NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
Site Classification Report

DATE: 7/30/2012

Site Code: 344035 **Site Name:** COSCO
City: Spring Valley **Town:** Ramapo
Region: 3 **County:** Rockland
Current Classification: 02 **Proposed Classification:** 04
Estimated Size (acres): 0.30 **Disposal Area:** Structure
Significant Threat: Previously **Site Type:**
Priority ranking Score: **Project Manager:** Randy Whitcher

Summary of Approvals

Originator/Supervisor: George Heitzman **05/29/2012**

RHWRE: : **06/08/2012**

BEEI of NYSDOH: **06/25/2012**

CO Bureau Director: Michael Ryan, Director, Remedial Bureau C: **06/25/2012**

Assistant Division Director: Robert W. Schick, P.E.: **06/29/2012**

Basis for Classification Change

Hazardous waste disposal at this site was addressed by implementation of the remedy identified for the site by one or more Records of Decision. All construction of the components of the site-wide remedy was completed no later than November 20, 2003, although the groundwater treatment system was rebuilt in 2011. Management of contamination remaining at the site, including any required monitoring, is and has been controlled pursuant to an Operation and Maintenance Plan. An Investigation Complete Actions Recommended (ICAR) soil vapor intrusion legacy memo was issued/recorded in September 2010. An SMP is under development. Institutional controls were not required by the ROD to ensure the protectiveness of the remedy. A significant threat to public health and the environment no longer exists at the site. The site is properly remediated and requires site management, therefore, it qualifies for Class 4 status on the Registry of Inactive Hazardous Waste disposal sites.

Site Description - Last Review: 07/30/2012

Description: The COSCO site is located in a suburban portion of Rockland County, NY. The site is approximately 0.3 acres in size. The site is bordered by a Conrail line to the north and by West Central Avenue to the south. The site is made up of the western corner of a 2.5 acre triangular block that holds the former COSCO buildings on the eastern side.

Site Features: The main site features include an abandoned parking lot and a small field.

DATE: 7/30/2012

Site Code: 344035 **Site Name:** COSCO

Current Zoning/Use: The site is currently used as a parking lot and a storage area for businesses inside the former COSCO building. The site is currently zoned as industrial. The surrounding parcels are currently used for commercial, light industrial and residential uses. The nearest residential area is 0.03 miles from the site to the south.

Historic Sources of Contamination: The two sources of contamination on this site were the Continental Plastic Company (CPC) and COSCO. CPC was pumping 20-30 gallons per minute of TCE/PCE-contaminated non-contact cooling water into a subsurface drainage structure. COSCO was using TCE in a vapor degreasing process and discharged rinse water from the plating operation to the same structure.

Site Geology and Hydrogeology: The overburden materials consist of a layer of fill material of sands and gravel below which lies a silty clay zone, sands and gravel, followed by a glacial till unit. The bedrock in the area is about 40 feet below grade and primarily made up of red shales and mudstones. Groundwater flow in the overburden aquifer at the site was to the southeast and a downward gradient exists between the overburden and bedrock aquifers. Regional bedrock groundwater flow appears to be to the northeast.

Contaminants of Concern (Including Materials Disposed)	**Quantity Disposed**
OU 00	
TETRACHLOROETHYLENE (PCE)	
TRICHLOROETHENE (TCE)	
OU 01	
TRICHLOROETHYLENE (TCE) (F001, F002)	0.00
TETRACHLOROETHYLENE (PCE) (F001, F002)	0.00

Analytical Data Available for : Groundwater, Surface Water, Soil, Sediment, Soil Vapor, Indoor Air

Applicable Standards Exceeded for: Groundwater, Drinking Water

Site Environmental Assessment- Last Review: 07/30/2012

Nature and Extent of Contamination: All engineering controls required for the remedy have been constructed. Prior to remediation, the primary contaminants of concern were tetrachloroethene trichloroethene, 1,2 dichloroethene, and vinyl chloride in groundwater and soils.

Special Resources Impacted/Threatened: There are no known special resources affected by this site.

Significant Threat: The site no longer presents a significant threat to human health and the environment.

Site Health Assessment - Last Update: 06/01/2012

DATE: 7/30/2012

Site Code: 344035 **Site Name:** COSCO

Measures are in place to control the potential for coming in contact with subsurface soil contamination remaining on the site. Contaminated groundwater at the site is not used for drinking or other purposes and the site is served by a public water supply that is treated to remove contaminants before the water is distributed to consumers. Volatile organic compounds in the groundwater or soil may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, is referred to as soil vapor intrusion. Because there is no on-site building, inhalation of site contaminants in indoor air due to soil vapor intrusion does not represent a concern for the site in its current condition. However, the potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site development. A subslab depressurization system (system that ventilates/removes the air from beneath the building) has been installed in one off-site building to prevent the indoor air quality from being affected by the contamination in soil vapor beneath the building. Sampling indicates that soil vapor intrusion is limited to this off-site building and not a concern for other off-site buildings.

