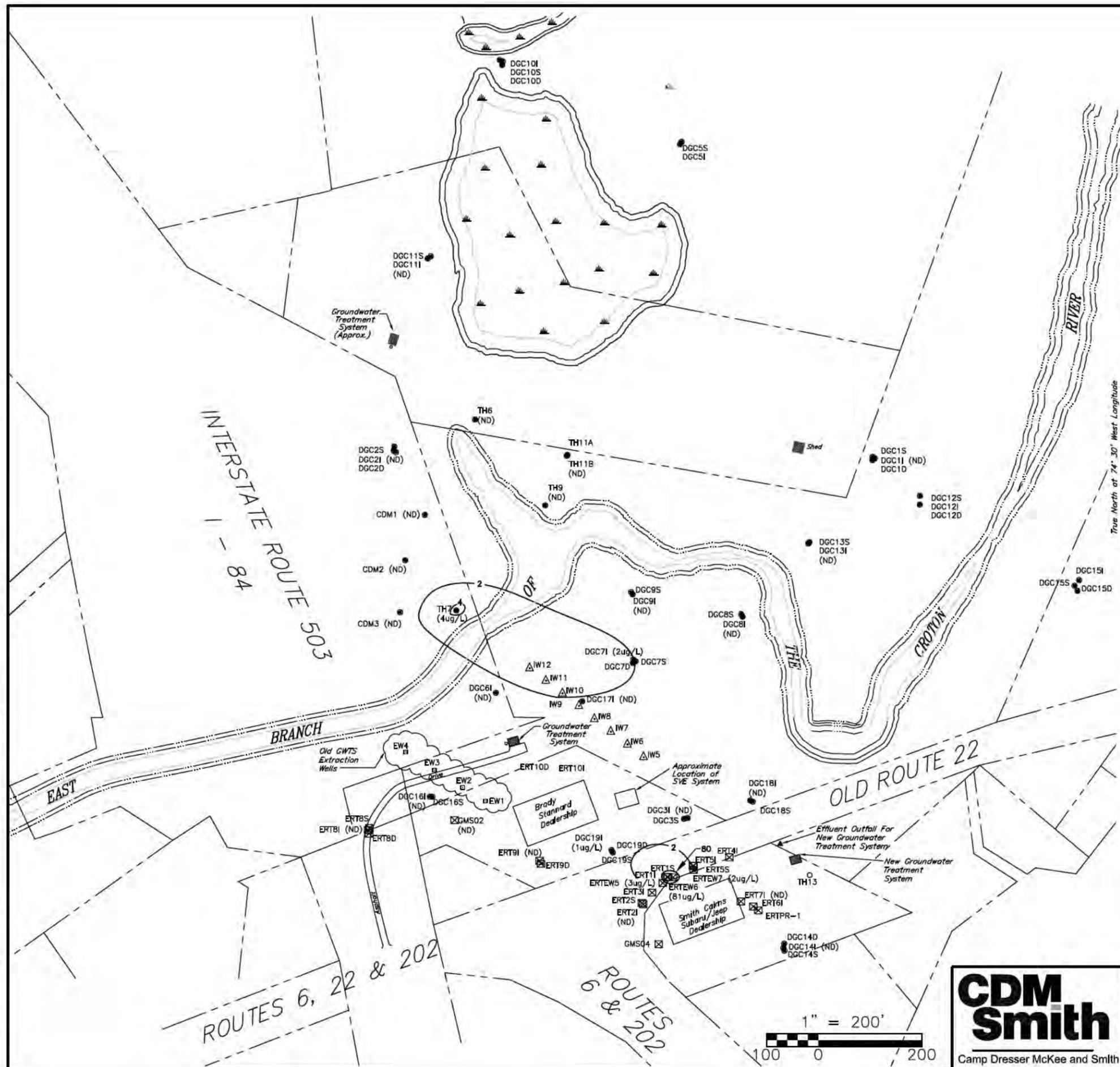
Groundwater Samples Collected 5/18/2011-5/21/2011			
Well	Tetrachloroethene (ug/L)	1,2-Dichloroethene (total) (ug/L)	Vinyl chloride (ug/L)
DGC-1i	ND	ND	ND
DGC-2i	ND	ND	ND
DGC3i	ND	ND	ND
DGC6i	16	30	ND
DGC7i	3	97	ND
DGC8i	4	3	ND
DGC9i	12	27	ND
DGC11i	ND	ND	ND
DGC13i	ND	ND	ND
DGC14i	ND	ND	ND
DGC16i	1	ND	ND
DGC17i	6	46	ND
DGC18i	ND	ND	ND
DGC19i	4	17	2
CDM1	ND	ND	ND
CDM2	ND	ND	ND
CDM3	14	ND	ND
ERT-2i	ND	ND	ND
ERT-7i	ND	ND	ND
ERT-8i	2	ND	ND
ERT-9i	ND	ND	ND
ERT-EW5	920	42	200
ERT-EW6	190	430	90
ERT-EW7	51	11	ND
GMS-02	6	ND	ND
TH-11B	ND	ND	ND
TH-6	ND	ND	ND
TH-7	36	30	ND
TH-9	ND	ND	ND

K:\CAD\BREWSTER\JULY 2011\Fig 7\_07/18/11\_13.08\_Kessler



 Camp Dresser & McKee	<b>BREWSTER VILLAGE WELL FIELD</b>	<b>VINYL CHLORIDE ISOCONCENTRATION INTERMEDIATE WELLS</b>	<b>FIGURE NO.</b>
		MAY 2011	7

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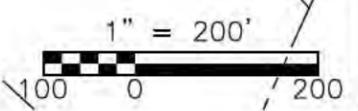


**LEGEND**

- TH7 (4ug/L) MONITORING WELL WITH DESIGNATION (TETRACHLOROETHENE CONCENTRATION, ug/L)
- EW1 OLD GWTS EXTRACTION WELL WITH DESIGNATION
- △ IW1 OLD GWTS INJECTION WELL WITH DESIGNATION
- ⊠ ERT-1 NEW GWTS EXTRACTION WELL WITH DESIGNATION
- - - - - APPROXIMATE PROPERTY LINE
- 20 — ISOCONCENTRATION CONTOUR LINE CONTOUR INTERVAL 2ug/L

THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.

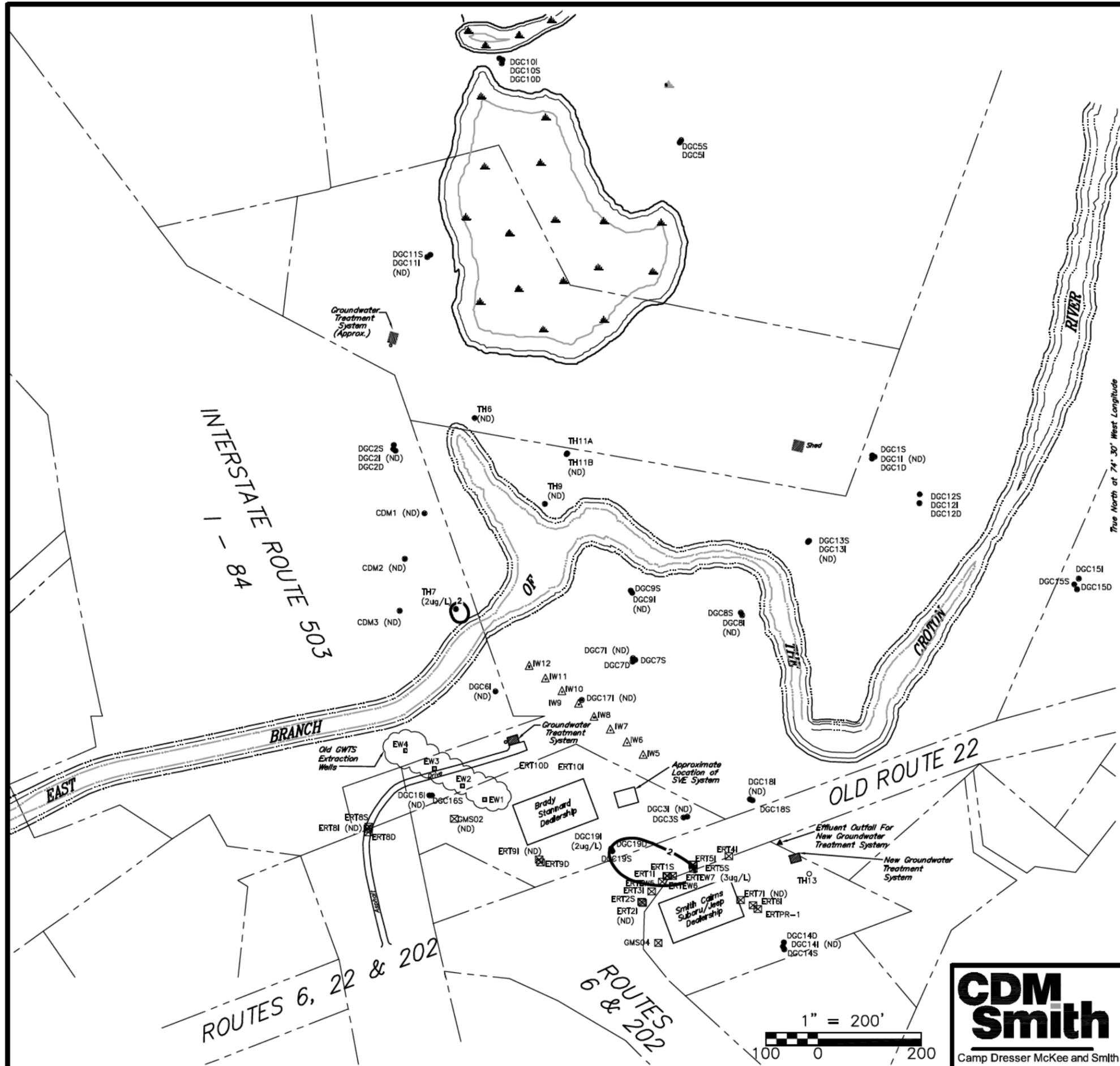
Groundwater Samples Collected November 2012			
Well	Tetrachloroethene (ug/L)	1,2-Dichloroethene (total) (ug/L)	Vinyl chloride (ug/L)
DGC-11	7	ND	ND
DGC-21	ND	ND	ND
DGC31	5	3	ND
DGC61	13	45	ND
DGC71	ND	77	2
DGC81	2	2	ND
DGC91	6	38	ND
DGC111	ND	ND	ND
DGC131	ND	ND	ND
DGC141	ND	ND	ND
DGC161	11	ND	ND
DGC171	5	55	ND
DGC181	ND	ND	ND
DGC191	4	7	1
CDM1	ND	ND	ND
CDM2	ND	ND	ND
CDM3	8	ND	ND
ERT-21	ND	ND	ND
ERT-71	2	1	ND
ERT-81	2	ND	ND
ERT-91	ND	ND	ND
ERT-EW5	530	34	3
ERT-EW6	10	150	81
ERT-EW7	57	24	2
GMS-02	4	ND	ND
TH-11B	ND	ND	ND
TH-6	ND	ND	ND
TH-7	29	25	4
TH-9	ND	ND	ND



**BREWSTER VILLAGE WELL FIELD**

VINYL CHLORIDE ISOCONCENTRATION INTERMEDIATE WELLS  
NOVEMBER 2012

FIGURE NO.  
7



**LEGEND**

- TH7 (2ug/L) MONITORING WELL WITH DESIGNATION (VINYL CHLORIDE CONCENTRATION, ug/L)
- EW1 OLD GWTS EXTRACTION WELL WITH DESIGNATION
- △ IW1 OLD GWTS INJECTION WELL WITH DESIGNATION
- ⊠ ERT-1 NEW GWTS EXTRACTION WELL WITH DESIGNATION
- - - - - APPROXIMATE PROPERTY LINE
- 20 — ISOCONCENTRATION CONTOUR LINE CONTOUR INTERVAL 2ug/L

THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.

Groundwater Samples Collected April 2013

Well	Vinyl chloride (ug/L)
DGC-11	ND
DGC-21	ND
DGC31	ND
DGC61	ND
DGC71	ND
DGC81	ND
DGC91	ND
DGC111	ND
DGC131	ND
DGC141	ND
DGC161	ND
DGC171	ND
DGC181	ND
DGC191	2
CDM1	ND
CDM2	ND
CDM3	ND
ERT-21	ND
ERT-71	ND
ERT-81	ND
ERT-91	ND
ERT-EW5	NS
ERT-EW6	NS
ERT-EW7	3
GMS-02	ND
TH-11B	ND
TH-6	ND
TH-7	2
TH-9	ND



