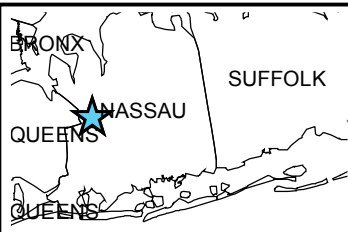




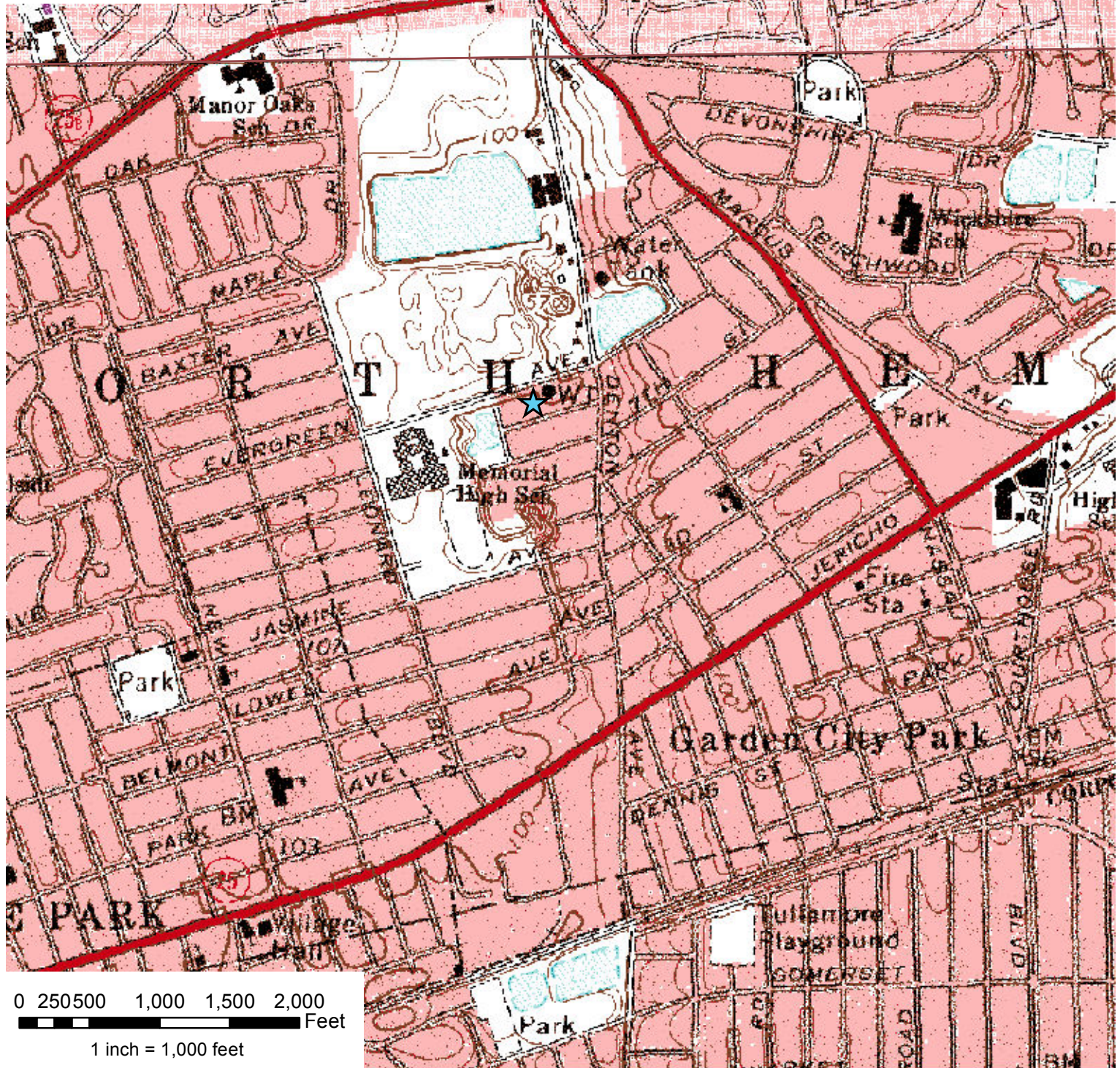
SITE INVESTIGATION INFORMATION

1. SITE NAME Zoe Chemical Co.		2. SITE NUMBER 130211	3. CITY/VILLAGE New Hyde Park	4. COUNTY Nassau
5. REGION 1	6. BCP <input type="checkbox"/> ERP <input type="checkbox"/> SPILL <input type="checkbox"/> SUPERFUND <input type="checkbox"/> If Superfund: Current <input type="checkbox"/> Proposed <input checked="" type="checkbox"/> Modification			
7. LOCATION OF SITE a. Quadrangle Lynbrook (Figure 1) b. Site Latitude <u>40° 44' 35.9"</u> Site Longitude <u>-73° 40' 23.7"</u> c. Tax Map Numbers 8-189-1 to 12 & 42 to 73 d. Site Street Address 1801 Falmouth Avenue, New Hyde Park, Nassau County, New York				
8. BRIEFLY DESCRIBE THE SITE The site consists of a one-story masonry structure built in 1962 that covers 44,800 square feet of the western portion of the site (Figure 2, Table 1). The site is zoned commercial and presently being utilized by Pro Build as a lumber yard. The eastern portion of the site is presently paved and used for lumber storage. Previous operations were performed by Zoe Chemical Co. and CDC Products Corp., which handled chemicals (1,1,1-trichloroethane [TCA], ammonia, tetrachloroethene, cleaners, etc...) as part of processes on-site as indicated in the EPA Toxics Release Inventory and Nassau County Department of Health (NCDOH) records. Chemicals were stored inside the building according to NCDOH records as well as within the paved area according to Sanborn maps from 1969 and 1980 (Figure 3 and 4). The site is located in a mixed use area (Figure 5). A production well field for the Water Authority of Western Nassau County borders the site to the north as do athletic fields for the Memorial High School, which is located 500 feet to the west. The site is bounded by Falmouth Avenue to the south and Gould Street to the west. A recharge basin is located approximately 40 feet west of the site. a. Area <u>2.02</u> acres b. Completed: () Financial Assessment () PSA () IRM () RI/FS () Construction () O&M () Other:				
9. HAZARDOUS WASTE DISPOSED (Include EPA Hazardous Waste Numbers) 1,1,1 trichloroethane (F002) and degradation products were detected in groundwater and soil vapor.				
10. ANALYTICAL DATA AVAILABLE (X)Air (X)Groundwater ()Surface Water ()Sediment (X)Soil ()Waste ()Leachate ()EPTox ()TCLP <u>Contravention of Standards or Guidance Values:</u> Based upon data collected from a plume trackdown elevated concentrations of volatile organic compounds were detected immediately down-gradient of the site in April 2010. A summary of the detections is provided below: Soil: Field screening identified soil contamination, but laboratory analysis detected limited contamination at