



Site Summary & Work Plan Package

Vapor Intrusion Evaluations for New York State Remedial Sites

Huntington Landfill Site

NYSDEC Site ID # 1-52-040

**Town of Huntington
Suffolk County**

NYSDEC Project Manager: Strang

NYSDOH Project Manager: Mitchell

NYSDEC field investigations conducted to determine if there is soil vapor contamination at the site and to determine the extent to which these contaminants pose a threat to human health and the environment.

Soil gas investigations performed in accordance with the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York.

Site Information Summary for Triage Sites

Huntington Landfill
Site code: 152040

Locality: Suffolk (C) Huntington (T)

Site class: 04

te Address:

Town Line Road
 Huntington

Bureau: BUR A

DEC Manager: Strang

DOH Manager: Mitchell

Data Needs

<u>Groundwater</u>		<u>Soil</u>		<u>Soil vapor</u>	
<input type="checkbox"/> Depth (ft)	<input type="checkbox"/> Depth	<input type="checkbox"/> Depth	<input type="checkbox"/> Depth	<input type="checkbox"/> Conc	<input type="checkbox"/> Conc
<input type="checkbox"/> Conc (ppb)	<input type="checkbox"/> Conc	<input type="checkbox"/> Conc	<input type="checkbox"/> Conc	<input type="checkbox"/> Extent	<input type="checkbox"/> Extent
<input type="checkbox"/> Extent	<input type="checkbox"/> Extent	<input type="checkbox"/> Extent	<input type="checkbox"/> Extent	<input type="checkbox"/> Extent	<input type="checkbox"/> Extent

Site contact information:

Contact: _____

Phone: _____

Address: _____

Fax: _____

Email: _____

Site description:

This closed municipal landfill, located in the northwest portion of Suffolk County, has a confirmed leachate plume in the sole source aquifer. This plume has traveled at least two miles to the northeast. Private residential wells downgradient of the landfill have been contaminated with tetrachloroethylene (PCE) and landfill leachate parameters. These contaminants have also been detected in downgradient monitoring wells. There have been three phases of providing public water to residents whose wells have been or potentially will be impacted by the landfill leachate plume. A Consent Order for a full remedial program was signed on March 26, 1991. The order calls for capping of the landfill concurrent with a Remedial Investigation/Feasibility Study (RI/FS). The Town of Huntington has entered into a state assistance contract which provides for 75% grant funding of eligible costs. In December of 1991, the site boundary was modified to exclude the 12-acre leasehold property, now the site of the Town's resource recovery plant. The Interim Remedial Program (IRP) landfill cap design was completed in July of 1993 by the Town's consultant and approved for construction by the NYSDEC. A second "alternative" design was approved by the NYSDEC on August 3, 1994. The landfill closure system utilizing the "alternative" design (landfill cap and gas collection system) was constructed with the completion in August 1996. Previous environmental reports of the site include a NYSDEC Phase I and numerous groundwater sampling reports by the Town's consultants. The RI/FS was completed in November, 1995. A Record of Decision was signed in March, 1996. A public water supply protection/institutional controls remedy was selected. An outpost monitoring well upgradient of the Gun Club Road public supply well was constructed in January 1997. Monitoring reports are regularly submitted on this site by the Town.

DOH assessment:

Downgradient monitoring wells and some private wells were contaminated with inorganic and organic compounds associated with the landfill. Homes with private wells contaminated with site-related compounds or threatened by the groundwater contaminant plume migrating from the landfill have been connected to public water. The cap constructed on the landfill includes a gas collection/control system to prevent the off-site migration of landfill gas. The landfill cap will be maintained on a long-term basis to ensure proper function of the gas control system.

Operable units:

OU: 01 REMEDIAL PROGRAM

ROD year: 1996

Bureau: BUR A

VOCs present?

CVOCs present?

CVOC in groundwater (ug/L)

List volatile chemicals of concern (including non-CVOCs)
 TETRACHLOROETHYLENE (PCE OR "PERC.")

Y

Y

CVOC in soil (ppm)

Depth to max soil conc (ft)

Remedy

6 NYCRR Part 360 Cap

Plume Management Monitoring

Remedy comments

Date completed

March 1996

July 2004

Site Information Summary for Triage Sites

Huntington Landfill
Site code: 152040

Locality: Suffolk (C) Huntington (T)

Site class: 04

U: 02A IRM WATER

ROD year: N/A

Bureau: BURA

VOCs present? Y CVOCs present? Y CVOC in groundwater (ug/L)

List volatile chemicals of concern (including non-CVOCs)
 TETRACHLOROETHYLENE (PCE OR "PERC.")