**BREWSTER VILLAGE WELL FIELD**

**VINYL CHLORIDE ISOCONCENTRATION INTERMEDIATE WELLS**  
APRIL 2013

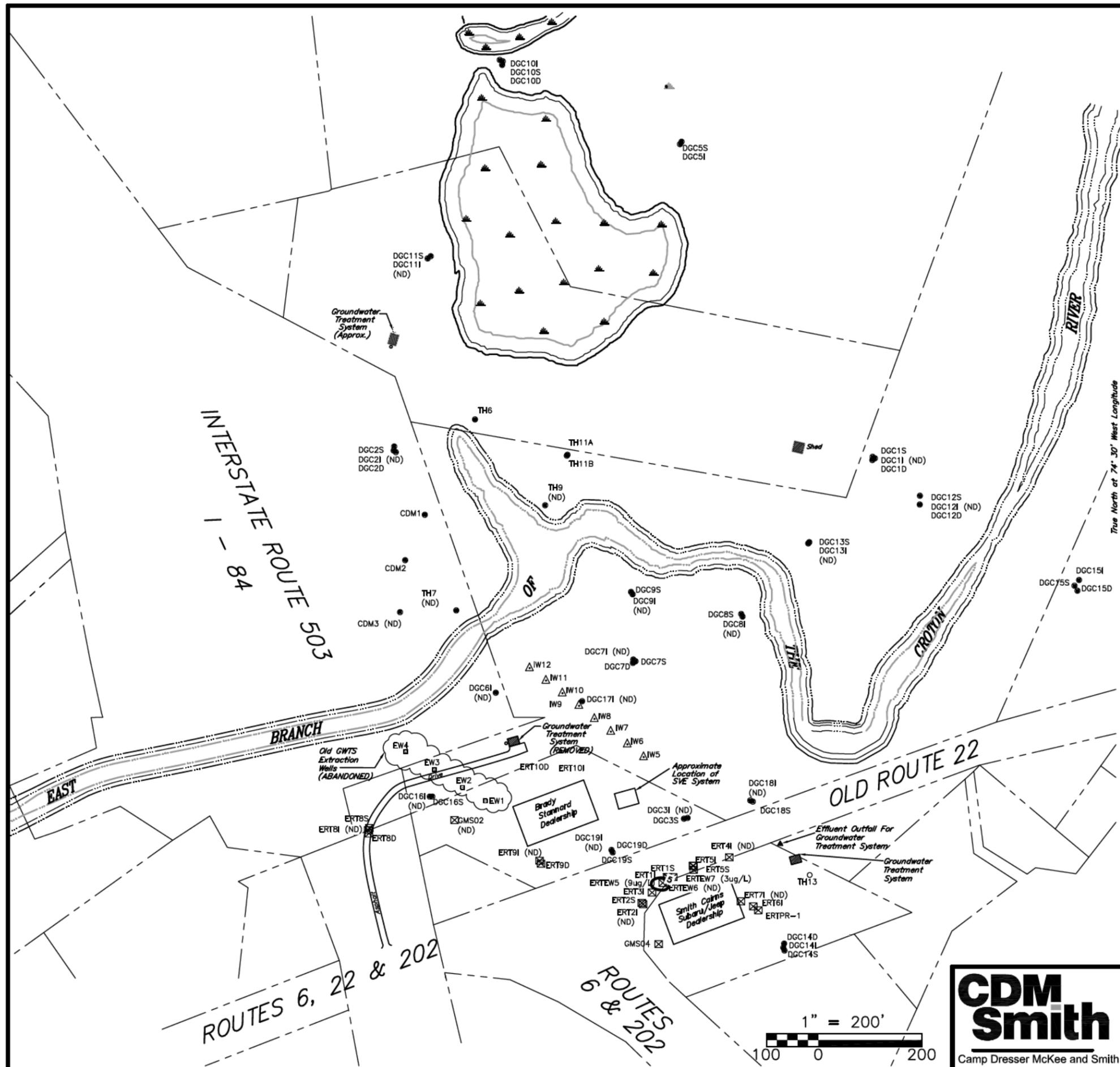
**FIGURE NO.**  
7

**LEGEND**

- ERTEW7 (3ug/L) MONITORING WELL WITH DESIGNATION (VINYL CHLORIDE CONCENTRATION, ug/L)
- EW1 OLD GWTS EXTRACTION WELL WITH DESIGNATION (ABANDONED)
- △ IW1 OLD GWTS INJECTION WELL WITH DESIGNATION
- ⊠ ERT-1 GWTS EXTRACTION WELL WITH DESIGNATION
- - - - - APPROXIMATE PROPERTY LINE
- 20 — ISOCONCENTRATION CONTOUR LINE  
CONTOUR INTERVAL 2ug/L

THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.

Groundwater Samples Collected April 2014	
Well	Vinyl chloride (ug/L)
DGC-1I	ND
DGC-2I	ND
DGC3I	ND
DGC6I	ND
DGC7I	ND
DGC8I	ND
DGC9I	ND
DGC11I	ND
DGC12I	ND
DGC13I	ND
DGC16I	ND
DGC17I	ND
DGC18I	ND
DGC19I	ND
CDM3	ND
ERT-2I	ND
ERT-4I	ND
ERT-7I	ND
ERT-8I	ND
ERT-9I	ND
ERT-EW5	9
ERT-EW6	ND
ERT-EW7	3
GMS-02	ND
TH-7	ND
TH-9	ND



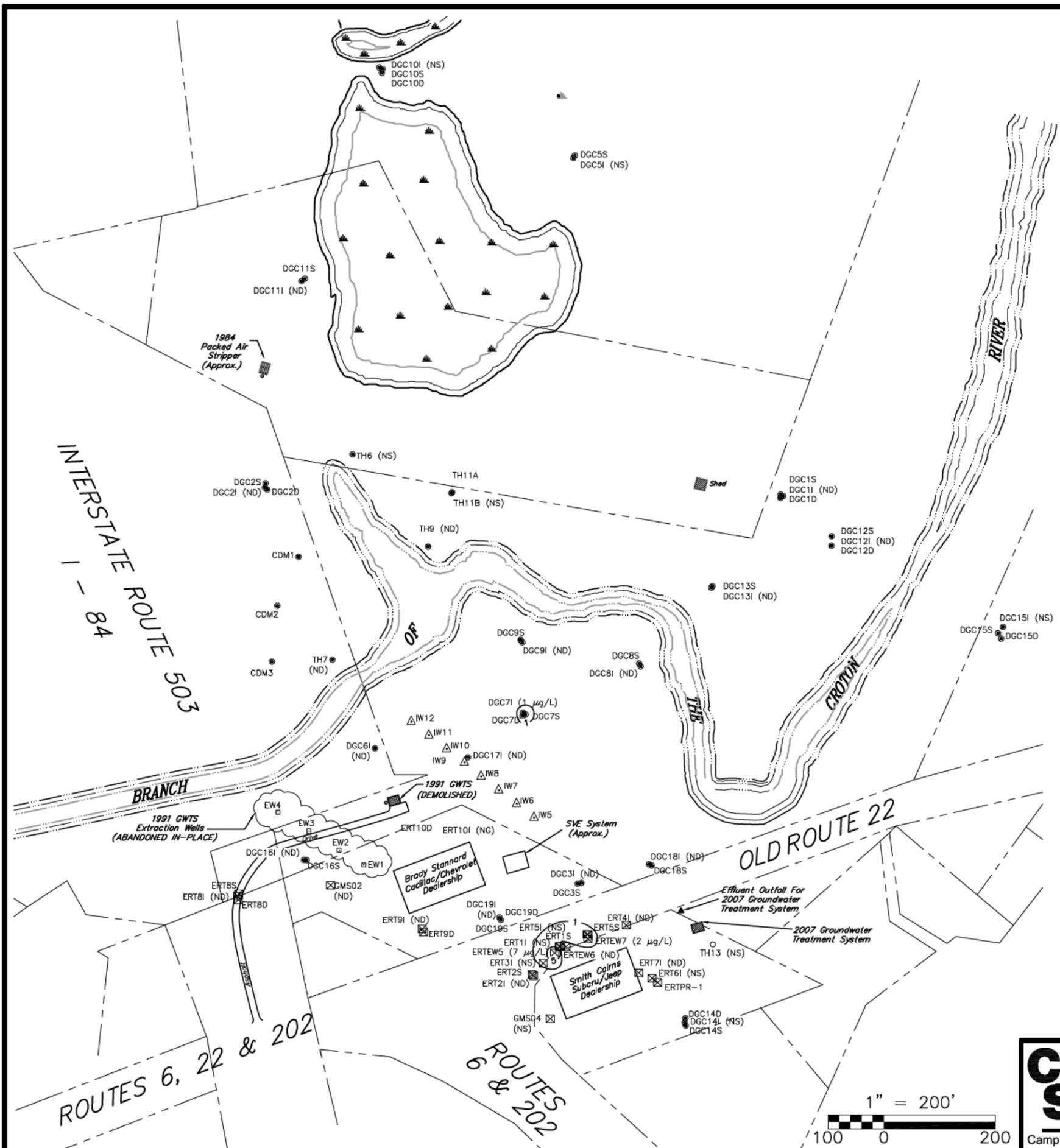
**BREWSTER VILLAGE WELL FIELD**

**VINYL CHLORIDE ISOCONCENTRATION INTERMEDIATE WELLS**

APRIL 2014

FIGURE NO. 6

C:\cdm\m\koskiar\d0772244\FIG-4 04/11/13 05:40 Koskiar



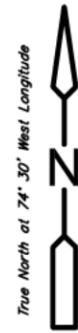
**LEGEND**

- DGCBS (45µg/L)
- EW1
- △ IW1
- ⊠ ERT-1
- APPROX. PROPERTY LINE
- 20 — ISOCONCENTRATION CONTOUR LINE (10 µg/L INTERVAL)

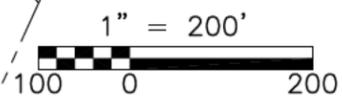
MONITORING WELL (CONCENTRATION)  
 1991 EXTRACTION WELL  
 1991 INJECTION WELL  
 2007 GWTS EXTRACTION WELL

THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.

Well	DCE (µg/l)	PCE (µg/l)	TCE (µg/l)	VC (µg/l)
DGC10I	NS	NS	NS	NS
DGC11I	ND	ND	ND	ND
DGC12I	ND	6	ND	ND
DGC13I	ND	ND	ND	ND
DGC14I	NS	NS	NS	NS
DGC15I	NS	NS	NS	NS
DGC16I	ND	2	ND	ND
DGC17I	62	3	5	ND
DGC18I	ND	ND	ND	ND
DGC19I	2	ND	ND	ND
DGC1I	ND	8	ND	ND
DGC2I	ND	ND	ND	ND
DGC3I	2	3	ND	ND
DGC5I	NS	NS	NS	NS
DGC6I	19	8	4	ND
DGC7I	75	ND	ND	1
DGC8I	ND	ND	ND	ND
DGC9I	7	3	4	ND
ERT1I	NS	NS	NS	NS
ERT2I	ND	ND	ND	ND
ERT3I	NS	NS	NS	NS
ERT4I	ND	ND	ND	ND
ERT5I	NS	NS	NS	NS
ERT6I	NS	NS	NS	NS
ERT7I	ND	ND	ND	ND
ERT8I	ND	ND	ND	ND
ERT9I	ND	ND	ND	ND
ERTEW5	30	730	4	7
ERTEW6	4	18	1	ND
ERTEW7	19	47	11	2
GMS02	ND	3	ND	ND
GMS04	NS	NS	NS	NS
TH11B	NS	NS	NS	NS
TH13	NS	NS	NS	NS
TH6	NS	NS	NS	NS
TH7	13	16	3	ND
TH9	ND	ND	ND	ND



NOTES:  
 ND NOT DETECTED  
 NS NOT SAMPLED  
 DCE CIS-1,2-DICHLOROETHYLENE  
 VC VINYL CHLORIDE  
 PCE TETRACHLOROETHYLENE  
 TCE TRICHLOROETHYLENE



 Camp Dresser McKee and Smith	<b>BREWSTER VILLAGE WELL FIELD</b>	GROUNDWATER VC CONCENTRATIONS FOR INTERMEDIATE WELLS	FIGURE NO.
		APRIL 2015	9

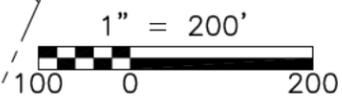
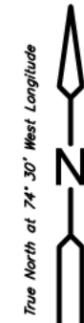
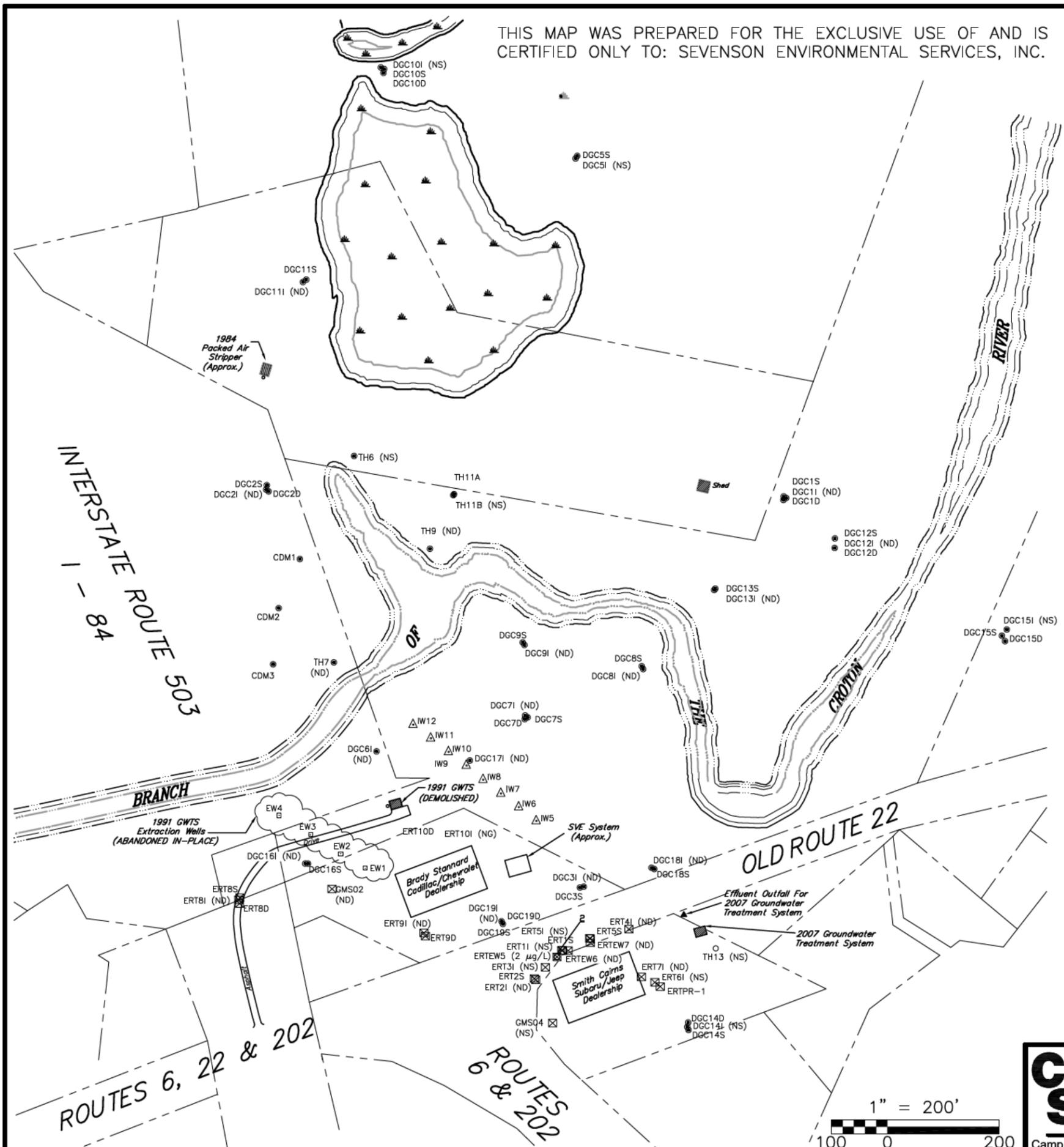
THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF AND IS CERTIFIED ONLY TO: SEVENSON ENVIRONMENTAL SERVICES, INC.