concentrations below unrestricted use. Groundwater: A shallow groundwater sample from 20 feet below ground surface at location GW-05A detected trichloroethene (TCE), TCA, 1,1-dichloroethane (DCA), chloroethane, toluene, and xylene at 160 micrograms per liter (ug/l), 230 ug/l, 600 ug/l, 3,400 ug/l, 1,200 ug/l, and 480 ug/l, respectively. The groundwater standard for each of these contaminants is 5 ug/l. Samples collected every 10 feet from an adjacent point, identified as GW-05, detected lower concentrations from 25 to 85 feet below ground surface. TCA is known to naturally attenuate to DCA and chloroethane. The location of the sample point GW-05 is presented on Figure 6 and analytical results are summarized on Table 2. Soil Vapor: A soil vapor sample, identified as SV-05, was collected near GW-05A and detected TCA, DCA, chloroethane, vinyl chloride, and xylene at 350 micrograms per cubic meter (ug/m ³), 330 ug/m ³ , 100,000 ug/m ³ , 1,900 ug/m ³ , and 4,400 ug/m ³ , respectively. The location of the sample point is presented on Figure 3 and analytical results are summarized on Table 3.				
11. CONCLUSION Due to the historical operations and detected contaminants immediately down-gradient of the site, further investigation is warranted. A site characterization is recommended to determine if significant contamination is present at the site and if the contamination poses a significant threat to public health and/or the environment. Full TCL/TAL sampling of soil and groundwater would be necessary due to the various chemicals used and monitoring wells are recommended to understand the hydrology as the adjacent well field and recharge basin likely influence groundwater dynamics. Sub-slab soil vapor samples are warranted to determine if a source is present beneath the building. <i>If Institutional Controls are Required: describe: If so, are they documented? Y () N ()</i>				
12. SITE DATA a. Nearest Surface Water: Distance <u>150</u> ft. Direction <u>west</u> ID & Classification <u>recharge basin</u> b. Nearest Groundwater: Depth <u>20</u> ft. Flow Direction <u>southwest</u> (X)Sole Source ()Primary ()High Yield ()Low Yield ()Non Yield c. Nearest Water Supply: Distance <u>75</u> ft. Direction <u>north</u> Active (X)Yes ()No Character: d. Nearest Building: Distance <u>15</u> ft. Direction <u>north</u> Use <u>production well field</u> e. Documented fish or wildlife mortality? ()Y (X)N h. Exposed hazardous waste? ()Y (X)N f. Impact on special status fish or wildlife resource? ()Y (X)N i. EPA ID # _____ HRS Score _____ g. Controlled Site Access? ()Y (X)N j. Site Priority Ranking Score _____				
13. SITE OWNER'S NAME Seaboard Estates Inc.		14. ADDRESS 1 Jericho Turnpike, New Hyde Park, NY 11040		15. TELEPHONE