CVOC in soil (ppm) Depth to max soil conc (ft)

Remedy

Remedy comments

Date completed

Depth to water table (ft) <u>70</u>	Are CVOCs present in water table aquifer? <u>U</u>	
Soil type _____	Is contamination overlain by clean groundwater? _____	
Plume size (L x W) _____	Is there an off-site plume? _____	

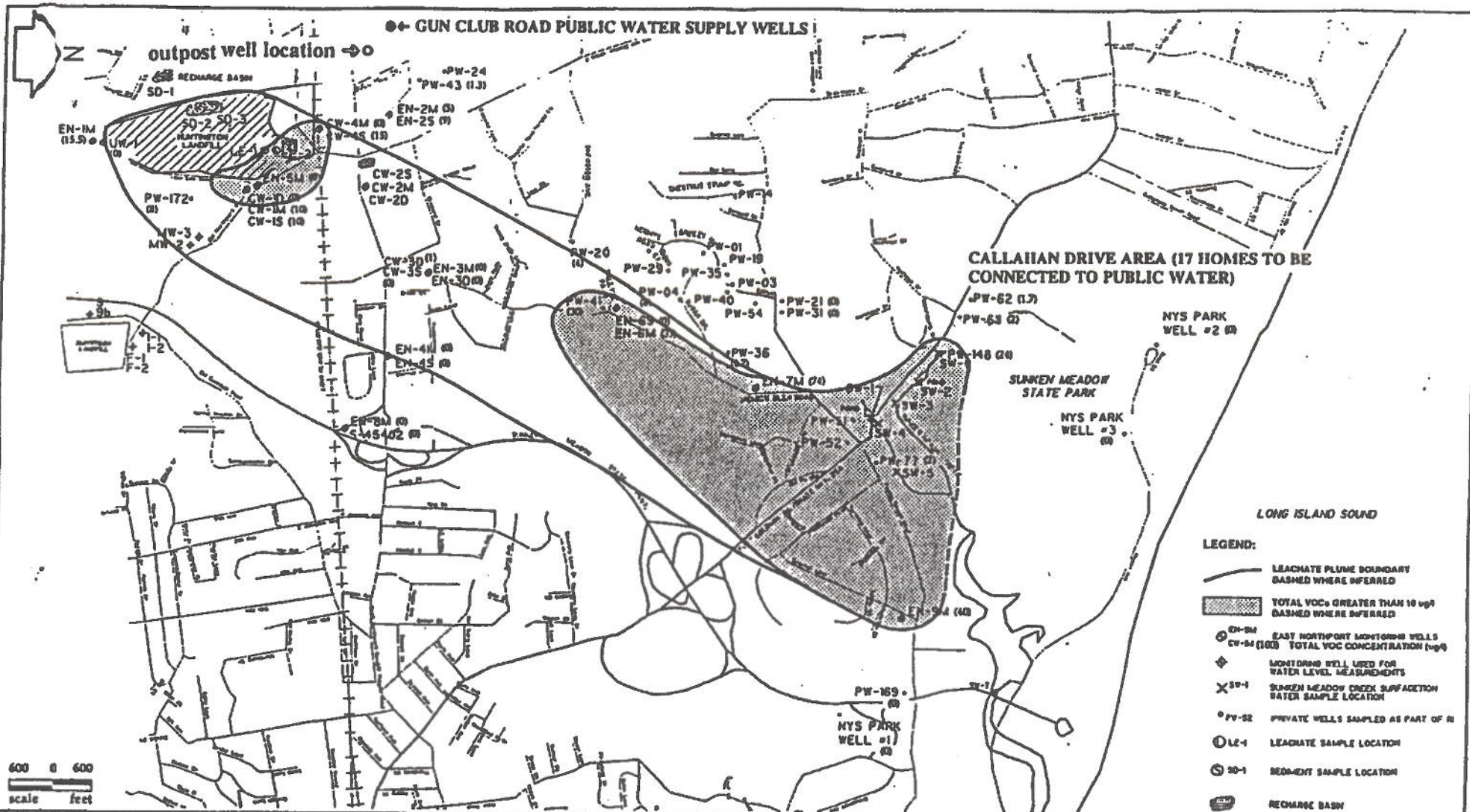
Analytical data available:	Date
<input type="checkbox"/> Soil	_____
<input type="checkbox"/> Groundwater	_____
<input type="checkbox"/> Soil vapor	_____
<input type="checkbox"/> Sub-slab	_____
<input type="checkbox"/> Indoor air	_____
<input type="checkbox"/> Outdoor air	_____