**LEGEND**

- DGC8S (45µg/L) MONITORING WELL (CONCENTRATION)
- EW1 1991 EXTRACTION WELL
- △ IW1 1991 INJECTION WELL
- ⊠ ERT-1 2007 GWTS EXTRACTION WELL
- APPROX. PROPERTY LINE
- 20' ISOCONCENTRATION CONTOUR LINE

WELL	DATE/TIME SAMPLED	GROUNDWATER ELEVATION (FT AMSL)	PCE	TCE	DCE	VC
CDM-1	5/9/2016	330.29	ND	ND	ND	ND
CDM-3	5/9/2016	330.39	6	ND	ND	ND
DGC1I	5/9/2016	331.17	8	ND	ND	ND
DGC2I	5/9/2016	330.93	ND	ND	ND	ND
DGC3I	5/10/2016	330.70	<5	<5	<5	ND
DGC6I	5/10/2016	330.49	10	<5	18	ND
DGC7I	5/10/2016	331.31	ND	ND	62	ND
DGC8I	5/11/2016	331.21	ND	<5	ND	ND
DGC9I	5/11/2016	331.11	ND	<5	ND	ND
DGC11I	5/9/2016	330.76	ND	ND	ND	ND
DGC12IA	5/9/2016	330.42	26	ND	ND	ND
DGC13I	5/9/2016	330.49	ND	ND	ND	ND
DGC16I	5/10/2016	331.43	10	<5	ND	ND
DGC17I	5/10/2016	331.35	6	7	50	ND
DGC18I	5/10/2016	331.58	ND	ND	ND	ND
DGC19I	5/10/2016	331.40	<5	ND	5	ND
ERT2I	5/11/2016	331.60	ND	ND	ND	ND
ERT4I	5/10/2016	331.87	ND	ND	ND	ND
ERT7I	5/11/2016	331.89	ND	ND	ND	ND
ERT8I	5/10/2016	331.30	<5	ND	ND	ND
ERT9I	5/10/2016	331.46	ND	ND	ND	ND
ERTEW5	5/11/2016	NG	750	<5	32	2
ERTEW6	5/11/2016	NG	44	<5	6	ND
ERTEW7	5/11/2016	NG	42	11	21	ND
GMS02	5/10/2016	331.45	5	ND	ND	ND
TH7	5/9/2016	330.55	17	<5	12	ND
TH9	5/9/2016	330.39	ND	ND	ND	ND

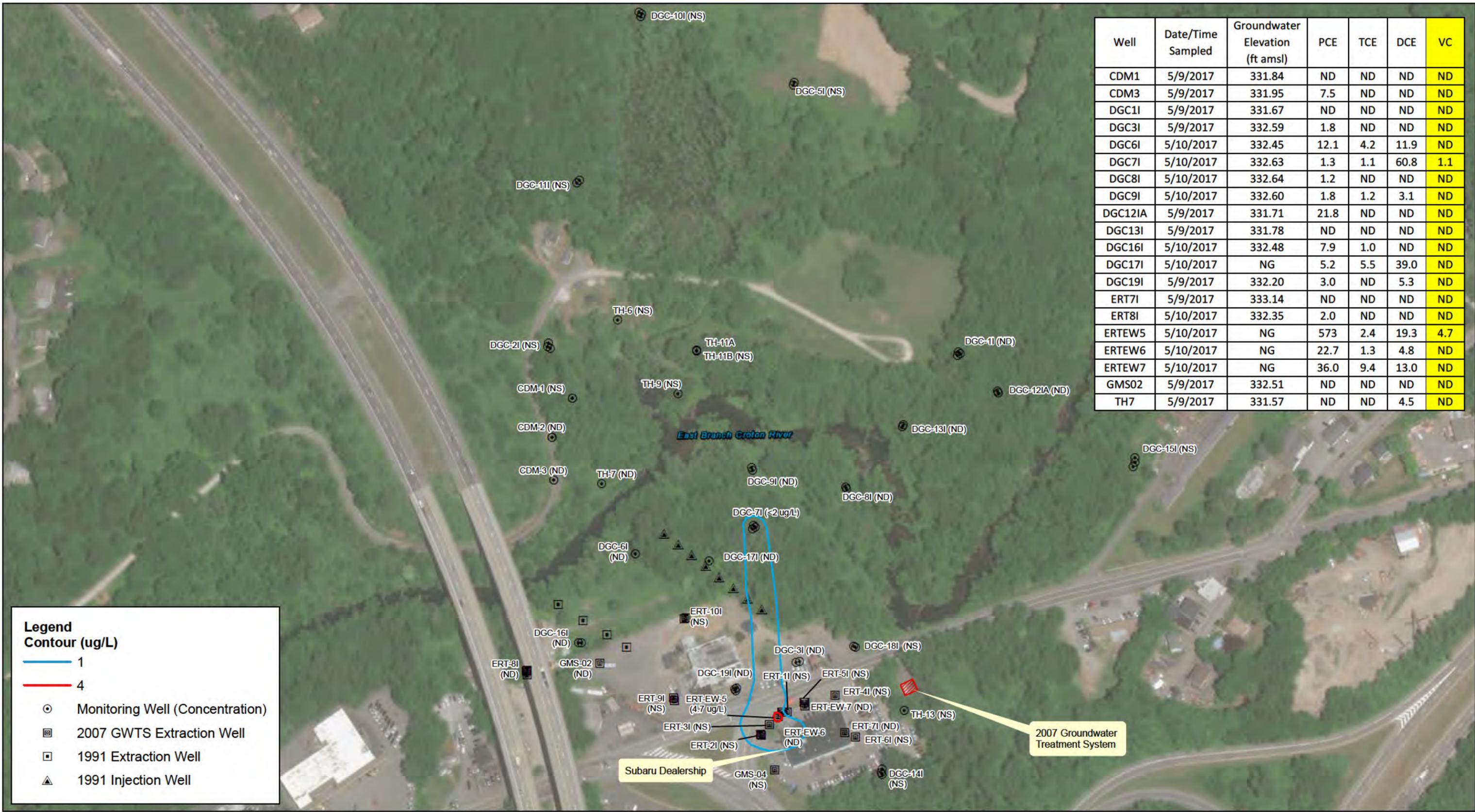
NOTES:  
 ND NOT DETECTED  
 NG NOT GAUGED  
 NS NOT SAMPLED  
 DCE CIS-1,2-DICHLOROETHYLENE  
 PCE TETRACHLOROETHYLENE  
 TCE TRICHLOROETHYLENE  
 VC VINYL CHLORIDE



**BREWSTER VILLAGE WELL FIELD**

**GROUNDWATER VC CONCENTRATIONS FOR INTERMEDIATE WELLS**  
 MAY 2016

**FIGURE NO.**  
 9



Well	Date/Time Sampled	Groundwater Elevation (ft amsl)	PCE	TCE	DCE	VC
CDM1	5/9/2017	331.84	ND	ND	ND	ND
CDM3	5/9/2017	331.95	7.5	ND	ND	ND
DGC1I	5/9/2017	331.67	ND	ND	ND	ND
DGC3I	5/9/2017	332.59	1.8	ND	ND	ND
DGC6I	5/10/2017	332.45	12.1	4.2	11.9	ND
DGC7I	5/10/2017	332.63	1.3	1.1	60.8	1.1
DGC8I	5/10/2017	332.64	1.2	ND	ND	ND
DGC9I	5/10/2017	332.60	1.8	1.2	3.1	ND
DGC12IA	5/9/2017	331.71	21.8	ND	ND	ND
DGC13I	5/9/2017	331.78	ND	ND	ND	ND
DGC16I	5/10/2017	332.48	7.9	1.0	ND	ND
DGC17I	5/10/2017	NG	5.2	5.5	39.0	ND
DGC19I	5/9/2017	332.20	3.0	ND	5.3	ND
ERT7I	5/9/2017	333.14	ND	ND	ND	ND
ERT8I	5/10/2017	332.35	2.0	ND	ND	ND
ERTEW5	5/10/2017	NG	573	2.4	19.3	4.7
ERTEW6	5/10/2017	NG	22.7	1.3	4.8	ND
ERTEW7	5/10/2017	NG	36.0	9.4	13.0	ND
GMS02	5/9/2017	332.51	ND	ND	ND	ND
TH7	5/9/2017	331.57	ND	ND	4.5	ND

**Legend**

**Contour (ug/L)**

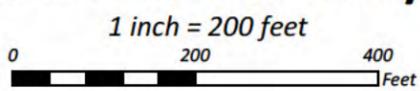
- 1
- 4

- Monitoring Well (Concentration)
- 2007 GWTS Extraction Well
- 1991 Extraction Well
- ▲ 1991 Injection Well



- Notes:
- All concentration contours are provided in micrograms per liter (ug/L).
  - GWTS - Groundwater Treatment System
  - NG - Not Gauged
  - NS - Not Sampled
  - ND - Not Detected
  - PCE - tetrachloroethene
  - TCE - trichloroethene
  - DCE - cis-1,2-dichloroethene
  - VC - vinyl chloride

### Groundwater VC Concentrations for Intermediate Wells - May 2017



Brewster Village Well Field  
Brewster, NY  
Figure 9



external C:\Users\pstrada\Desktop\Brewster\GIS\VC\interwv\_Contour\_2017.mxd 3/2/2018



**Legend**

**Contours (ug/L)**

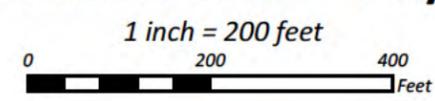
- 2
- 50
- 90

- ⊙ Monitoring Well (Concentration)
- ⊠ 2007 GWTS Extraction Well
- ⊡ 1991 Extraction Well
- ▲ 1991 Injection Well



- Notes:
- All concentration contours are provided in micrograms per liter (ug/L).
  - GWTS - Groundwater Treatment System
  - NG - Not Gauged
  - NS - Not Sampled
  - ND - Not Detected
  - PCE - tetrachloroethene
  - TCE - trichloroethene
  - DCE - cis-1,2-dichloroethene
  - VC - vinyl chloride

### Groundwater VC Concentrations for Intermediate Wells - May 2018



Brewster Village Well Field  
Brewster, NY  
Figure 9







**Legend**

**VC Concentration (ug/L)**

- ND
- 2
- 20

**Wells**

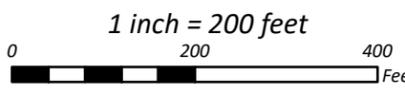
- Monitoring Wells (VC Concentration)
- 2007 Extraction Wells
- 1991 Extraction Wells
- 1991 Injection Wells



Notes:

- All concentration contours are provided in micrograms per liter (ug/L).
- ft amsl - feet above mean sea level
- NG - not gauged
- ND - not detected
- PCE - tetrachloroethene
- TCE - trichloroethene
- DCE - cis-1,2-dichloroethene
- VC - vinyl chloride

## Groundwater VC Concentrations for Intermediate Wells - September & October 2020



Brewster Village Well Field  
Brewster, NY  
Figure 3-4







**Legend**

**VC Concentration (µg/L)**

**Value**

- 1
- 5
- 25
- 50

**Wells**

**Symbol Type**

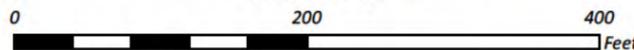
- Monitoring Wells (Concentration)
- ◻ 2007 Extraction Wells
- ◻ 1991 Extraction Wells
- ▲ 1991 Injection Wells

**Notes:**

1. All concentration contours are provided in micrograms per liter (µg/L).
2. Non-detect results assigned values equal to 0 µg/L
3. VC - vinyl chloride

**Groundwater VC Concentrations for Intermediate Wells — August 2023**

1 inch = 125 feet



Brewster Village Well Field  
Brewster, NY  
Figure 4-9





# Appendix H 2024 Annual Brewster Village Well Field Treatment System Analytical Results



# VILLAGE OF BREWSTER

INCORPORATED 1894

**JAMES J. SCHOENIG, MAYOR**

**CHRISTINE PICCINI, DEPUTY MAYOR**

TRUSTEES: | TOM BOISSONNAULT | MARY BRYDE | GEORGE GASPAR

CLERK & TREASURER  
MICHELLE DIEBOLD

DEPUTY CLERK-TREASURER  
DONNA MILAZZO

HIGHWAY SUPERINTENDENT  
DOMENIC CONSENTINO

VILLAGE COUNSEL  
JENNIFER HERODES  
GREG FOLCHETTI

POLICE COMMISSIONER  
JAMES J. SCHOENIG

POLICE CHIEF  
JOHN DEL GARDO

PLANNING BOARD CHAIR  
RICK LOWELL

ZONING BOARD OF  
APPEALS CHAIR  
ANTHONY MCFADDEN

## FACSIMILE COVER SHEET

To: Lisa Damato CDM Smith

From: Domenic Consentino DPW Superintendent

Fax # 860 290 7845

Date: 7-14-25

Number of pages including cover sheet: 17

INSTRUCTIONS: VOC Sample results

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



315 Fullerton Avenue \* Newburgh, NY 12550 \* TEL. (845) 562-0890

Project Location:

Sample Description:

Work Order: 24A0363

Date Received: 1/4/2024

Sampled: 1/3/2024 13:10

Field Sample #: Pump House

Sample ID: 24A0363-02

Sample Matrix: Drinking Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	MCL/SMCL			Flag/Qual	Method	Date	Date/Time	Analyst
			Units	Dilution	Prepared			Analyzed		
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
1,1,1-Trichloroethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
1,1,2-Trichloroethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
1,1-Dichloroethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
1,1-Dichloroethene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
1,1-Dichloropropene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
1,2,3-Trichloropropane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
1,2-Dichlorobenzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
1,2-Dichloroethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
1,2-Dichloroethene (Total)	1.9	1.0	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
1,2-Dichloropropane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
1,3-Dichlorobenzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
1,3-Dichloropropane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
1,4-Dichlorobenzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
2-Chlorotoluene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
2,2-Dichloropropane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
4-Chlorotoluene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
4-Isopropyltoluene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
Benzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
Bromobenzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
Bromomethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
Carbon tetrachloride	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
Chlorobenzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
Chlorobromomethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
Chloroethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
Chloromethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
cis-1,2-Dichloroethene	1.9	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
Dibromomethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
Ethylbenzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
Hexachlorobutadiene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
Methylene Chloride	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
m-Xylene/p-Xylene	ND	1.0	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	
Naphthalene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP	