Key Plan

1 inch = 20 miles



Source Data: Aerial - Lynbrook Quadrangle (NAD27) for 7.5 Minute Quad, rev 1976



New York State Department of Environmental Conservation

Figure 1: Site Location Map

Zoe Chemical Co.

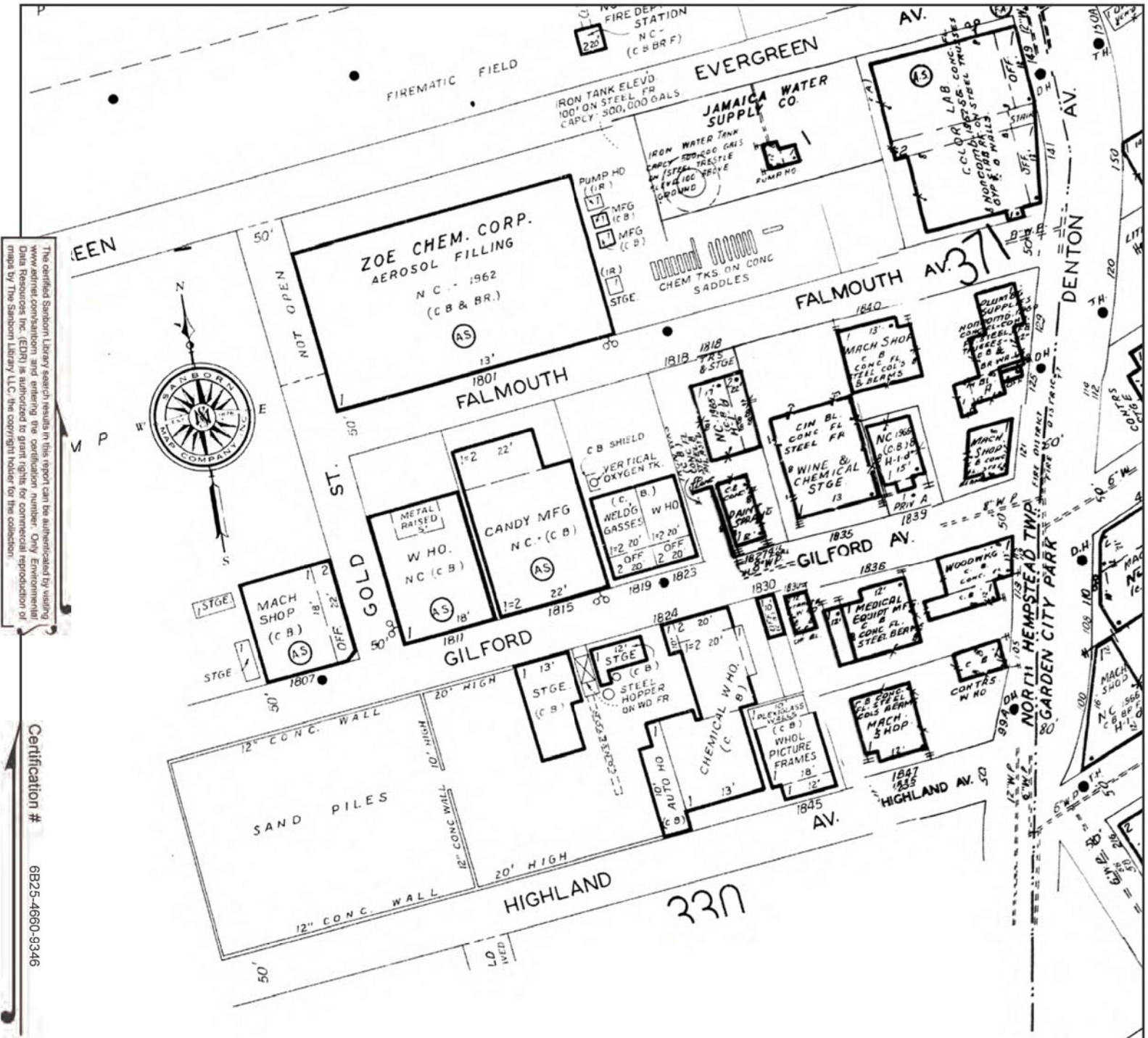
Port Washington, Nassau County, New York