	Start		End	
OU 00				
Site Management	6/2/03	ACT	4/1/20	PLN
OU 01				
Reclass Pkg.	5/31/12	ACT	7/30/12	ACT
Remedial Action	6/18/01	ACT	11/20/03	ACT
Remedial Design	1/1/97	ACT	3/23/00	ACT
Remedial Investigation	6/1/87	ACT	3/1/90	ACT
VI Evaluation	10/1/08	ACT	9/28/10	ACT

Remedy Description and Cost

Remedy Description for Operable Unit 01

In August of 1999, an Amendment to the Record of Decision was signed for the COSCO site. The amended ROD requires:

1) A remedial design program to verify the components of the conceptual design and provide the details necessary for the construction, operation and maintenance, and monitoring of the remedial program.

2) Extraction of contaminated overburden and bedrock groundwater in the source area and treatment by chemical oxidation and polishing technologies.

3) Completion/repair of the existing asphalt cap over the tailings dump area.

4) Long-term groundwater monitoring to evaluate the effectiveness of both the groundwater extraction and the tailings dump cap.

In 2005, the chemical oxidation and polishing system was taken offline. In November of 2011, the chemical oxidation and polishing system was replaced by an air stripper unit which is currently remediating groundwater.

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In August of 2010, a Sub-Slab Depressurization System (SSDS) was installed at an off-site property to mitigate sub-slab soil vapor. The SSDS is inspected annually as part of the statewide contract for SSDS operation and maintenance. Sampling of neighboring houses indicates that no action is required to address SVI.

Total Cost $1,852,153

OU 00 **Site Management Plan Approval: 06/02/2003** **Status: ACT**

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Form
7/30/2012

SITE DESCRIPTION

SITE NO. 344035

SITE NAME COSCO

SITE ADDRESS: 15 West Street ZIP CODE: 10977

CITY/TOWN: Spring Valley

COUNTY: Rockland

ALLOWABLE USE: Industrial

SITE MANAGEMENT DESCRIPTION

SITE MANAGEMENT PLAN INCLUDES:	YES	NO
IC/EC Certification Plan	☐	☒
Monitoring Plan Operation and Maintenance (O&M) Plan	☒	☐
Periodic Review Frequency: every three years	☒	☐

Periodic Review Report Submittal Date:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
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Description of Institutional Control

WEST CENTRAL ASSOCIATES L P
15 West Street
15 WEST ST
Decision Document
Block: 46
Lot: 1
Sublot: 1
Section: 57
Subsection:
S_B_L Image:
Monitoring Plan
O&M Plan

Description of Engineering Control

WEST CENTRAL ASSOCIATES L P
15 West Street
15 WEST ST
Decision Document - Institutional Control Instrument
Block: 46
Lot: 1
Sublot: 1
Section: 57
Subsection:
S_B_L Image:
Groundwater Treatment System
Vapor Mitigation

NEW YORK
state department of
HEALTH

Nirav R. Shah, M.D., M.P.H.
Commissioner

Sue Kelly
Executive Deputy Commissioner

June 25, 2012

Michael Ryan, Director
Remedial Bureau C
Division of Environmental Remediation
NYS Dept. of Environmental Conservation
625 Broadway, 11th Floor
Albany, New York 12233

Re: **Reclassification Package**
COSCO
Site #344035
Spring Valley, Rockland County

Dear Mr. Ryan:

Per your request, we have reviewed the New York State Department of Environmental Conservation's (NYSDEC's) proposal to reclassify the above-referenced site from a Class 2 to a Class 4 on the NYSDEC's Registry of Inactive Hazardous Waste Disposal Sites. Specifically, we have reviewed the proposal to determine whether this reclassification is protective of public health. I understand that remedial actions conducted have reduced contamination in groundwater and that measures are in place minimize the potential for contact with contaminants in soil. In addition, a sub-slab depressurization system has been installed in one off-site building to prevent the indoor air quality from being affected by the contamination in soil vapor beneath the building. Sampling indicates that soil vapor intrusion is limited to this off-site building and is not a concern for other off-site buildings.

Based on this information, I believe the proposal is protective of public health and concur with the Class 4 (requires continued site management) classification. If you have any questions, please contact Ms. Charlotte Bethoney or me at (518) 402-7880.