315 Fullerton Avenue \* Newburgh, NY 12550 \* TEL. (845) 562-0890

Project Location:

Sample Description:

Work Order: 24A0363

Date Received: 1/4/2024

Field Sample #: Pump House

Sampled: 1/3/2024 13:10

Sample ID: 24A0363-03

Sample Matrix: Drinking Water

## Volatile Organic Compounds by GC/MS

## MCL/SMCL

Analyte	Results	RL	MCL/SMCL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
n-Butylbenzene	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP
N-Propylbenzene	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP
o-Xylene	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP
sec-Butylbenzene	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP
Styrene	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP
tert-Butyl benzene	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP
Tetrachloroethene	0.88	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP
Toluene	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP
trans-1,2-Dichloroethene	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP
trans-1,3-Dichloropropene	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP
Trichloroethene	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP
Trichlorofluoromethane (Freon 11)	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP
Vinyl chloride	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP
Xylene, Total	ND	1.5		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:45	GP

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4 (Surr)	104	70-128	1/6/24 23:45
4-Bromofluorobenzene	104	71-120	1/6/24 23:45
Toluene-d8 (Surr)	105	79-121	1/6/24 23:45



315 Fullerton Avenue \* Newburgh, NY 12550 \* TEL. (845) 562-0890

Project Location:

Sample Description:

Work Order: 24A0363

Date Received: 1/4/2024

Field Sample #: Well Field

Sampled: 1/3/2024 13:15

Sample ID: 24A0363-03

Sample Matrix: Drinking Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	MCL/SMCL			Method	Date	Date/Time	Analyst
			Units	Dilution	Flag/Qual		Prepared	Analyzed	
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
1,1,1-Trichloroethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
1,1,2-Trichloroethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
1,1-Dichloroethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
1,1-Dichloroethene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
1,1-Dichloropropene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
1,2,3-Trichloropropane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
1,2-Dichlorobenzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
1,2-Dichloroethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
1,2-Dichloroethene (Total)	1.1	1.0	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
1,2-Dichloropropane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
1,3-Dichlorobenzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
1,3-Dichloropropane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
1,4-Dichlorobenzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
2-Chlorotoluene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
2,2-Dichloropropane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
4-Chlorotoluene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
4-Isopropyltoluene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Benzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Bromobenzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Bromomethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Carbon tetrachloride	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Chlorobenzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Chlorobromomethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Chloroethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Chloromethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
cis-1,2-Dichloroethene	1.1	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Dibromomethane	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Ethylbenzene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Hexachlorobutadiene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Methylene Chloride	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
m-Xylene/p-Xylene	ND	1.0	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Naphthalene	ND	0.50	µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP



315 Fullerton Avenue \* Newburgh, NY 12550 \* TEL. (845) 562-0890

Project Location:

Sample Description:

Work Order: 24A0363

Date Received: 1/4/2024

Field Sample #: Well Field

Sampled: 1/3/2024 13:15

Sample ID: 24A0363-03

Sample Matrix: Drinking Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL						Prepared	Analyzed	
n-Butylbenzene	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
N-Propylbenzene	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
o-Xylene	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
sec-Butylbenzene	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Styrene	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
tert-Butyl benzene	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Tetrachloroethene	1.1	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Toluene	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
trans-1,2-Dichloroethene	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
trans-1,3-Dichloropropene	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Trichloroethene	0.50	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Trichlorofluoromethane (Freon 11)	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Vinyl chloride	ND	0.50		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP
Xylene, Total	ND	1.5		µg/L	1		EPA 524.2	1/6/24	1/6/24 23:24	GP

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4 (Surr)	104	70-128	1/6/24 23:24
4-Bromofluorobenzene	107	71-120	1/6/24 23:24
Toluene-d8 (Surr)	104	79-121	1/6/24 23:24



## ANALYTICAL RESULTS

Project: 24D1723

Pace Project No.: 70294740

Sample: 24D1723-01 PUMP HOUSE Lab ID: 70294740001 Collected: 04/15/24 08:00 Received: 04/18/24 08:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>		Analytical Method: EPA 524.2 Pace Analytical Services - Melville						
Benzene	ND	ug/L	0.50	1		04/24/24 18:19	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		04/24/24 18:19	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		04/24/24 18:19	74-97-5	
Bromomethane	ND	ug/L	0.50	1		04/24/24 18:19	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		04/24/24 18:19	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		04/24/24 18:19	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		04/24/24 18:19	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		04/24/24 18:19	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		04/24/24 18:19	108-90-7	
Chloroethane	ND	ug/L	0.50	1		04/24/24 18:19	75-00-3	
Chloromethane	ND	ug/L	0.50	1		04/24/24 18:19	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		04/24/24 18:19	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		04/24/24 18:19	106-43-4	
Dibromomethane	ND	ug/L	0.50	1		04/24/24 18:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		04/24/24 18:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		04/24/24 18:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		04/24/24 18:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		04/24/24 18:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		04/24/24 18:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		04/24/24 18:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		04/24/24 18:19	75-35-4	
cis-1,2-Dichloroethene	1.5	ug/L	0.50	1		04/24/24 18:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		04/24/24 18:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		04/24/24 18:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		04/24/24 18:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		04/24/24 18:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		04/24/24 18:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		04/24/24 18:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		04/24/24 18:19	10061-02-6	
Ethylbenzene	ND	ug/L	0.50	1		04/24/24 18:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	0.50	1		04/24/24 18:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		04/24/24 18:19	98-82-8	
p-Isopropyltoluene	ND	ug/L	0.50	1		04/24/24 18:19	99-87-6	
Methylene Chloride	ND	ug/L	0.50	1		04/24/24 18:19	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		04/24/24 18:19	1634-04-4	
n-Propylbenzene	ND	ug/L	0.50	1		04/24/24 18:19	103-65-1	
Styrene	ND	ug/L	0.50	1		04/24/24 18:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		04/24/24 18:19	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		04/24/24 18:19	79-34-5	
Tetrachloroethene	1.2	ug/L	0.50	1		04/24/24 18:19	127-18-4	
Toluene	ND	ug/L	0.50	1		04/24/24 18:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	1		04/24/24 18:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	1		04/24/24 18:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		04/24/24 18:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		04/24/24 18:19	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		04/24/24 18:19	79-01-6	

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Date: 04/25/2024 12:20 PM

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### ANALYTICAL RESULTS

 Project: 24D1723  
 Pace Project No.: 70294740

Sample: 24D1723-01 PUMP HOUSE Lab ID: 70294740001 Collected: 04/15/24 08:00 Received: 04/18/24 08:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>		Analytical Method: EPA 524.2 Pace Analytical Services - Melville						
Trichlorofluoromethane	ND	ug/L	0.50	1		04/24/24 18:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		04/24/24 18:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		04/24/24 18:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		04/24/24 18:19	108-67-8	
Vinyl chloride	ND	ug/L	0.50	1		04/24/24 18:19	75-01-4	
m&p-Xylene	ND	ug/L	0.50	1		04/24/24 18:19	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		04/24/24 18:19	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	90	%	70-130	1		04/24/24 18:19	2199-69-1	
4-Bromofluorobenzene (S)	89	%	70-130	1		04/24/24 18:19	460-00-4	

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## ANALYTICAL RESULTS

 Project: 24D0383  
 Pace Project No.: 70293185

Sample: 24D0383-01 WELL FIELD Lab ID: 70293185001 Collected: 04/02/24 13:10 Received: 04/05/24 08:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>		Analytical Method: EPA 524.2						
		Pace Analytical Services - Melville						
Benzene	ND	ug/L	0.50	1		04/10/24 22:52	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		04/10/24 22:52	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		04/10/24 22:52	74-97-5	
Bromomethane	ND	ug/L	0.50	1		04/10/24 22:52	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		04/10/24 22:52	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		04/10/24 22:52	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		04/10/24 22:52	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		04/10/24 22:52	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		04/10/24 22:52	108-90-7	
Chloroethane	ND	ug/L	0.50	1		04/10/24 22:52	75-00-3	
Chloromethane	ND	ug/L	0.50	1		04/10/24 22:52	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		04/10/24 22:52	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		04/10/24 22:52	106-43-4	
Dibromomethane	ND	ug/L	0.50	1		04/10/24 22:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		04/10/24 22:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		04/10/24 22:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		04/10/24 22:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		04/10/24 22:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		04/10/24 22:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		04/10/24 22:52	107-06-2	
1,1-Dichloroethane	ND	ug/L	0.50	1		04/10/24 22:52	75-35-4	
cis-1,2-Dichloroethane	1.3	ug/L	0.50	1		04/10/24 22:52	156-59-2	
trans-1,2-Dichloroethane	ND	ug/L	0.50	1		04/10/24 22:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		04/10/24 22:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		04/10/24 22:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		04/10/24 22:52	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		04/10/24 22:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		04/10/24 22:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		04/10/24 22:52	10061-02-6	
Ethylbenzene	ND	ug/L	0.50	1		04/10/24 22:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	0.50	1		04/10/24 22:52	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		04/10/24 22:52	98-82-8	
p-Isopropyltoluene	ND	ug/L	0.50	1		04/10/24 22:52	99-87-6	
Methylene Chloride	ND	ug/L	0.50	1		04/10/24 22:52	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		04/10/24 22:52	1634-04-4	L2
n-Propylbenzene	ND	ug/L	0.50	1		04/10/24 22:52	103-65-1	
Styrene	ND	ug/L	0.50	1		04/10/24 22:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		04/10/24 22:52	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		04/10/24 22:52	79-34-5	
Tetrachloroethane	1.2	ug/L	0.50	1		04/10/24 22:52	127-18-4	
Toluene	ND	ug/L	0.50	1		04/10/24 22:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	1		04/10/24 22:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	1		04/10/24 22:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		04/10/24 22:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		04/10/24 22:52	79-00-5	
Trichloroethane	ND	ug/L	0.50	1		04/10/24 22:52	79-01-6	

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### ANALYTICAL RESULTS

Project: 24D0383  
 Pace Project No.: 70293185

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 24D0383-01 WELL FIELD    Lab ID: 70293185001    Collected: 04/02/24 13:10    Received: 04/05/24 08:00    Matrix: Drinking Water</b>								
<b>524.2 MSV</b>								
Analytical Method: EPA 524.2 Pace Analytical Services - Melville								
Trichlorofluoromethane	ND	ug/L	0.50	1		04/10/24 22:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		04/10/24 22:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		04/10/24 22:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		04/10/24 22:52	108-67-8	
Vinyl chloride	ND	ug/L	0.50	1		04/10/24 22:52	75-01-4	
m&p-Xylene	ND	ug/L	0.50	1		04/10/24 22:52	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		04/10/24 22:52	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	93	%	70-130	1		04/10/24 22:52	2199-69-1	
4-Bromofluorobenzene (S)	95	%	70-130	1		04/10/24 22:52	460-00-4	

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### ANALYTICAL RESULTS

 Project: 24G1036  
 Pace Project No.: 70304689

Sample: 24G1036-02 PUMP HOUSE Lab ID: 70304689001 Collected: 07/08/24 13:10 Received: 07/11/24 07:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>								
Analytical Method: EPA 524.2								
Pace Analytical Services - Melville								
Benzene	ND	ug/L	0.50	1		07/19/24 16:47	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		07/19/24 16:47	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		07/19/24 16:47	74-97-5	
Bromodichloromethane	8.1	ug/L	0.50	1		07/19/24 16:47	75-27-4	
Bromoform	ND	ug/L	0.50	1		07/19/24 16:47	75-25-2	
Bromomethane	ND	ug/L	0.50	1		07/19/24 16:47	74-83-9	L1
n-Butylbenzene	ND	ug/L	0.50	1		07/19/24 16:47	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		07/19/24 16:47	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		07/19/24 16:47	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		07/19/24 16:47	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		07/19/24 16:47	108-90-7	
Chloroethane	ND	ug/L	0.50	1		07/19/24 16:47	75-00-3	L1
Chloroform	9.5	ug/L	0.50	1		07/19/24 16:47	67-66-3	
Chloromethane	ND	ug/L	0.50	1		07/19/24 16:47	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		07/19/24 16:47	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		07/19/24 16:47	106-43-4	
Dibromochloromethane	3.0	ug/L	0.50	1		07/19/24 16:47	124-48-1	
Dibromomethane	ND	ug/L	0.50	1		07/19/24 16:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		07/19/24 16:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		07/19/24 16:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		07/19/24 16:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		07/19/24 16:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		07/19/24 16:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		07/19/24 16:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		07/19/24 16:47	75-35-4	
cis-1,2-Dichloroethene	1.6	ug/L	0.50	1		07/19/24 16:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		07/19/24 16:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		07/19/24 16:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		07/19/24 16:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		07/19/24 16:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		07/19/24 16:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		07/19/24 16:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		07/19/24 16:47	10061-02-6	
Ethylbenzene	ND	ug/L	0.50	1		07/19/24 16:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	0.50	1		07/19/24 16:47	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		07/19/24 16:47	98-82-8	
p-Isopropyltoluene	ND	ug/L	0.50	1		07/19/24 16:47	99-87-6	
Methylene Chloride	ND	ug/L	0.50	1		07/19/24 16:47	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		07/19/24 16:47	1634-04-4	
n-Propylbenzene	ND	ug/L	0.50	1		07/19/24 16:47	103-65-1	
Styrene	ND	ug/L	0.50	1		07/19/24 16:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		07/19/24 16:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		07/19/24 16:47	79-34-5	
Tetrachloroethene	1.5	ug/L	0.50	1		07/19/24 16:47	127-18-4	D6
Toluene	ND	ug/L	0.50	1		07/19/24 16:47	108-88-3	
Total Trihalomethanes (Calc.)	20.6	ug/L	0.50	1		07/19/24 16:47		