Figure 2

1969 Certified Sanborn Map



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Certification # 6825-4660-9346

Site Name: Clean Street USA
 Address: 1824 Gilford Ave
 City, ST, ZIP: New Hyde Park NY 11040
 Client: MACTEC, Inc.
 EDR Inquiry: 2577769-1
 Order Date: 9/1/2009 8:52:05 AM
 Certification # 6825-4660-9346



Copyright: 1969

This Certified Sanborn Map combines the following sheets (thumbnails on page 3).

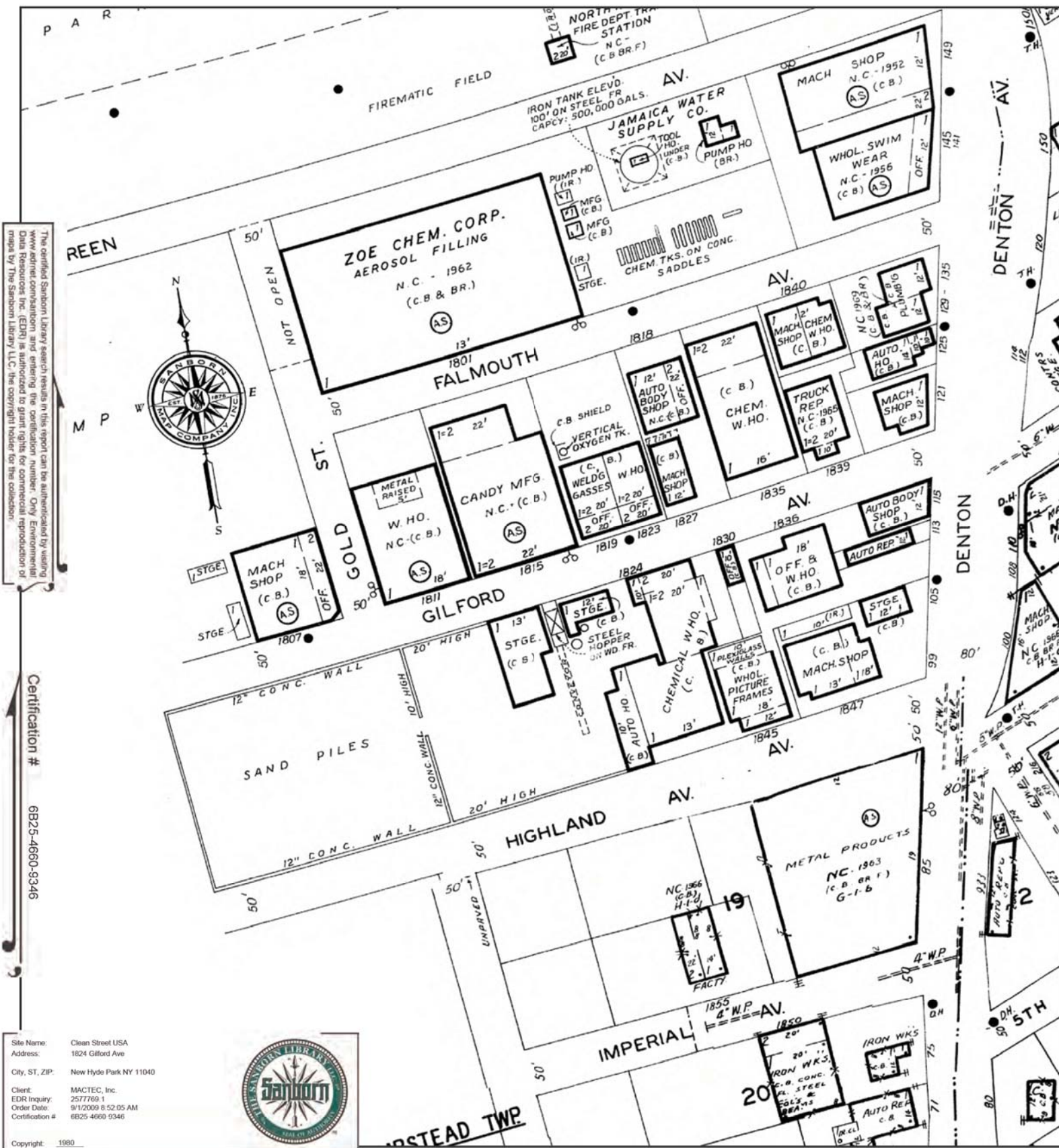


Volume 3, Sheet 330
 Volume 3, Sheet 331
 Volume 3, Sheet 371

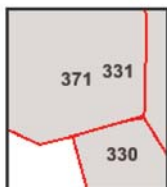
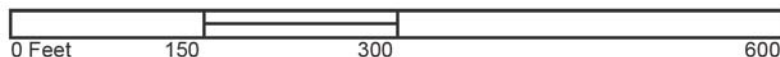


Figure 3

1980 Certified Sanborn Map

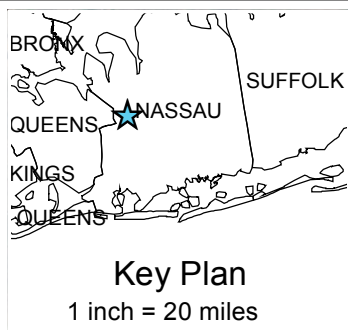


This Certified Sanborn Map combines the following sheets (thumbnails on page 3).