Potential receptors:

Land use (onsite) _____	Adjacent land use _____	
Number of structures _____	Distance to nearest structure (ft) _____	
Construction type <input type="checkbox"/> Slab-on-grade <input type="checkbox"/> Basement <input type="checkbox"/> Crawlspace	<input type="checkbox"/> Other _____	
	Est. number of impacted structures(offsite) _____	Sensitive receptors? _____
	Future on-site land use _____	

Comments:

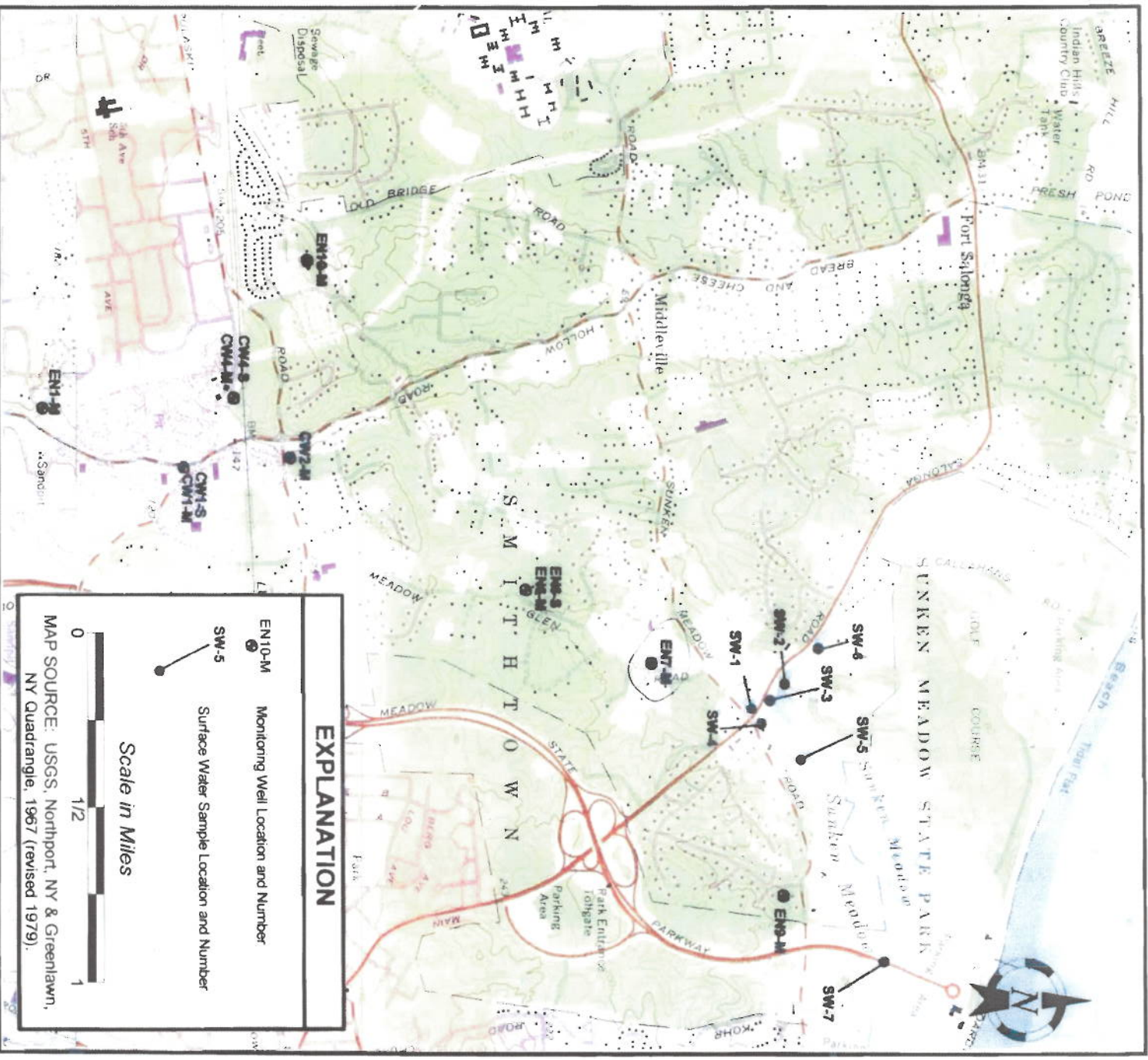
Note: Attach site map showing proposed sampling locations and copies of most recent sampling data.