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### ANALYTICAL RESULTS

Project: 24G1036  
 Pace Project No.: 70304689

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 24G1036-02 PUMP HOUSE    Lab ID: 70304689001    Collected: 07/08/24 13:10    Received: 07/11/24 07:00    Matrix: Drinking Water</b>								
<b>524.2 MSV</b>								
Analytical Method: EPA 524.2 Pace Analytical Services - Melville								
1,2,3-Trichlorobenzene	ND	ug/L	0.50	1	07/19/24 16:47	07/19/24 16:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	1	07/19/24 16:47	07/19/24 16:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1	07/19/24 16:47	07/19/24 16:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1	07/19/24 16:47	07/19/24 16:47	79-00-5	
Trichloroethene	ND	ug/L	0.50	1	07/19/24 16:47	07/19/24 16:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	0.50	1	07/19/24 16:47	07/19/24 16:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1	07/19/24 16:47	07/19/24 16:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1	07/19/24 16:47	07/19/24 16:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1	07/19/24 16:47	07/19/24 16:47	108-67-8	
Vinyl chloride	ND	ug/L	0.50	1	07/19/24 16:47	07/19/24 16:47	75-01-4	
Xylene (Total)	ND	ug/L	0.50	1	07/19/24 16:47	07/19/24 16:47	1330-20-7	
m&p-Xylene	ND	ug/L	0.50	1	07/19/24 16:47	07/19/24 16:47	179601-23-1	
o-Xylene	ND	ug/L	0.50	1	07/19/24 16:47	07/19/24 16:47	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	90	%	70-130	1	07/19/24 16:47	07/19/24 16:47	2199-69-1	
4-Bromofluorobenzene (S)	95	%	70-130	1	07/19/24 16:47	07/19/24 16:47	460-00-4	

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## ANALYTICAL RESULTS

Project: 24G1036

Pace Project No.: 70304689

Sample: 24G1036-03 WELL FIELD Lab ID: 70304689002 Collected: 07/08/24 13:20 Received: 07/11/24 07:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>								
Analytical Method: EPA 524.2								
Pace Analytical Services - Melville								
Benzene	ND	ug/L	0.50	1		07/19/24 13:45	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		07/19/24 13:45	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		07/19/24 13:45	74-97-5	
Bromodichloromethane	1.6	ug/L	0.50	1		07/19/24 13:45	75-27-4	
Bromoform	ND	ug/L	0.50	1		07/19/24 13:45	75-25-2	
Bromomethane	ND	ug/L	0.50	1		07/19/24 13:45	74-83-9	L1
n-Butylbenzene	ND	ug/L	0.50	1		07/19/24 13:45	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		07/19/24 13:45	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		07/19/24 13:45	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		07/19/24 13:45	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		07/19/24 13:45	108-90-7	
Chloroethane	ND	ug/L	0.50	1		07/19/24 13:45	75-00-3	L1
Chloroform	5.1	ug/L	0.50	1		07/19/24 13:45	67-66-3	
Chloromethane	0.97	ug/L	0.50	1		07/19/24 13:45	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		07/19/24 13:45	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		07/19/24 13:45	106-43-4	
Dibromochloromethane	ND	ug/L	0.50	1		07/19/24 13:45	124-48-1	
Dibromomethane	ND	ug/L	0.50	1		07/19/24 13:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		07/19/24 13:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		07/19/24 13:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		07/19/24 13:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		07/19/24 13:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		07/19/24 13:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		07/19/24 13:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		07/19/24 13:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		07/19/24 13:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		07/19/24 13:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		07/19/24 13:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		07/19/24 13:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		07/19/24 13:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		07/19/24 13:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		07/19/24 13:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		07/19/24 13:45	10061-02-6	
Ethylbenzene	ND	ug/L	0.50	1		07/19/24 13:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	0.50	1		07/19/24 13:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		07/19/24 13:45	98-82-8	
p-Isopropyltoluene	ND	ug/L	0.50	1		07/19/24 13:45	99-87-6	
Methylene Chloride	ND	ug/L	0.50	1		07/19/24 13:45	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		07/19/24 13:45	1634-04-4	
n-Propylbenzene	ND	ug/L	0.50	1		07/19/24 13:45	103-65-1	
Styrene	ND	ug/L	0.50	1		07/19/24 13:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		07/19/24 13:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		07/19/24 13:45	79-34-5	
Tetrachloroethane	1.3	ug/L	0.50	1		07/19/24 13:45	127-18-4	
Toluene	ND	ug/L	0.50	1		07/19/24 13:45	108-88-3	
Total Trihalomethanes (Calc.)	6.6	ug/L	0.50	1		07/19/24 13:45		

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### ANALYTICAL RESULTS

 Project: 24G1036  
 Pace Project No.: 70304689

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 24G1036-03 WELL FIELD    Lab ID: 70304689002    Collected: 07/08/24 13:20    Received: 07/11/24 07:00    Matrix: Drinking Water</b>								
<b>524.2 MSV</b>								
Analytical Method: EPA 524.2 Pace Analytical Services - Melville								
1,2,3-Trichlorobenzene	ND	ug/L	0.50	1		07/19/24 13:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	1		07/19/24 13:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		07/19/24 13:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		07/19/24 13:45	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		07/19/24 13:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	0.50	1		07/19/24 13:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		07/19/24 13:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		07/19/24 13:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		07/19/24 13:45	108-67-8	
Vinyl chloride	ND	ug/L	0.50	1		07/19/24 13:45	75-01-4	
Xylene (Total)	ND	ug/L	0.50	1		07/19/24 13:45	1330-20-7	
m&p-Xylene	ND	ug/L	0.50	1		07/19/24 13:45	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		07/19/24 13:45	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	101	%	70-130	1		07/19/24 13:45	2199-69-1	
4-Bromofluorobenzene (S)	99	%	70-130	1		07/19/24 13:45	460-00-4	

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Melville, NY 11747  
516-370-6000

### ANALYTICAL RESULTS

Project: 24J1275  
Pace Project No.: 70317529

Sample: 24J1275-02 PUMPHOUSE Lab ID: 70317529001 Collected: 10/08/24 13:10 Received: 10/12/24 09:25 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>		Analytical Method: EPA 524.2 Pace Analytical Services - Melville						
Benzene	ND	ug/L	0.50	1		10/22/24 15:35	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/22/24 15:35	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/22/24 15:35	74-97-5	
Bromodichloromethane	8.7	ug/L	0.50	1		10/22/24 15:35	75-27-4	
Bromoforn	ND	ug/L	0.50	1		10/22/24 15:35	75-25-2	
Bromomethane	ND	ug/L	0.50	1		10/22/24 15:35	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/22/24 15:35	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/22/24 15:35	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/22/24 15:35	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/22/24 15:35	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/22/24 15:35	108-90-7	
Chloroethane	ND	ug/L	0.50	1		10/22/24 15:35	75-00-3	
Chloroform	9.8	ug/L	0.50	1		10/22/24 15:35	87-68-3	
Chloromethane	ND	ug/L	0.50	1		10/22/24 15:35	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/22/24 15:35	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/22/24 15:35	106-43-4	
Dibromochloromethane	4.7	ug/L	0.50	1		10/22/24 15:35	124-48-1	
Dibromomethane	ND	ug/L	0.50	1		10/22/24 15:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/22/24 15:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/22/24 15:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/22/24 15:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/22/24 15:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/22/24 15:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/22/24 15:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/22/24 15:35	75-35-4	
cis-1,2-Dichloroethene	2.4	ug/L	0.50	1		10/22/24 15:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/24 15:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/22/24 15:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/22/24 15:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/22/24 15:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		10/22/24 15:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/24 15:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/24 15:35	10061-02-6	
Ethylbenzene	ND	ug/L	0.50	1		10/22/24 15:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	0.50	1		10/22/24 15:35	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/22/24 15:35	98-82-8	
p-Isopropyltoluene	ND	ug/L	0.50	1		10/22/24 15:35	99-87-6	
Methylene Chloride	ND	ug/L	0.50	1		10/22/24 15:35	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/22/24 15:35	1634-04-4	
n-Propylbenzene	ND	ug/L	0.50	1		10/22/24 15:35	103-65-1	
Styrene	ND	ug/L	0.50	1		10/22/24 15:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/24 15:35	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/24 15:35	79-34-5	
Tetrachloroethene	1.6	ug/L	0.50	1		10/22/24 15:35	127-18-4	
Toluene	ND	ug/L	0.50	1		10/22/24 15:35	108-88-3	
Total Trihalomethanes (Calc.)	23.2	ug/L	0.50	1		10/22/24 15:35		

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516-370-6000

## ANALYTICAL RESULTS

Project: 24J1275  
Pace Project No.: 70317529

Sample: 24J1275-02 PUMPHOUSE Lab ID: 70317529001 Collected: 10/08/24 13:10 Received: 10/12/24 09:25 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>		Analytical Method: EPA 524.2 Pace Analytical Services - Melville						
1,2,3-Trichlorobenzene	ND	ug/L	0.50	1		10/22/24 15:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	1		10/22/24 15:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/22/24 15:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/22/24 15:35	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/22/24 15:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	0.50	1		10/22/24 15:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/22/24 15:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/22/24 15:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/22/24 15:35	108-67-8	
Vinyl chloride	ND	ug/L	0.50	1		10/22/24 15:35	75-01-4	
Xylene (Total)	ND	ug/L	0.50	1		10/22/24 15:35	1330-20-7	
m&p-Xylene	ND	ug/L	0.50	1		10/22/24 15:35	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/22/24 15:35	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	96	%	70-130	1		10/22/24 15:35	2199-69-1	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/22/24 15:35	460-00-4	

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Melville, NY 11747

516-370-6000

## ANALYTICAL RESULTS

Project: 24J1275  
Pace Project No.: 70317529

Sample: 24J1275-03 WELL FIELD Lab ID: 70317529002 Collected: 10/08/24 13:15 Received: 10/12/24 09:25 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>		Analytical Method: EPA 524.2						
		Pace Analytical Services - Melville						
Benzene	ND	ug/L	0.50	1		10/22/24 15:57	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/22/24 15:57	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/22/24 15:57	74-97-5	
Bromodichloromethane	1.6	ug/L	0.50	1		10/22/24 15:57	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/22/24 15:57	75-25-2	
Bromomethane	ND	ug/L	0.50	1		10/22/24 15:57	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/22/24 15:57	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/22/24 15:57	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/22/24 15:57	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/22/24 15:57	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/22/24 15:57	108-90-7	
Chloroethane	ND	ug/L	0.50	1		10/22/24 15:57	75-00-3	
Chloroform	4.6	ug/L	0.50	1		10/22/24 15:57	67-66-3	
Chloromethane	0.60	ug/L	0.50	1		10/22/24 15:57	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/22/24 15:57	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/22/24 15:57	106-43-4	
Dibromochloromethane	ND	ug/L	0.50	1		10/22/24 15:57	124-48-1	
Dibromomethane	ND	ug/L	0.50	1		10/22/24 15:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/22/24 15:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/22/24 15:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/22/24 15:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/22/24 15:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/22/24 15:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/22/24 15:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/22/24 15:57	75-35-4	
cis-1,2-Dichloroethene	1.0	ug/L	0.50	1		10/22/24 15:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/24 15:57	156-60-6	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/22/24 15:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/22/24 15:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/22/24 15:57	594-20-7	
1,1-Dichloropropane	ND	ug/L	0.50	1		10/22/24 15:57	583-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/24 15:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/24 15:57	10061-02-6	
Ethylbenzene	ND	ug/L	0.50	1		10/22/24 15:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	0.50	1		10/22/24 15:57	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/22/24 15:57	98-82-8	
p-Isopropyltoluene	ND	ug/L	0.50	1		10/22/24 15:57	99-87-6	
Methylene Chloride	ND	ug/L	0.50	1		10/22/24 15:57	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/22/24 15:57	1634-04-4	
n-Propylbenzene	ND	ug/L	0.50	1		10/22/24 15:57	103-65-1	
Styrene	ND	ug/L	0.50	1		10/22/24 15:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/24 15:57	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/24 15:57	79-34-5	
Tetrachloroethene	2.5	ug/L	0.50	1		10/22/24 15:57	127-18-4	
Toluene	ND	ug/L	0.50	1		10/22/24 15:57	108-88-3	
Total Trihalomethanes (Calc.)	6.3	ug/L	0.50	1		10/22/24 15:57		

## REPORT OF LABORATORY ANALYSIS

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Date: 10/24/2024 08:20 AM

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## ANALYTICAL RESULTS

Project: 24J1275  
Pace Project No.: 70317529

Sample: 24J1275-03 WELL FIELD Lab ID: 70317529002 Collected: 10/08/24 13:15 Received: 10/12/24 09:25 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>		Analytical Method: EPA 524.2 Pace Analytical Services - Melville						
1,2,3-Trichlorobenzene	ND	ug/L	0.50	1		10/22/24 15:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	1		10/22/24 15:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/22/24 15:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/22/24 15:57	79-00-5	
Trichloroethene	0.59	ug/L	0.50	1		10/22/24 15:57	79-01-8	
Trichlorofluoromethane	ND	ug/L	0.50	1		10/22/24 15:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/22/24 15:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/22/24 15:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/22/24 15:57	108-67-8	
Vinyl chloride	ND	ug/L	0.50	1		10/22/24 15:57	75-01-4	
Xylene (Total)	ND	ug/L	0.50	1		10/22/24 15:57	1330-20-7	
m&p-Xylene	ND	ug/L	0.50	1		10/22/24 15:57	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/22/24 15:57	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	100	%	70-130	1		10/22/24 15:57	2199-69-1	
4-Bromofluorobenzene (S)	94	%	70-130	1		10/22/24 15:57	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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# Appendix I Statistical Trend Analysis

CDM-3				
Date	PCE µg/l	PCE signs	TCE µg/l	TCE signs
December-10	7		5	
May-11	14	1	2	-1
December-12	8	0	1	-2
May-13	8	0	1	-2
April-14	8	0	2	1
May-16	6	-5	5	4
May-17	7.5	-2	5	4
May-18	9	5	1.1	-3
August-19	3.3	-8	0.5	-8
September-20	1.5	-9	0.31	-9
June-21	6.2	-4	0.84	-6
December-22	13	9	1.5	1
August-23	8.6	6	1	-4
April/ May 2025	10.0	9	1.0	-4
<b>S</b>		2		-29
<b>count (n)</b>		14		14
<b>g</b>		0		2
<b>t<sub>1</sub></b>		0		3
<b>t<sub>2</sub></b>		0		2
<b>t<sub>3</sub></b>		0		0
<b>VAR(S) :</b>		333.67		329.00
<b>Z</b>		0.05		1.54
<b>α/2(normal dist.)</b>		1.96		1.96
<b>Null hypothesis</b>		Accept		Accept
<b>Trend Analysis Result</b>		Trend does not exist		Trend does not exist
<b>Slope of Data</b>		Increasing		Decreasing

**Mann-Kendall Test**

Null hypothesis: no trend currently exists. The null hypothesis is rejected if the probability value (Z) is greater than α/2 .