Volume 1, Sheet 330
Volume 1, Sheet 331
Volume 1, Sheet 371

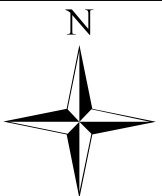
Figure 4

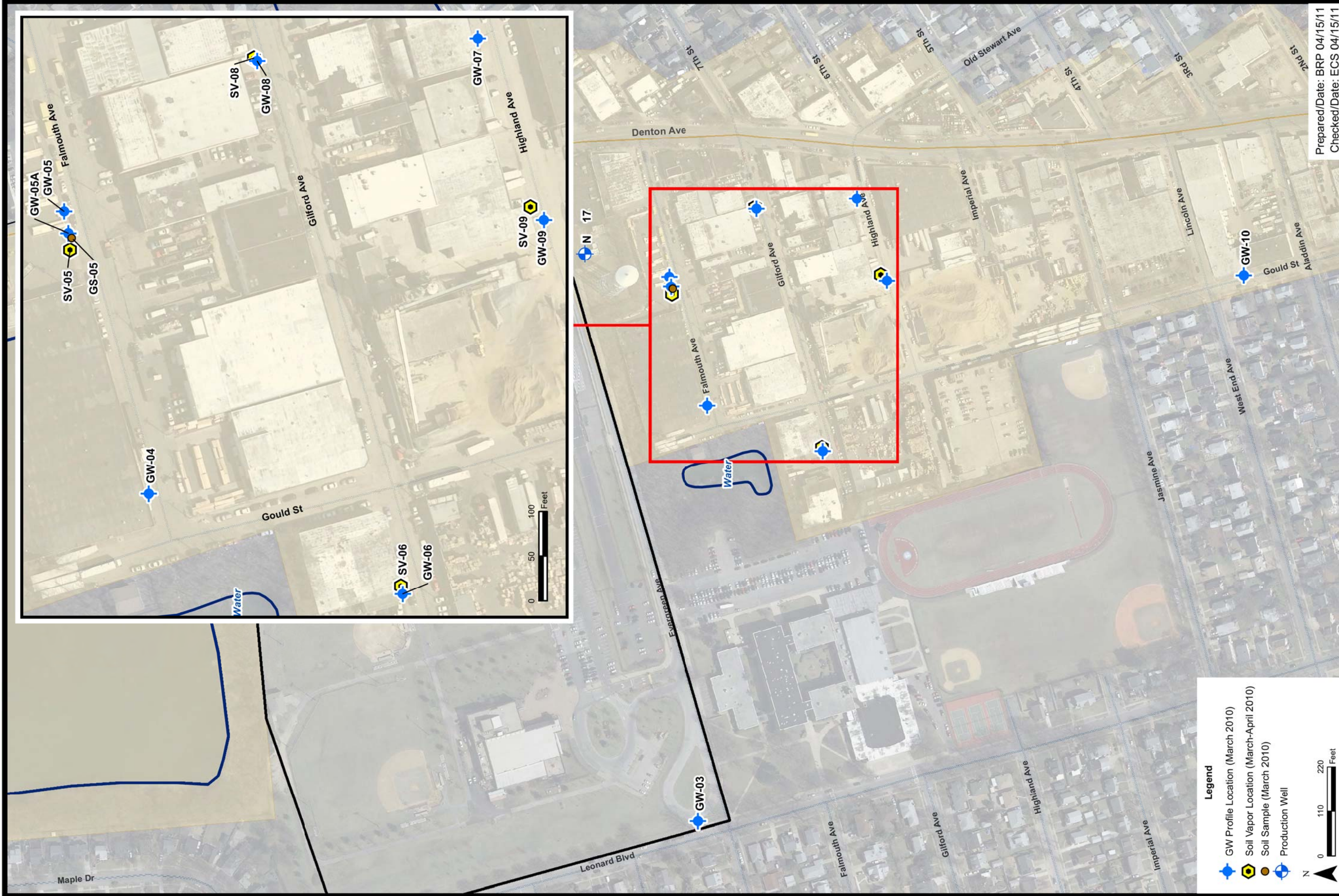


Source Data: Aerial - 2004 Color 20cm Resolution



New York State Department of Environmental Conservation
Figure 5: Site Location Plan
Zoe Chemical Co.
New Hyde Park, Nassau County, New York





Prepared/Date: BRP 04/15/11
Checked/Date: ECS 04/15/11



SC REPORT - FEBRUARY 2011
WAWNC WELL 57 STUDY - SITE 1-30-191
NEW HYDE PARK, NEW YORK

Figure 6

Table 1

Section	8	Block	189	Lot	1	Condo		Unit		Town	North Hempstead
Address	Falmouth Ave, New Hyde Park, 11040										
Village						School	New Hyde Park - Garden City Park - 5				
Roll Year	2012-2013		Liber & Page (Deed#)			00000 0000					
			Land Category			Commercial					
Property Size Code			Land Title			Other Storage, Warehouse And Distribution Facilities					
Property Class Code	449.04		Land Description								
Item Number			Other Storage, Warehouse And Distribution Facilities								
NYS School Code	282205										
NYS SWIS Code	282289		Lot Grouping			1-12,42-73					
View Property Record Cards 1938-1985											

Tax Year	2013										
Card	1										
School District	NEW HYDE PARK-GARDEN CITY PARK - 5										
Acres	2.0202										
Lot Frontage	240										
Lot Depth	100										
Lot Square Footage	88000										
Land Code	PRIMARY SITE										
Location	COMMERCIAL/INDUSTRIAL PARK										
Year Built	1962										
Building Detail											
BLD	Built	Grade	Structure	Area	SF	Stories	Floors	Units	Use		
1	1962	D	WAREHOUSE 20001-45K	44800	44800	1	01-01	0	WHSE >20K - 45,000		
Addition and Out-Building Structures											