CDM

 environmental engineers, scientists,
planners & management consultants

FIGURE 4
Extent Of VOCs Within Leachate Plume (Greater Than 10 µg/l)

Town Of Huntington
Remedial Investigation For The East Northport Landfill



Groundwater and Surface Water Sampling Locations	
East Northport Landfill	Prepared By: RDH
Post Closure Water Sampling	Reviewed By: RNC
	Date: May 2005
	Figure: 1

Table 2

Summary of Analytical Results-Groundwater
East Northport Landfill, East Northport, NY
Sampled September 7-8, 2005
Volatile Organic Compounds
Reported in Micrograms per Liter

Parameter	CW1-S	CW1-M	CW2-M	CW4-S	CW4-M	EN1-M	EN6-S	EN6-M	EN7-M	EN9-M	EN10-M	GW-B	TB-GW	FB9-8	NYSDEC Class GA Standard
Chloromethane	ND(0.45)	ND(0.45)	ND(0.45)	ND(0.45)	ND(0.45)	ND(0.45)	ND(0.45)	ND(0.45)	ND(0.45)	ND(0.45)	ND(0.45)	ND(0.45)	ND(0.45)	ND(0.45)	NS/GV
Bromomethane	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	5.0
Vinyl Chloride	ND(0.62)	ND(0.62)	ND(0.62)	ND(0.62)	ND(0.62)	ND(0.62)	ND(0.62)	ND(0.62)	3.8 J	ND(0.62)	ND(0.62)	ND(0.62)	ND(0.62)	ND(0.62)	2.0
Chloroethane	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.1)	5.0
Methylene Chloride	ND(0.98)	ND(0.98)	ND(0.98)	ND(0.98)	ND(0.98)	ND(0.98)	ND(0.98)	ND(0.98)	ND(0.98)	ND(0.98)	ND(0.98)	ND(0.98)	ND(0.98)	3.9 JB	5.0
Trichlorofluoromethane	ND(0.58)	ND(0.58)	ND(0.58)	ND(0.58)	ND(0.58)	ND(0.58)	ND(0.58)	ND(0.58)	ND(0.58)	ND(0.58)	ND(0.58)	ND(0.58)	ND(0.58)	ND(0.58)	5.0
1,1-Dichloroethene	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	1.7 J	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	5.0
1,1-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	1.9 J	ND(0.28)	1.3 J	2.7 J	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	5.0
trans-1,2-Dichloroethene	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	5.0
Chloroform	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	0.6 J	1.2 J	1.1 J	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	7.0
1,2-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	5.0
1,1,1-Trichloroethane	ND(0.17)	ND(0.17)	ND(0.17)	ND(0.17)	0.8 J	2.9 J	0.5 J	ND(0.17)	ND(0.17)	ND(0.17)	ND(0.17)	ND(0.17)	ND(0.17)	ND(0.17)	5.0
Carbon Tetrachloride	ND(0.34)	ND(0.34)	ND(0.34)	ND(0.34)	ND(0.34)	ND(0.34)	ND(0.34)	ND(0.34)	ND(0.34)	ND(0.34)	ND(0.34)	ND(0.34)	ND(0.34)	ND(0.34)	5.0
Bromodichloromethane	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	50.0 GV
1,2-Dichloropropane	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	5.0
cis-1,3-Dichloropropene	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	0.4*
Trichloroethene	ND(0.59)	ND(0.59)	0.8 J	ND(0.59)	ND(0.59)	ND(0.59)	ND(0.59)	1.5 J	5.8	ND(0.59)	ND(0.59)	ND(0.59)	ND(0.59)	ND(0.59)	5.0
Benzene	1.9 J	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.35)	0.9 J	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.35)	1.0
Dibromochloromethane	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	50.0 GV
trans-1,3-Dichloropropene	ND(0.29)	ND(0.29)	ND(0.29)	ND(0.29)	ND(0.29)	ND(0.29)	ND(0.29)	ND(0.29)	ND(0.29)	ND(0.29)	ND(0.29)	ND(0.29)	ND(0.29)	ND(0.29)	0.4*
1,1,2-Trichloroethane	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	1.0
2-Chloroethylvinyl Ether	ND(6.2)	ND(6.2)	ND(6.2)	ND(6.2)	ND(6.2)	ND(6.2)	ND(6.2)	ND(6.2)	ND(6.2)	ND(6.2)	ND(6.2)	ND(6.2)	ND(6.2)	ND(6.2)	NS/GV
Bromoform	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	50.0 GV
1,1,2,2-Tetrachloroethane	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.35)	5.0
Tetrachloroethene	ND(0.74)	ND(0.74)	ND(0.74)	ND(0.74)	ND(0.74)	ND(0.74)	ND(0.74)	4.9 J	10.0	ND(0.74)	ND(0.74)	ND(0.74)	ND(0.74)	ND(0.74)	5.0
Toluene	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	0.7 J	5.0
Chlorobenzene	6.6	0.9 J	ND(0.47)	ND(0.47)	ND(0.47)	ND(0.47)	ND(0.47)	ND(0.47)	1.8 J	ND(0.47)	ND(0.47)	0.8 J	ND(0.47)	ND(0.47)	5.0