Sample Variance must be modified if ties are present using the equation:

$$VAR (S) = \frac{1}{18} \left[ n(n-1)(2n+5) - \sum_{p=1}^g t_p(t_p-1)(2t_p+5) \right]$$

where g is the quantity of tied groups and t<sub>p</sub> is the quantity of data in the p<sup>th</sup> group

Note: If a result was nondetect, then half of the detection limit was used.

**Color Key:**

- Nondetect - value equal to half the report
- Change in value from graphs spreadsheet
- Nondetect - value is equal to MDL (lab reported as ND at MDL even though RL is higher)
- Changed via spot check based upon Table 3-6\_3-8 2013 GW Results\_validated

Appendix I - Mann-Kendall Statistical Analyses  
 April 2025 and May 2025  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

DGC-16I						
Date	PCE µg/l	PCE signs	TCE µg/l	TCE signs	cis-1,2-DCE µg/l	cis-1,2-DCE signs
December-00	13.1		1.5		0.6	
Mar-01	25.7	1	2.4	1	0.6	0
Jun-01	17.6	0	1.8	0	0.6	0
Oct-01	15.6	-1	1.7	-1	0.6	0
Dec-01	7.8	-4	1	-4	0.1	-4
March 2002	16.1	1	1.8	1	0.5	-3
June 2002	8	-4	1.1	-4	0.5	-3
September 2002	4.8	-7	0.7	-7	0.5	-3
December 2002	12.7	-2	1.6	0	0.5	-3
March 2003	23.5	7	2.2	7	0.6	1
June 2003	25.8	10	7.4	10	26.4	10
September 2003	27.2	11	2	5	0.4	-9
March 2004	27.1	10	2.1	6	0.4	-8
June 2004	21.9	3	2.1	6	0.3	-11
September 2004	13.9	-4	1.4	-8	0.1	-12
December 2004	15.6	-2	1.6	-3	0.1	-13
March 2005	19.8	4	1.9	4	0.5	0
June 2005	22.2	7	2.1	11	0.5	0
September 2005	157	18	20	18	0.5	0
December 2005	20.1	3	1.7	-4	0.5	0
May 2008	5	-18	5	16	5.0	18
April 2009	3	-21	5	16	5.0	18
December 2010	2	-22	5	16	5	18
May 2011	1	-23	5	16	5	18
December 2012	11	-10	1	-22	5	18
May 2013	7	-15	5	17	2.5	13
April 2014	9	-10	2	2	2.5	13
April 2015	2	-24	5	18	2.5	13
May 2016	10	-8	1	-25	2.5	13
May 2017	7.9	-13	1	-25	2.5	13
May 2018	7.6	-16	1.1	-20	0.5	-10
August 2019	3.4	-23	0.5	-31	0.5	-10
September 2020	2	-28	0.42	-32	2.5	15
June 2021	2.8	-25	0.59	-29	2.5	15
December 2022	4.4	-20	0.85	-26	0.22	-28
August 2023	2.4	-27	0.18	-35	0.5	-11
April/ May 2025	2.8	-25	0.53	-30	0.23	-28
<b>S</b>		-277		-136		40
<b>count (n)</b>		37		37		37
<b>g</b>		0		0		0
<b>t<sub>1</sub></b>		0		0		0
<b>t<sub>2</sub></b>		0		0		0
<b>t<sub>3</sub></b>		0		0		0
<b>VAR(S) :</b>		5846		5846		5846
<b>Z</b>		3.610		1.766		0.510
<b>α/2(normal dist.)</b>		1.960		1.960		1.960
<b>Null hypothesis</b>		Reject		Accept		Accept
<b>Trend Analysis Result</b>		Trend exists		Trend does not exist		Trend does not exist
<b>Slope of Data</b>		Decreasing		Decreasing		Increasing

**Mann-Kendall Test**

Null hypothesis: no trend currently exists. The null hypothesis is rejected if the probability value (Z) is greater than a/2 .

Sample Variance must be modified if ties are present using the equation:

$$VAR(S) = \frac{1}{18} \left[ n(n-1)(2n+5) - \sum_{p=1}^g t_p(t_p-1)(2t_p+5) \right]$$

where g is the quantity of tied groups and t<sub>p</sub> is the quantity of data in the p<sup>th</sup> group

Note: If a result was nondetect, then half of the detection limit was used.

**Color Key:**

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Appendix I - Mann-Kendall Statistical Analyses  
 April 2025 and May 2025  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

**DGC-171**

Date	PCE µg/l	PCE signs	TCE µg/l	TCE signs	cis-1,2-DCE µg/l	cis-1,2-DCE signs
May 2008	7		2		5.0	
April 2009	8	1	2	0	5.0	0
December 2010	15	2	5	2	15.0	2
May 2011	6	-3	6	3	46.0	3
December 2012	5	-4	4	0	55.0	4
May 2013	3	-5	3	-1	34	1
April 2014	1	-6	2	-4	22	0
April 2015	3	-4	5	4	62	7
May 2016	6	1	7	8	50	4
May 2017	5.2	-1	5.5	5	39	1
May 2018	3.6	-4	3.4	-2	21	-4
August 2019	0.5	-11	1	-11	4.4	-11
September 2020	1.2	-8	0.67	-12	3.7	-12
June 2021	2.3	-7	1.3	-9	8.8	-5
December 2022	2.7	-6	1.1	-10	4.7	-10
April/ May 2025	1.7	-9	0.68	-13	6.8	-5
<b>S</b>		-64		-40		-25
<b>count (n)</b>		16		16		16
<b>g</b>		0		2		2
<b>t<sub>1</sub></b>		0		3		3
<b>t<sub>2</sub></b>		0		2		2
<b>t<sub>3</sub></b>		0		0		0
<b>VAR(S) :</b>		493.33		488.67		488.67
<b>Z</b>		2.84		1.76		1.09
<b>α/2(normal dist.)</b>		1.96		1.96		1.96
<b>Null hypothesis</b>		Reject		Accept		Accept
<b>Trend Analysis Result</b>		Trend exists		Trend does not exist		Trend does not exist
<b>Slope of Data</b>		Decreasing		Decreasing		Decreasing

**Mann-Kendall Test**

Null hypothesis: no trend currently exists. The null hypothesis is rejected if the probability value (Z) is greater than α/2 .

Sample Variance must be modified if ties are present using the equation:

$$VAR (S) = \frac{1}{18} \left[ n(n-1)(2n+5) - \sum_{p=1}^g t_p(t_p-1)(2t_p+5) \right]$$

where g is the quantity of tied groups and t<sub>p</sub> is the quantity of data in the p<sup>th</sup> group

Note: If a result was nondetect, then half of the detection limit was used.

**Color Key:**

- Nondetect - value equal to half the reporting limit
- Change in value from graphs spreadsheet
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- Changed via spot check based upon Table 3-6\_3-8 2013 GW Results\_validated

Appendix I - Mann-Kendall Statistical Analyses  
 April 2025 and May 2025  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

**DGC-11**

Date	PCE µg/l	PCE signs	TCE µg/l	TCE signs	cis-1,2-DCE µg/l	cis-1,2-DCE signs
April 2009	1		5		5.0	
December 2010	1	0	5	0	5	0
May 2011	5	2	5	0	5	0
December 2012	7	3	5	0	5	0
May 2013	13	4	5	0	2.5	-4
April 2014	2	-1	5	0	2.5	-4
April 2015	8	4	5	0	2.5	-4
May 2016	8	4	5	0	2.5	-4
May 2017	5	-1	5	0	2.5	-4
May 2018	9.5	7	0.58	-9	0.5	-9
August 2019	7.3	2	0.5	-10	0.5	-9
September 2020	6.8	-1	1.4	-7	0.34	-11
June 2021	8.0	6	1.1	-8	2.5	-1
December 2022	6.5	-3	0.89	-9	0.075	-13
August 2023	8.8	10	0.26	-14	0.5	-8
April/ May 2025	7.6	3	0.2	-15	0.23	-13
<b>S</b>		39		-72		-84
<b>count (n)</b>		16		16		16
<b>g</b>		0		2		2
<b>t<sub>1</sub></b>		0		3		3
<b>t<sub>2</sub></b>		0		2		2
<b>t<sub>3</sub></b>		0		0		0
<b>VAR(S) :</b>		493.33		488.67		488.67
<b>Z</b>		1.71		3.21		3.75
<b>α/2(normal dist.)</b>		1.96		1.96		1.96
<b>Null hypothesis</b>		Accept		Reject		Reject
<b>Trend Analysis Result</b>		Trend does not exist		Trend exists		Trend exists
<b>Slope of Data</b>		Increasing		Decreasing		Decreasing

**Mann-Kendall Test**

Null hypothesis: no trend currently exists. The null hypothesis is rejected if the probability value (Z) is greater than α/2 .

Sample Variance must be modified if ties are present using the equation:

$$VAR (S) = \frac{1}{18} \left[ n(n-1)(2n+5) - \sum_{p=1}^g t_p(t_p-1)(2t_p+5) \right]$$

where g is the quantity of tied groups and t<sub>p</sub> is the quantity of data in the p<sup>th</sup> group

Note: If a result was nondetect, then half of the detection limit was used.

**Color Key:**

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- Changed via spot check based upon Table 3-6\_3-8 2013 GW Results\_validated

Appendix I - Mann-Kendall Statistical Analyses  
 April 2025 and May 2025  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

**DGC-3I**

Date	PCE µg/l	PCE signs	TCE µg/l	TCE signs	cis-1,2-DCE µg/l	cis-1,2-DCE signs
May 2008	1		5		5.0	
April 2009	1	0	5	0	5.0	0
December 2010	5	2	5	0	5	0
May 2011	5	2	1	-3	2	-3
December 2012	5	2	1	-3	3.0	-2
May 2013	11	5	4	-1	10	5
April 2014	23	6	6	6	21	6
April 2015	3	-3	5	2	2	-6
May 2016	3	-3	1	-6	3	-3
May 2017	1.8	-5	5	3	2.5	-5
May 2018	4.7	0	0.8	-10	1.9	-10
August 2019	0.5	-11	0.5	-11	0.5	-11
September 2020	0.36	-12	0.2	-12	2.5	-3
June 2021	1.2	-5	2.5	-1	2.5	-3
December 2022	0.095	-14	0.095	-14	0.075	-14
August 2023	0.52	-9	0.5	-10	0.5	-12
April/ May 2025	1.20	-3	1.80	0	0.23	-14
<b>S</b>		-48		-60		-75
<b>count (n)</b>		17		17		17
<b>g</b>		0		2		2
<b>t<sub>1</sub></b>		0		3		3
<b>t<sub>2</sub></b>		0		2		2
<b>t<sub>3</sub></b>		0		0		0
<b>VAR(S) :</b>		589.33		584.67		584.67
<b>Z</b>		1.94		2.44		3.06
<b>α/2(normal dist.)</b>		1.96		1.96		1.96
<b>Null hypothesis</b>		Accept		Reject		Reject
<b>Trend Analysis Result</b>		Trend does not exist		Trend exists		Trend exists
<b>Slope of Data</b>		Decreasing		Decreasing		Decreasing

**Mann-Kendall Test**

Null hypothesis: no trend currently exists. The null hypothesis is rejected if the probability value (Z) is greater than α/2 .

Sample Variance must be modified if ties are present using the equation:

$$VAR(S) = \frac{1}{18} \left[ n(n-1)(2n+5) - \sum_{p=1}^g t_p(t_p-1)(2t_p+5) \right]$$

where g is the quantity of tied groups and t<sub>p</sub> is the quantity of data in the p<sup>th</sup> group

Note: If a result was nondetect, then half of the detection limit was used.