Code		Structure					Area				
SS1		SPRINKLER SYS WET					0				

Table 2 VOCs Detected in Groundwater March 2010 Sampling event

Parameter	Location Sample ID Sample Depth (ft bgs) Qc Code	GW-04 3/15/2010 130191GW04082 82 FS	GW-04 3/15/2010 130191GW04092 92 FS	GW-04 3/15/2010 130191GW04102 102 FS	GW-04 3/15/2010 130191GW04110 110 FS	GW-05 3/16/2010 130191GW05025 25 FS	GW-05 3/16/2010 130191GW05035 35 FS	GW-05 3/16/2010 130191GW05045 45 FS	GW-05 3/16/2010 130191GW05055 55 FS
Tetrachloroethene	5	1 U	1 U	0.77 J	0.58 J	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	5.4	1.9	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	9.6	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	50*	5 U	5 U	5 U	5 U	5 U	3.3 J	5 U	5 U
Acetone	50*	5 U	5 U	5 U	5 U	100	18	5 U	5 U
Benzene	1	1 U	1 U	1 U	1 U	1.8	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	0.57 J	0.66 J	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	730 D	28	1.8	1.7
Cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1.1	1 U	1 U
Cyclohexane	NA	1 U	1 U	0.93 J	1 U	1 U	1 U	1 U	1 U
Ethyl benzene	5	1 U	1 U	1 U	1 U	5.9	1.3	1 U	1 U
Isopropylbenzene	5	1 U	1 U	1 U	1 U	2.8	0.67 J	1 U	1 U
Methyl cyclohexane	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Tertbutyl Ether	10*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	5	1 U	1 U	1 U	1 U	210 D	14	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	3.1	0.77 J	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	0.97 J	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1.4	1 U	1 U	1 U
Xylene, m/p	5	2 U	2 U	2 U	2 U	8.9	2 J	2 U	2 U
Xylene, o	5	1 U	1 U	1 U	1 U	2.5	0.54 J	1 U	1 U