Table 2 continued

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Contaminant	CW1-S	CW1-M	CW2-M	CW4-S	CW4-M	EN1-M	EN6-S	EN6-M	EN7-M	EN9-M	EN10-M	GW-B	TB-GW	FB4-12	NYSDEC Class GA Standard
Ethylbenzene	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	5.0
1,2-Dichlorobenzene	ND(0.67)	ND(0.67)	ND(0.67)	ND(0.67)	ND(0.67)	ND(0.67)	ND(0.67)	ND(0.67)	0.9 J	ND(0.67)	ND(0.67)	ND(0.67)	ND(0.67)	ND(0.67)	3.0
1,3-Dichlorobenzene	ND(0.65)	ND(0.65)	ND(0.65)	ND(0.65)	ND(0.65)	ND(0.65)	ND(0.65)	ND(0.65)	ND(0.65)	ND(0.65)	ND(0.65)	ND(0.65)	ND(0.65)	ND(0.65)	3.0
1,4-Dichlorobenzene	1.5 J	ND(0.79)	ND(0.79)	ND(0.79)	ND(0.79)	ND(0.79)	ND(0.79)	ND(0.79)	3.2 J	ND(0.79)	ND(0.79)	ND(0.79)	ND(0.79)	ND(0.79)	3.0

Note:

ND(): Compound not detected at the method detection limit

NYSDEC Class GA Standards: New York State Department of Environmental Conservation Ambient Water Quality Standards for Source of Drinking Water Title 6 Part 703 (per June 1998 revision)

GV: NYSDEC Guidance Value for Source of Drinking Water

NS/GV: No NYSDEC Standard or Guidance Value Established

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

B: Analyte Found in Associated Method Blank

*Standard of 0.4 applies to sum of cis and trans 1,3-Dichloropropene

Reported in Micrograms per liter

[illegible]

Table 3 continued

page 2 of 2

Contaminant	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SW-7	SW-8	TB-SW	NYSDEC Class GA Standard
Ethylbenzene	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	5.0
1,2-Dichlorobenzene	ND(0.67)	ND(0.67)	ND(0.67)	ND(0.67)	ND(0.67)	ND(0.67)	ND(0.67)	ND(0.67)	ND(0.67)	3.0
1,3-Dichlorobenzene	ND(0.65)	ND(0.65)	ND(0.65)	ND(0.65)	ND(0.65)	ND(0.65)	ND(0.65)	ND(0.65)	ND(0.65)	3.0
1,4-Dichlorobenzene	ND(0.79)	ND(0.79)	ND(0.79)	ND(0.79)	ND(0.79)	ND(0.79)	ND(0.79)	ND(0.79)	ND(0.79)	3.0

Note:

ND(): Compound not detected at the method detection limit

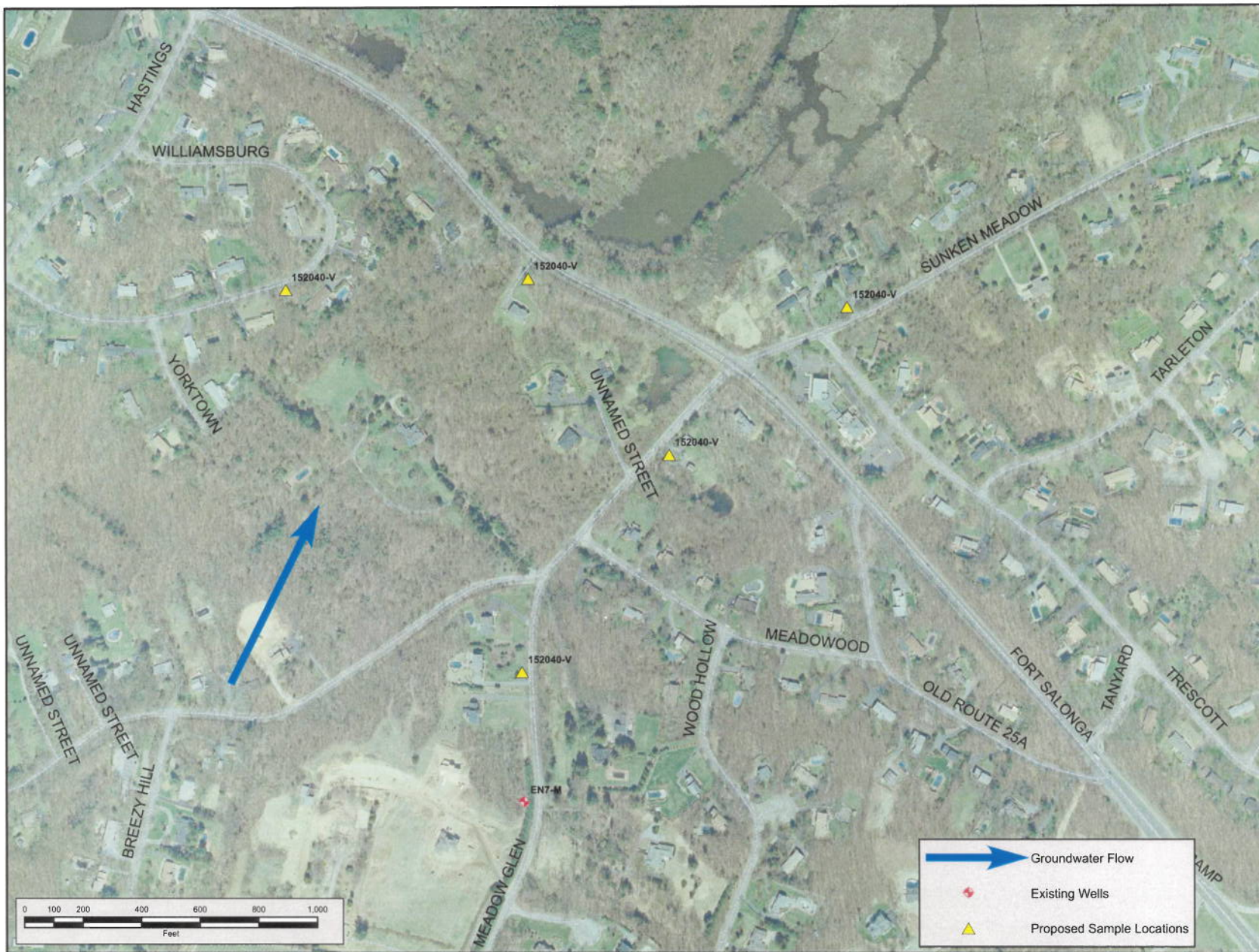
NYSDEC Class GA Standards: New York State Department of Environmental Conservation Ambient Water Quality Standards for Source of Drinking Water Title 6 Part 703 (per June 1998 revision)

GV: NYSDEC Class GA Guidance Value for Source of Drinking Water

NS/GV: No NYSDEC Standard or Guidance Value Established

*Standard of 0.4 applies to sum of cis and trans 1,3-Dichloropropene

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit



New York State
Department of Environmental Conservation
Division of Environmental Remediation

Map Details

Created in ArcGIS 9.1

Created by: Max Power

Date of Last Revision: 1/30/2006

UNAUTHORIZED DUPLICATION
IS A VIOLATION OF APPLICABLE LAWS

Huntington Landfill
Site #: 1-52-040
Suffolk County
Town of Huntington

DEC Contact:
Strang

DOH Contact:
Mitchell

April 2004
Aerial Photography



North American Datum 1983
UTM Zone 18N