**Color Key:**

- Nondetect - value equal to half the reporting limit
- Change in value from graphs spreadsheet
- Nondetect - value is equal to MDL (lab reported as ND at MDL even though RL is higher)
- Changed via spot check based upon Table 3-6\_3-8 2013 GW Results\_validated

Appendix I - Mann-Kendall Statistical Analyses  
 April 2025 and May 2025  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

**DGC-6I**

Date	PCE µg/l	PCE signs	TCE µg/l	TCE signs	cis-1,2-DCE µg/l	cis-1,2-DCE signs	Vinyl Chloride µg/l	Vinyl Chloride signs
December 2000	93.2		28.2		74.6		1.1	
March 2001	81.0	-1	23.0	-1	69.0	-1	3.3	1
June 2001	68.3	-2	17.6	-2	54.6	-2	2.1	0
October 2001	55.8	-3	15.0	-3	41.6	-3	4.5	3
December 2001	63.2	-2	19	0	53.5	-2	1.2	-2
March 2002	49.7	-5	14.9	-5	43.7	-3	1	-5
June 2002	47	-6	12.2	-6	36.3	-6	1	-6
September 2002	53.1	-3	19.0	3	49.5	-1	1	-6
December 2002	59.9	0	15.5	-2	43.4	-4	1	-4
March 2003	32.1	-9	8.7	-9	32.0	-9	2	3
June 2003	32.9	-8	8.6	-10	28.6	-10	1	2
September 2003	25.8	-11	7	-11	26.4	-11	1	-4
December 2003	21.7	-12	6.4	-12	23.2	-12	1.1	-2
March 2004	17.3	-13	4.9	-13	19.3	-13	1	-9
June 2004	20.0	-12	5.8	-12	20.4	-12	1	-10
September 2004	16.9	-15	5.2	-13	19.5	-13	1	-9
December 2004	21.5	-10	5.8	-12	19.6	-12	1	-12
March 2005	17.0	-15	5.0	-15	19.2	-17	0.9	-7
June 2005	14.4	-18	4.0	-18	17.9	-18	0.5	-16
September 2005	20	-9	6	-7	19.8	-9	0.5	-16
December 2005	16.4	-18	4.8	-18	20.5	-6	0.9	-5
May 2008	12	-21	5	-14	10.0	-21	2	15
April 2009	16	-18	9	4	10.0	-21	5	22
December 2010	19	-9	9	4	27	1	5	22
May 2011	16	-19	7	-4	30	4	5	22
December 2012	13	-23	7	-4	45.0	15	5	22
May 2013	11	-26	5	-18	32.0	5	5	22
April 2014	10	-27	6	-9	39.0	9	5	22
April 2015	8	-28	4	-27	19.0	-22	5	22
May 2016	10	-26	4	-27	18.0	-23	5	22
May 2017	12.1	-20	4.2	-24	11.9	-26	5	22
May 2018	10	-27	4.1	-25	10.0	-29	0.5	-27
August 2019	7.4	-32	2.8	-32	11	-26	1	-8
September 2020	5.2	-33	1.5	-33	6.2	-33	2.5	11
June 2021	4.8	-34	1.60	-32	4.7	-34	2.5	11
August 2023	3.4	-35	1.40	-35	3.7	-35	1	-10
April/ May 2025	2.4	-36	1.40	-35	3.7	-35	0.2	-36
<b>S</b>		-586		-477		-435		50
<b>count (n)</b>		37		37		37		37
<b>g</b>		0		0		0		0
<b>t<sub>1</sub></b>		0		0		0		0
<b>t<sub>2</sub></b>		0		0		0		0
<b>t<sub>3</sub></b>		0		0		0		0
<b>VAR(S) :</b>		5846		5846		5846.000		5846.000
<b>Z</b>		7.651		6.226		5.676		0.641
<b>α/2(normal dist.)</b>		1.960		1.960		1.960		1.960
<b>Null hypothesis</b>		Reject		Reject		Reject		Accept
<b>Trend Analysis Result</b>		Trend exists		Trend exists		Trend exists		Trend does not exist
<b>Slope of Data</b>		Decreasing		Decreasing		Decreasing		Increasing

**Mann-Kendall Test**

Null hypothesis: no trend currently exists. The null hypothesis is rejected if the probability value (Z) is greater than α/2 .

Sample Variance must be modified if ties are present using the equation:

$$VAR(S) = \frac{1}{18} \left[ n(n-1)(2n+5) - \sum_{p=1}^g t_p(t_p-1)(2t_p+5) \right]$$

where g is the quantity of tied groups and t<sub>p</sub> is the quantity of data in the p<sup>th</sup> group

Note: If a result was nondetect, then half of the detection limit was used.

Note: sample not collected in December 2022 due to fallen tree

Color Key:

- Nondetect - value equal to half the reporting limit
- Change in value from graphs spreadsheet
- Nondetect - value is equal to MDL (lab reported as ND at MDL even though RL is higher)

Appendix I - Mann-Kendall Statistical Analyses  
 April 2025 and May 2025  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

**DGC-71**

Date	PCE µg/l	PCE signs	TCE µg/l	TCE signs	cis-1,2-DCE µg/l	cis-1,2-DCE signs	Vinyl Chloride µg/l	Vinyl Chloride signs
December 2000	0.9		1.9		104.0		0.9	
March 2001	2.2	1	1.4	-1	128.0	1	1.6	1
June 2001	0.5	-2	1.0	-2	80.1	-2	0.9	-1
October 2001	1.1	1	2.5	3	120.0	1	1.3	1
December 2001	1.4	2	3	4	138.0	4	1.9	4
March 2002	1.9	3	2.0	1	74.6	-5	1	-1
June 2002	4	6	3.4	6	74.6	-5	1	0
September 2002	3.2	5	2.7	3	81.0	-1	1	-1
December 2002	2.1	2	1.9	-4	89.5	0	1	-8
March 2003	0.9	-7	1.5	-5	61.8	-9	1	-1
June 2003	1.0	-4	1.5	-4	79.3	-4	0	-10
September 2003	1.4	1	2	-3	97.3	3	1	6
December 2003	1.1	-2	1.9	-1	91.4	2	1.8	10
March 2004	1.1	-3	1.5	-5	88.7	-1	1	-5
June 2004	1.2	0	1.6	-4	76.2	-8	1	-1
September 2004	1.3	1	1.8	-1	99.1	7	1	1
December 2004	1.3	2	1.8	-2	122.0	12	1	5
March 2005	1.1	-8	1.4	-14	65.0	-15	0.5	-15
June 2005	1.3	2	1.3	-16	77.0	-8	0.5	-15
September 2005	1	-9	1	-16	87.3	-1	1.2	5
December 2005	1.4	7	1.9	9	116.0	12	2.1	20
May 2008	3	17	2	11	49.0	-21	5	21
April 2009	3	17	1	-21	49.0	-21	5	21
December 2010	3	17	2	12	77	-8	1	-5
May 2011	3	17	3	22	97	8	5	22
December 2012	5	25	1	-23	77.0	-9	2	17
May 2013	5	25	1	-23	30.0	-26	5	23
April 2014	5	25	1	-23	72.0	-17	5	23
April 2015	5	25	5	28	75.0	-12	1	-9
May 2016	5	25	5	28	62.0	-21	5	24
May 2017	1.3	-7	1.1	-20	60.8	-24	1.1	-6
May 2018	1.1	-20	1.3	-17	62.0	-20	1	-11
August 2019	0.5	-31	0.5	-32	25	-32	1	-11
September 2020	0.39	-33	0.25	-33	16	-33	2.5	21
June 2021	2.5	12	2.5	21	18.0	-32	2.5	21
December 2022	0.095	-35	0.56	-31	55.0	-23	0.105	-35
April/ May 2025	0.63	-28	0.65	-30	27.00	-30	0.31	-32
<b>S</b>		77		-153		-308		111
<b>count (n)</b>		36		36		36		36
<b>g</b>		0		0		0		0
<b>t<sub>1</sub></b>		0		0		0		0
<b>t<sub>2</sub></b>		0		0		0		0
<b>t<sub>3</sub></b>		0		0		0		0
<b>VAR(S) :</b>		5390		5390		5390.000		5390.000
<b>Z</b>		1.035		2.070		4.182		1.498
<b>α/2(normal dist.)</b>		1.960		1.960		1.960		1.960
<b>Null hypothesis</b>		Accept		Reject		Reject		Accept
<b>Trend Analysis Result</b>		Trend does not exist		Trend exists		Trend exists		Trend does not exist
<b>Slope of Data</b>		Increasing		Decreasing		Decreasing		Increasing

**Mann-Kendall Test**

Null hypothesis: no trend currently exists. The null hypothesis is rejected if the probability value (Z) is greater than α/2 .

Sample Variance must be modified if ties are present using the equation:

$$VAR(S) = \frac{1}{18} \left[ n(n-1)(2n+5) - \sum_{p=1}^g t_p(t_p-1)(2t_p+5) \right]$$

where g is the quantity of tied groups and t<sub>p</sub> is the quantity of data in the p<sup>th</sup> group

Note: If a result was nondetect, then half of the detection limit was used.

**Color Key:**

- Nondetect - value equal to half the reporting limit
- Change in value from graphs spreadsheet
- Nondetect - value is equal to MDL (lab reported as ND at MDL even though RL is higher)

Appendix I - Mann-Kendall Statistical Analyses  
 April 2025 and May 2025  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

DGC-8I				
Date	PCE µg/l	PCE signs	TCE µg/l	TCE signs
May 2008	6		3	
April 2009	2	-1	1	-1
December 2010	5	0	5	2
May 2011	4	-1	1	-2
December 2012	2	-3	5	3
May 2013	5	2	5	3
April 2014	5	2	5	3
April 2015	5	2	5	3
May 2016	2	-6	5	3
May 2017	1.2	-9	5	3
August 2019	0.5	-10	0.5	-10
September 2020	2.5	-1	2.5	-5
June 2021	2.1	-2	0.34	-12
December 2022	1.5	-9	0.095	-13
August 2023	0.74	-12	0.5	-9
April/ May 2025	0.76	-11	0.2	-13
<b>S</b>		-59		-45
<b>count (n)</b>		16		16
<b>g</b>		0		2
<b>t<sub>1</sub></b>		0		3
<b>t<sub>2</sub></b>		0		2
<b>t<sub>3</sub></b>		0		0
<b>VAR(S) :</b>		493.33		488.67
<b>Z</b>		2.61		1.99
<b>α/2(normal dist.)</b>		1.96		1.96
<b>Null hypothesis</b>		Reject		Reject
<b>Trend Analysis Result</b>		Trend exists		Trend exists
<b>Slope of Data</b>		Decreasing		Decreasing

**Mann-Kendall Test**

Null hypothesis: no trend currently exists. The null hypothesis is rejected if the probability value (Z) is greater than α/2 .

Sample Variance must be modified if ties are present using the equation:

$$VAR (S) = \frac{1}{18} \left[ n(n-1)(2n+5) - \sum_{p=1}^g t_p(t_p-1)(2t_p+5) \right]$$

Note: If a result was nondetect, then half of the detection limit was used.

**Color Key:**

- Nondetect - value equal to half the reporting limit
- Change in value from graphs spreadsheet
- Nondetect - value is equal to MDL (lab reported as ND at MDL even though RL is higher)
- Changed via spot check based upon Table 3-6\_3-8 2013 GW Results\_validated

Appendix I - Mann-Kendall Statistical Analyses  
 April 2025 and May 2025  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

**DGC-9I**

Date	PCE µg/l	PCE signs	TCE µg/l	TCE signs	cis-1,2-DCE µg/l	cis-1,2-DCE signs	Vinyl Chloride µg/l	Vinyl Chloride signs
December 2000	2.5		1.1		2.0		1.1	
March 2001	14.0	1	8.4	1	36.0	1	6.1	1
June 2001	2.1	-2	0.9	-2	2.0	-1	0.9	-2
October 2001	7.8	1	4.6	1	18.8	1	5.3	1
December 2001	1.3	-4	1	-4	2.8	0	0.9	-3
March 2002	3.6	1	1.6	1	7.9	1	4	1
June 2002	19	6	12.5	6	49.5	6	5	2
September 2002	1.8	-5	0.8	-5	2.6	-3	1	-7
December 2002	2.3	-2	1.0	-2	2.7	-2	1	0
March 2003	0.9	-9	0.4	-9	1.0	-9	1	-3
June 2003	3.2	2	2.8	4	11.9	4	2	2
September 2003	16.8	9	10	9	33.6	7	1	-5
December 2003	10.9	6	8.7	8	30.4	6	2.0	2
March 2004	1.1	-11	0.5	-11	2.1	-7	1	-5
June 2004	10.5	6	8.9	10	37.4	12	3	6
September 2004	1.2	-11	0.9	-5	2.3	-7	1	-11
December 2004	4.7	4	4.5	4	18.3	4	2	4
March 2005	4.7	3	4.8	7	20.8	7	3.2	9
June 2005	1.3	-11	0.8	-10	2.5	-8	0.6	-18
September 2005	18	17	1	-17	19.8	7	0.5	-19
December 2005	2.5	-3	2.2	2	8.1	0	2.1	4
December 2010	3	-1	1	-3	5	-3	5	17
May 2011	12	14	6	12	27	12	5	17
December 2012	6	7	5	11	38.0	21	5	17
May 2013	3	-3	3	4	13.0	2	5	17
April 2014	4	3	4	5	14.0	3	5	17
April 2015	3	-4	4	5	7.0	-6	5	17
May 2016	2	-15	5	14	2.5	-16	5	17
May 2017	1.8	-17	1.2	-6	3.1	-8	5	17
May 2018	6.3	13	5.4	17	60	29	0.3	-29
August 2019	3.1	0	3.5	2	49	26	1	-11
September 2020	0.27	-31	2.6	-3	21	13	2.5	3
June 2021	0.49	-30	0.47	-30	4.4	-10	2.5	3
December 2022	4	8	3.6	5	24	15	0.105	-33
April/ May 2025	2.9	-6	1.6	-7	8.9	-2	0.20	-32
<b>S</b>		-64		14		95		-4
<b>Count(n)</b>		35		35		35		35
<b>g</b>		0		0		0		0
<b>t<sub>1</sub></b>		0		0		0		0
<b>t<sub>2</sub></b>		0		0		0		0
<b>t<sub>3</sub></b>		0		0		0		0
<b>VAR(S) :</b>		#REF!		#REF!		#REF!		#REF!
<b>Z</b>		#REF!		#REF!		#REF!		#REF!
<b>α/2(normal dist.)</b>		1.960		1.960		1.960		1.960
<b>Null hypothesis</b>		#REF!		#REF!		#REF!		#REF!
<b>Trend Analysis Result</b>		#REF!		#REF!		#REF!		#REF!
<b>Slope of Data</b>		Decreasing		Increasing		Increasing		Decreasing

**Mann-Kendall Test**

Null hypothesis: no trend currently exists. The null hypothesis is rejected if the probability value (Z) is greater than α/2 .

Sample Variance must be modified if ties are present using the equation:

$$VAR(S) = \frac{1}{18} \left[ n(n-1)(2n+5) - \sum_{p=1}^g t_p(t_p-1)(2t_p+5) \right]$$

where g is the quantity of tied groups and t<sub>p</sub> is the quantity of data in the p<sup>th</sup> group

Note: If a result was nondetect, then half of the detection limit was used.