Notes:

Results in microgram per liter (µg/L)
 Only detected compounds shown.
 Samples analyzed for VOCs by EPA 8260B

Qualifiers:

U = Not detected at a concentration
 greater than the reporting limit
 J = Estimated value
 D = Result was reported from a diluted
 sample run

Detections are indicated in **BOLD**

Highlighted results exceed criteria

QC Code:

FS = Field Sample
 FD = Field Duplicate
 NA = No Criteria Available
 Criteria = Class GA Groundwater guidance or
 standard values from Technical and Operational
 Guidance Series (TOGS) 1.1.1, "Ambient Water
 Quality Standards and Guidance Values and
 Groundwater Effluent Limitations (NYSEDEC 1998)
 * = Guidance Value

Table 2 : VOCs Detected in Groundwater March 2010 Sampling event

Parameter	Location Sample ID Sample Depth (ft bgs) Qc Code	GW-05 3/16/2010 130191GW05065 65 FS	GW-05 3/16/2010 130191GW05075 75 FS	GW-05 3/16/2010 130191GW05085 85 FS	GW-05A 3/16/2010 130191GW05A20 20 FS	GW-06 3/17/2010 130191GW06033 33 FS	GW-06 3/17/2010 30191GW06033DU 33 FD	GW-06 3/17/2010 130191GW06043 43 FS	GW-06 3/17/2010 130191GW06053 53 FS
Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result
Tetrachloroethene	5	1 U	1 U	1 U	16	8.9	8.5	1.1	1 U
Trichloroethene	5	1 U	1 U	1 U	160 D	2.4	2.3	0.97 J	0.59 J
1,1,1-Trichloroethane	5	1 U	1 U	1 U	230 D	2.4	1.9	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	0.95 J	600 DJ	3.3	3.2	0.82 J	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	2.1	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	50*	5 U	5 U	5 U	5 UJ	3 J	5 U	5 U	5 U
Acetone	1	1 U	1 U	1 U	4.3	1 U	1 U	1 U	1 U
Benzene	5	1 U	1 U	1 U	19	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	3400 D	1 U	1 U	0.51 J	0.89 J
Chloroethane	5	1 U	14	19	1 U	1 U	1 U	1 U	1 U
Chloroform	7	2.1	1.3	0.97 J	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethene	5	1 U	1 U	1 U	48	2.8	2.5	2.5	0.58 J
Cyclohexane	NA	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U
Ethyl benzene	5	1 U	0.68 J	0.87 J	83	1 U	1 U	1 U	1 U
Isopropylbenzene	5	1 U	1 U	0.53 J	6	1 U	1 U	1 U	1 U
Methyl cyclohexane	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Tertbutyl Ether	10*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	5	1 U	6.3	3.7	19	1 U	1 U	1 U	1 U
Toluene	5	1 U	0.55 J	0.55 J	1200 D	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	11	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	34	1 U	1 U	1.2	1 U
Xylene, m/p	5	2 U	1.1 J	1.3 J	340 D	2 U	2 U	2 U	2 U
Xylene, o	5	1 U	1 U	1 U	140 D	1 U	1 U	1 U	1 U

Notes:

Results in microgram per liter (µg/L)
 Only detected compounds shown.
 Samples analyzed for VOCs by EPA 8260B

Qualifiers:

U = Not detected at a concentration
 greater than the reporting limit
 J = Estimated value
 D = Result was reported from a diluted
 sample run

Detections are indicated in **BOLD**

Highlighted results exceed criteria

QC Code:

FS = Field Sample
 FD = Field Duplicate
 NA = No Criteria Available
 Criteria = Class GA Groundwater guidance or
 standard values from Technical and Operational
 Guidance Series (TOGS) 1.1.1, "Ambient Water
 Quality Standards and Guidance Values and
 Groundwater Effluent Limitations (NYSDCE 1998)
 * = Guidance Value