**Color Key:**

- Nondetect - value equal to half the reporting limit
- Change in value from graphs spreadsheet
- Nondetect - value is equal to MDL (lab reported as ND at MDL even though RL is higher)
- Changed via spot check based upon Table 3-6\_3-8 2013 GW Results\_validated

Appendix I - Mann-Kendall Statistical Analyses  
 April 2025 and May 2025  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

**TH-7**

Date	PCE µg/l	PCE signs	TCE µg/l	TCE signs	cis-1,2-DCE µg/l	cis-1,2-DCE signs	Vinyl Chloride µg/l	Vinyl Chloride signs
December 2000	77.6		19.0		0.6		121.0	
March 2001	158.0	1	54.0	1	448.0	1	36.0	-1
June 2001	269.0	2	70.2	2	454.0	2	33.0	-2
October 2001	249.0	1	47.0	-1	288.0	-1	55.6	1
December 2001	285.0	4	38	-2	246.0	-2	30.6	-4
March 2002	110.0	-3	23.0	-3	159.0	-3	45	1
June 2002	193	0	43.8	0	270.0	0	46	2
September 2002	146.0	-3	22.2	-5	201.0	-3	48	3
December 2002	81.8	-6	11.6	-8	144.0	-6	126	8
March 2003	157.0	-1	22.9	-3	124.0	-7	15	-9
June 2003	201.0	4	28.5	0	124.0	-7	36	-2
September 2003	194.0	3	31	1	182.0	-1	61	7
December 2003	100.0	-8	22.4	-6	199.0	0	67.7	8
March 2004	172.0	1	32.0	3	98.7	-11	39	-3
June 2004	193.0	3	43.0	6	172.0	-2	40	-2
September 2004	97.1	-11	21.8	-11	115.0	-11	56	7
December 2004	149.0	-4	21.8	-11	88.4	-14	62	10
March 2005	203.0	11	29.0	1	82.8	-15	10.8	-17
June 2005	172.0	1	24.6	-2	81.2	-16	5.3	-18
September 2005	140	-9	19	-17	52.0	-17	5.6	-17
December 2005	81.2	-18	13.8	-18	72.6	-16	30.2	-12
May 2008	57	-21	5	-21	6.0	-19	5	-21
April 2009	16	-22	2	-22	6.0	-19	5	-21
December 2010	29	-21	4	-21	22	-17	5	-21
May 2011	36	-20	5	-19	30	-16	5	-21
December 2012	29	-22	4	-22	25.0	-17	4	-25
May 2013	21	-24	4	-22	15.0	-20	2	-26
April 2014	22	-23	5	-17	15.0	-20	5	-19
April 2015	16	-27	3	-26	13.0	-22	5	-19
May 2016	17	-25	3	-26	12.0	-23	5	-19
May 2017	5	-30	5	-15	4.5	-28	5	-19
May 2018	4.1	-31	1.2	-31	2.9	-29	0.59	-31
August 2019	8.7	-28	2.3	-28	3.0	-28	1	-30
September 2020	1.9	-33	0.8	-33	2.1	-31	2.5	-27
June 2021	7.6	-28	1.7	-30	3.40	-26	0.35	-34
December 2022	5.7	-29	1.5	-31	3.0	-28	0.22	-35
August 2023	2.0	-34	0.8	-36	1.8	-34	1	-29
April/ May 2025	0.32	-37	0.21	-37	0.96	-35	0.57	-33
<b>S</b>		-487		-510		-541		-470
<b>count (n)</b>		38		38		38		38
<b>g</b>		0		0		0		0
<b>t<sub>1</sub></b>		0		0		0		0
<b>t<sub>2</sub></b>		0		0		0		0
<b>t<sub>3</sub></b>		0		0		0		0
<b>VARS(S) :</b>		6327		6327		6327.000		6327.000
<b>Z</b>		6.110		6.399		6.789		5.896
<b>α/2(normal dist.)</b>		1.960		1.960		1.960		1.960
<b>Null hypothesis</b>		Reject		Reject		Reject		Reject
<b>Trend Analysis Result</b>		Trend exists		Trend exists		Trend exists		Trend exists
<b>Slope of Data</b>		Decreasing		Decreasing		Decreasing		Decreasing

**Mann-Kendall Test**

Null hypothesis: no trend currently exists. The null hypothesis is rejected if the probability value (Z) is greater than α/2.

Sample Variance must be modified if ties are present using the equation:

$$VAR_{VAR}(\bar{S}) = \frac{1}{18} \left[ n(n-1)(2n+5) - \sum_{p=1}^g t_p(t_p-1)(2t_p+5) \right]$$

where g is the quantity of tied groups and t<sub>p</sub> is the quantity of data in the p<sup>th</sup> group

Note: If a result was nondetect, then half of the detection limit was used.

**Color Key:**

- Nondetect - value equal to half the reporting limit
- Change in value from graphs spreadsheet

GMS-02		
Date	PCE µg/l	PCE signs
April 2009	5	
December 2010	5	0
May 2011	6	2
December 2012	4	-3
May 2013	3	-4
April 2014	4	-2
April 2015	3	-5
May 2016	5	3
May 2017	5	3
August 2019	2.3	-9
September 2020	2.3	-9
June 2021	1.8	-11
December 2022	1.8	-11
April/ May 2025		
<b>S</b>		-46
<b>count (n)</b>		13
<b>g</b>		0
<b>t<sub>1</sub></b>		0
<b>t<sub>2</sub></b>		0
<b>t<sub>3</sub></b>		0
<b>VAR(S) :</b>		268.67
<b>Z</b>		2.75
<b>α/2(normal dist.)</b>		1.96
<b>Null hypothesis</b>		Reject
<b>Trend Analysis Result</b>		Trend exists
<b>Slope of Data</b>		Decreasing

\*\*figure out which well this is.

**Mann-Kendall Test**

Null hypothesis: no trend currently exists. The null hypothesis is rejected if the probability value (Z) is greater than a/2 .

Sample Variance must be modified if ties are present using the equation:

$$VAR (S) = \frac{1}{18} \left[ n(n-1)(2n+5) - \sum_{p=1}^g t_p(t_p-1)(2t_p+5) \right]$$

where g is the quantity of tied groups and t<sub>p</sub> is the quantity of data in the p<sup>th</sup> group

Note: If a result was nondetect, then half of the detection limit was used.

**Color Key:**

- Nondetect - value equal to half the reporting limit
- Change in value from graphs spreadsheet
- Nondetect - value is equal to MDL (lab reported as ND at MDL even though RL is higher)
- Changed via spot check based upon Table 3-6\_3-8 2013 GW Results\_validated

Appendix I - Mann-Kendall Statistical Analyses  
 April 2025 and May 2025  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

**ERT-EW-5**

Date	PCE µg/l	PCE signs	TCE µg/l	TCE signs	cis-1,2-DCE µg/l	cis-1,2-DCE signs	Vinyl Chloride µg/l	Vinyl Chloride signs
May 2008	750		5		5.0		1	
April 2009	610	-1	3	-1	5.0	0	9	1
December 2010	200	-2	28	2	5.0	0	120	2
May 2011	920	3	5	0	5.0	0	2	-1
December 2012	470	-2	3	-3	5.0	0	3	0
April 2014	770	3	9	3	46.0	5	9	2
April 2015	730	0	4	-2	30.0	4	8	0
May 2016	750	2	4	-2	31.0	5	2	-4
May 2017	573	-4	2	-8	19.0	2	5	0
May 2018	540	-5	2.5	-7	26.0	3	5.60	1
August 2019	730	1	0.0	-10	40.0	8	0.03	-10
September 2020	690	-1	21.0	9	90.0	11	0.03	-10
June 2021	520	-8	1.9	-10	48.0	10	18	10
December 2022	3000	13	42	13	78.0	11	8.3	5
August 2023	59	-14	16	8	180.0	14	11	10
April/ May 2025	860	11	13	7	13.0	-5	1.0	-10
<b>S</b>		-4		-1		68		-4
<b>count (n)</b>		16		16		16		16
<b>g</b>		0		0		0		0
<b>t<sub>1</sub></b>		0		0		0		0
<b>t<sub>2</sub></b>		0		0		0		0
<b>t<sub>3</sub></b>		0		0		0		0
<b>VAR(S) :</b>		493		493		493.333		493.333
<b>Z</b>		0.135		0.000		3.017		0.135
<b>α/2(normal dist.)</b>		1.960		1.960		1.960		1.960
<b>Null hypothesis</b>		Accept		Accept		Reject		Accept
<b>Trend Analysis Result</b>		Trend does not exist		Trend does not exist		Trend exists		Trend does not exist
<b>Slope of Data</b>		Decreasing		Decreasing		Increasing		Decreasing

**Mann-Kendall Test**

Null hypothesis: no trend currently exists. The null hypothesis is rejected if the probability value (Z) is greater than  $\alpha/2$ .

Sample Variance must be modified if ties are present using the equation:

where  $g$  is the quantity of tied groups and  $t_p$  is the quantity of data in the  $p$ th group

Note: If a result was nondetect, then half of the detection limit was used.

**Color Key:**

- Nondetect - value equal to half the reporting limit
- Change in value from graphs spreadsheet
- Nondetect - value is equal to MDL (lab reported as ND at MDL even though RL is higher)
- Changed via spot check based upon Table 3-6\_3-8 2013 GW Results\_validated

Appendix I - Mann-Kendall Statistical Analyses  
 April 2025 and May 2025  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

**ERT-EW-6**

Date	PCE µg/l	PCE signs	TCE µg/l	TCE signs	cis-1,2-DCE µg/l	cis-1,2-DCE signs	Vinyl Chloride µg/l	Vinyl Chloride signs
May 2008	260		14		5.0		12	
April 2009	37	-1	12	-1	5.0	0	74	1
December 2010	200	0	28	2	5.0	0	120	2
May 2011	19	-3	67	3	5.0	0	120	2
December 2012	10	-4	1	-4	5.0	0	81	0
April 2014	43	1	0	-5	10.0	5	0	-5
April 2015	18	-4	1	-3	4.0	-6	0	-5
May 2016	44	3	1	-3	6.0	5	0	-5
May 2017	23	-2	1	-3	5.0	-1	0	-5
May 2018	20.0	-3	0.86	-7	4.4	-7	0	-5
August 2019	240.0	8	0.0	-9	7.2	8	0.03	-5
September 2020	52.0	5	4.0	3	44.0	11	0.03	-5
June 2021	350	12	0.88	-6	7.4	8	0.37	2
December 2022	64	5	3.9	3	35.0	11	0.105	1
August 2023	32	-4	0.79	-10	2.4	-14	1	4
April/ May 2025	120	7	1.9	3	4.6	-9	0.8	3
<b>S</b>		20		-37		11		-20
<b>count (n)</b>		16		16		16		16
<b>g</b>		0		0		0		0
<b>t<sub>1</sub></b>		0		0		0		0
<b>t<sub>2</sub></b>		0		0		0		0
<b>t<sub>3</sub></b>		0		0		0		0
<b>VAR(S) :</b>		493		493		493.333		493.333
<b>Z</b>		0.855		1.621		0.450		0.855
<b>α/2(normal dist.)</b>		1.960		1.960		1.960		1.960
<b>Null hypothesis</b>		Accept		Accept		Accept		Accept
<b>Trend Analysis Result</b>		Trend does not exist		Trend does not exist		Trend does not exist		Trend does not exist
<b>Slope of Data</b>		Increasing		Decreasing		Increasing		Decreasing

**Mann-Kendall Test**

Null hypothesis: no trend currently exists. The null hypothesis is rejected if the probability value (Z) is greater than α/2 .

Sample Variance must be modified if ties are present using the equation:

$$VAR (S) = \frac{1}{18} \left[ n(n-1)(2n+5) - \sum_{p=1}^g t_p(t_p-1)(2t_p+5) \right]$$

where g is the quantity of tied groups and t<sub>p</sub> is the quantity of data in the p<sup>th</sup> group

Note: If a result was nondetect, then half of the detection limit was used.

**Color Key:**

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Appendix I - Mann-Kendall Statistical Analyses  
 April 2025 and May 2025  
 Periodic Review Report 2024  
 Brewster Village Well Field - Site 3-40-012

**ERT-EW-7**

Date	PCE µg/l	PCE signs	TCE µg/l	TCE signs	cis-1,2-DCE µg/l	cis-1,2-DCE signs	Vinyl Chloride µg/l	Vinyl Chloride signs
May 2008	24		2		5.0		5	
April 2009	51	1	6	1	5.0	0	5	0
December 2010	87	2	13	2	5.0	0	1	-2
May 2011	51	0	7	1	5.0	0	5	1
December 2012	57	2	7	1	5.0	0	2	-2
May-13	84	3	9	3	36.0	5	3	-1
April 2014	64	2	12	4	34.0	4	3	-1
April 2015	47	-5	11	3	19.0	3	2	-4
May 2016	42	-6	11	3	5.0	-3	0	-8
May 2017	36	-7	9	0	13.0	3	0	-8
May 2018	34.0	-8	9.7	2	16.0	4	0.26	-6
August 2019	38.0	-5	6.1	-7	10.0	1	0.03	-9
September 2020	630.0	12	14.0	12	56.0	12	3.80	6
June 2021	32	-11	3.6	-11	15.0	3	0.32	-5
December 2022	6.4	-14	1.9	-14	3.2	-14	0.105	-8
August 2023	27	-11	4	-9	8.4	-1	1	-2
April/ May 2025	100	14	1.8	-16	4.9	-14	0.61	-4
<b>S</b>		-31		-25		3		-53
<b>count (n)</b>		17		17		17		17
<b>g</b>		0		0		0		0
<b>t<sub>1</sub></b>		0		0		0		0
<b>t<sub>2</sub></b>		0		0		0		0
<b>t<sub>3</sub></b>		0		0		0		0
<b>VAR(S) :</b>		589		589		589.333		589.333
<b>Z</b>		1.236		0.989		0.082		2.142
<b>α/2(normal dist.)</b>		1.960		1.960		1.960		1.960
<b>Null hypothesis</b>		Accept		Accept		Accept		Reject
<b>Trend Analysis Result</b>		Trend does not exist		Trend does not exist		Trend does not exist		Trend exists
<b>Slope of Data</b>		Decreasing		Decreasing		Increasing		Decreasing

**Mann-Kendall Test**

Null hypothesis: no trend currently exists. The null hypothesis is rejected if the probability value (Z) is greater than α/2 .

Sample Variance must be modified if ties are present using the equation:

$$VAR (S) = \frac{1}{18} \left[ n(n-1)(2n+5) - \sum_{p=1}^g t_p(t_p-1)(2t_p+5) \right]$$

where g is the quantity of tied groups and t<sub>p</sub> is the quantity of data in the p<sup>th</sup> group

Note: If a result was nondetect, then half of the detection limit was used.

**Color Key:**

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