Table 3 : 2010 Soil Vapor Results

Location Sample Date Sample ID Qc Code Parameter	SV-01 4/7/2010 130191SV01 FS Result Qualifier	SV-02 3/12/2010 130191SV02 FS Result Qualifier	SV-05 3/19/2010 130191SV05 FS Result Qualifier	SV-06 3/19/2010 130191SV06 FS Result Qualifier	SV-08 3/19/2010 130191SV08 FS Result Qualifier
Tetrachloroethene	100	7.5	17	5200 D	2800 D
Trichloroethene	63	2	24	1100	1800 D
1,1,1-Trichloroethane	1.9	0.55 U	350	1500	50
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.44 J	0.77 U	7.7 U	7.7 U	0.77 U
1,1-Dichloroethane	0.4 U	0.4 U	330	52	0.4
1,1-Dichloroethene	0.4 U	0.4 U	78	1.6 J	0.21 J
1,2,4-Trimethylbenzene	0.49 U	3.2	3700	79	26
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.7 U	0.7 U	150 J	7 UJ	0.35 J
1,3,5-Trimethylbenzene	0.49 U	1.4	1700	29	11
1,3-Butadiene	0.22 U	0.44 U	2.2 U	2.2 U	0.22 U
2-Butanone	0.31 U	3.9 UJ	27	2.9 U	2.5 J
2-Hexanone	0.41 U	0.41 U	4.1 U	4.1 U	0.69
2-Propanol	0.49 U	0.79 U	1500 J	9.6 J	0.6
4-Ethyltoluene	0.49 U	1.4	620	15	5.3
4-Methyl-2-pentanone	0.41 U	0.41 U	4.1 U	4.1 U	0.35 J
Acetone	2 J	23 U	2900 DJ	2.4 UJ	24 U
Benzene	0.2 J	14	980	1.9 J	8
Bromodichloromethane	0.67 U	0.67 U	6.7 U	6.7 U	0.67 U
Carbon disulfide	0.36	5.4	140	2.1 J	1.6
Carbon tetrachloride	0.63 U	0.63 U	6.3 U	6.3 U	0.63 U
Chloroethane	0.26 U	0.26 U	100000 DJ	3.6	0.26 U
Chloroform	0.63	0.49 U	4.9 U	6.9	3.1
Chloromethane	0.21 U	0.21 U	10	2.1 U	0.21 U
Cis-1,2-Dichloroethene	0.4 U	0.4 U	100	4	300
Cyclohexane	0.34 U	5.1	2000 D	3.4 U	2.4
Dichlorodifluoromethane	1.7	2.4	21	14	2.5
Ethanol	1.9 UJ	2.1	110 J	19 UJ	7.6 J
Ethyl acetate	0.36 U	0.36 U	3.6 U	3.6 U	0.36 U
Ethyl benzene	0.43 U	4.5	2300	12	3.5
Heptane	0.41 U	26	1200	4.1 U	1.4
Hexane	0.2 J	13	1900	3.5 U	1.1 J
Methyl Tertbutyl Ether	0.14 J	0.58	16	3.6 U	0.21 J
Methylene chloride	1.4 U	1.4 UJ	100	14 U	1.4 U
Propylene	0.35 J	0.69 UJ	1300 D	6.9 U	1.7 J
Styrene	0.43 U	0.43 U	4.3 U	4.3 U	0.43 U
Tetrahydrofuran	0.29 U	0.29 U	2.8 J	2.9 U	0.29 U
Toluene	0.22 J	46	930	4.4	11
trans-1,2-Dichloroethene	0.4 U	0.4 U	270	4 U	2.8
Trichlorofluoromethane	16	0.85	5.6 U	5.6 U	1.9
Vinyl chloride	0.26 U	0.26 U	1900	2.6 U	0.26 U
Xylene, m/p	0.87 U	10	3000	22	13
Xylene, o	0.43 U	3.5	1400	13	7.2

Notes:

Only Detected Compounds shown.

Samples analyzed for VOCs by USEPA Method TO-15.

Results in microgram per cubic meter ($\mu\text{g}/\text{m}^3$)

QC Code:

FS = Field Sample

Qualifiers:

U = Not detected at a concentration greater than the RL

J = Estimated value

D = Result is from a diluted analytical run

Detections are indicated in **BOLD**