Sincerely,

Krista M. Anders

Krista M. Anders, Acting Director
Bureau of Environmental Exposure Investigation

ec: A. Salame-Alfie, Ph.D.
C. Bethoney / F. Navratil / N. Walz / File
B. Devine – NYSDOH MDO
C. Quinn – RCDH
K. Lewandowski / G. Heitzman / R. Whitcher – NYSDEC Central Office
E. Moore – NYSDEC Region 3

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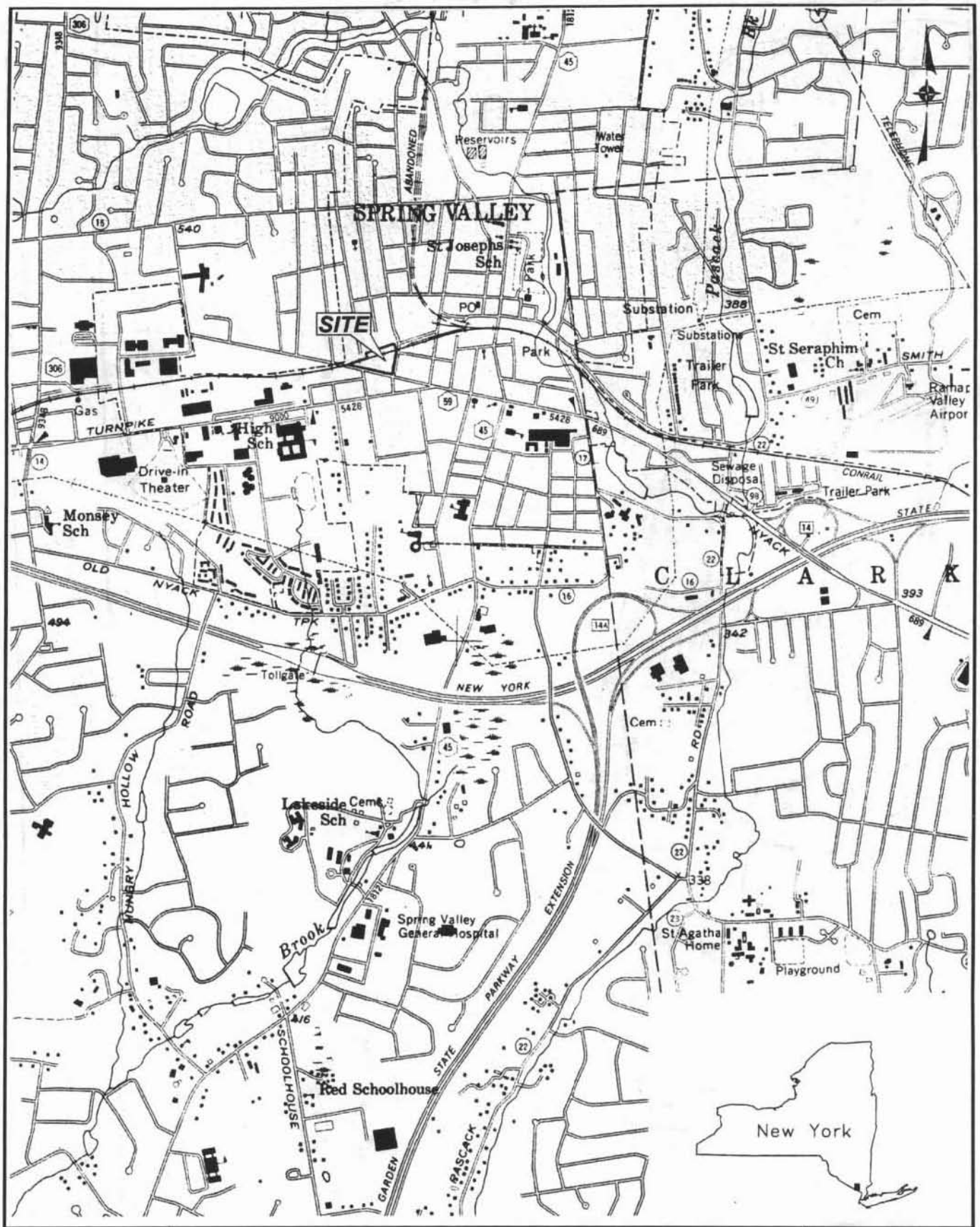
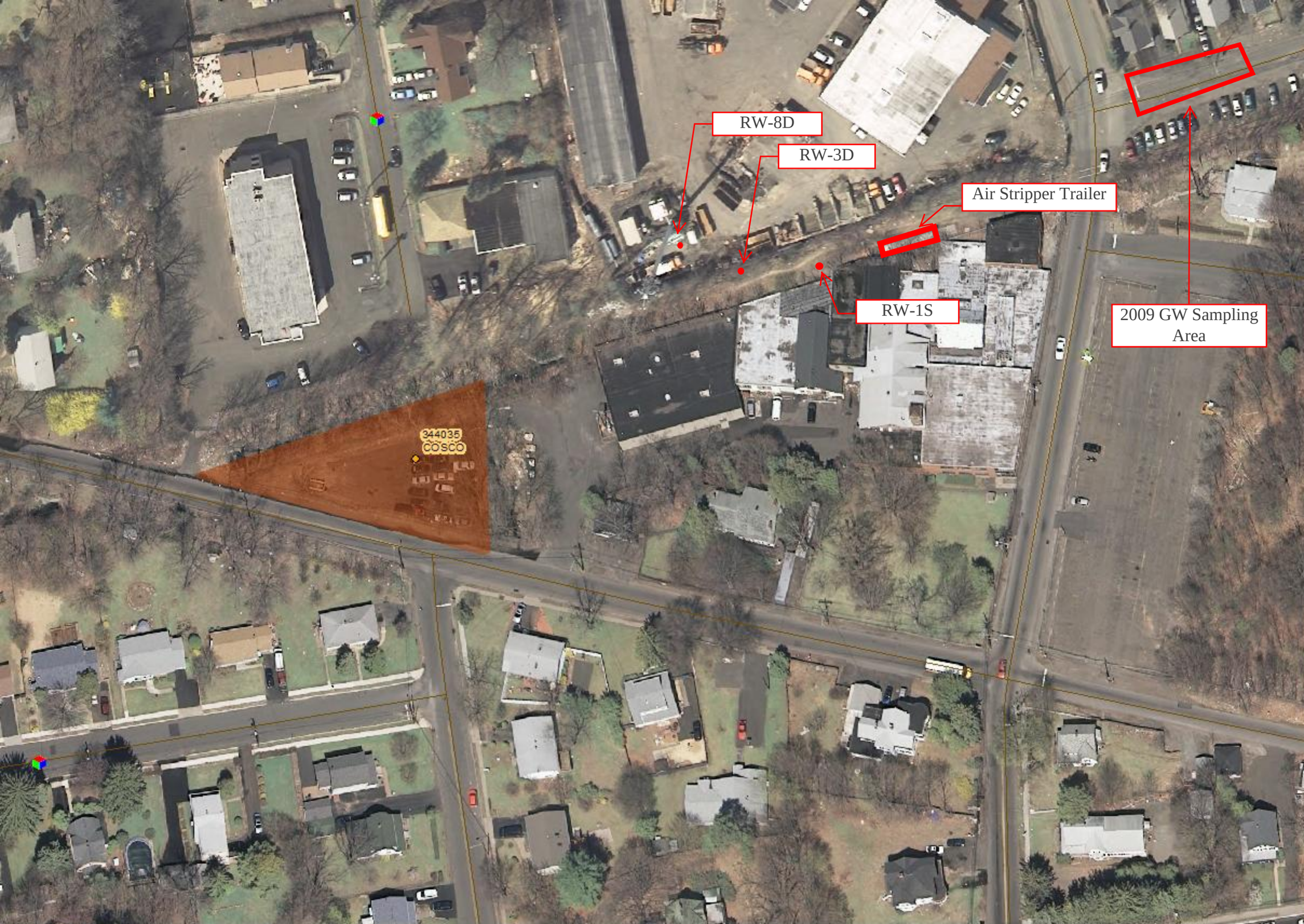


COSCO/CPC SITE
SPRING VALLEY, ROCKLAND COUNTY, NEW YORK

SITE LOCATION

FIGURE 1


RW-8D
RW-3D
Air Stripper Trailer
RW-1S
2009 GW Sampling Area
344035
COSCO

COSCO Treatment Well Influent Samples (04/18/12)			
Sample Well ID	Compound	WQSs (ppb)	Result (ppb)
RW-1S	PCE	5	3
	TCE	5	24
	1,2 DCE	5	12
RW-3D	PCE	5	62
	TCE	5	78
	1,2 DCE	5	26
RW-8D	PCE	5	1.6
	TCE	5	4.5
	1,2 DCE	5	12
	vinyl chloride	2	2.4
Combined Influent	PCE	5	46
	TCE	5	59
	1,2 DCE	5	23
COSCO Treatment System Effluent Sample (04/18/12)			
	PCE	5	ND
	TCE	5	ND
	1,2 DCE	5	ND
	vinyl chloride	2	ND

VOCs DETECTED in GROUNDWATER (10/15/09)

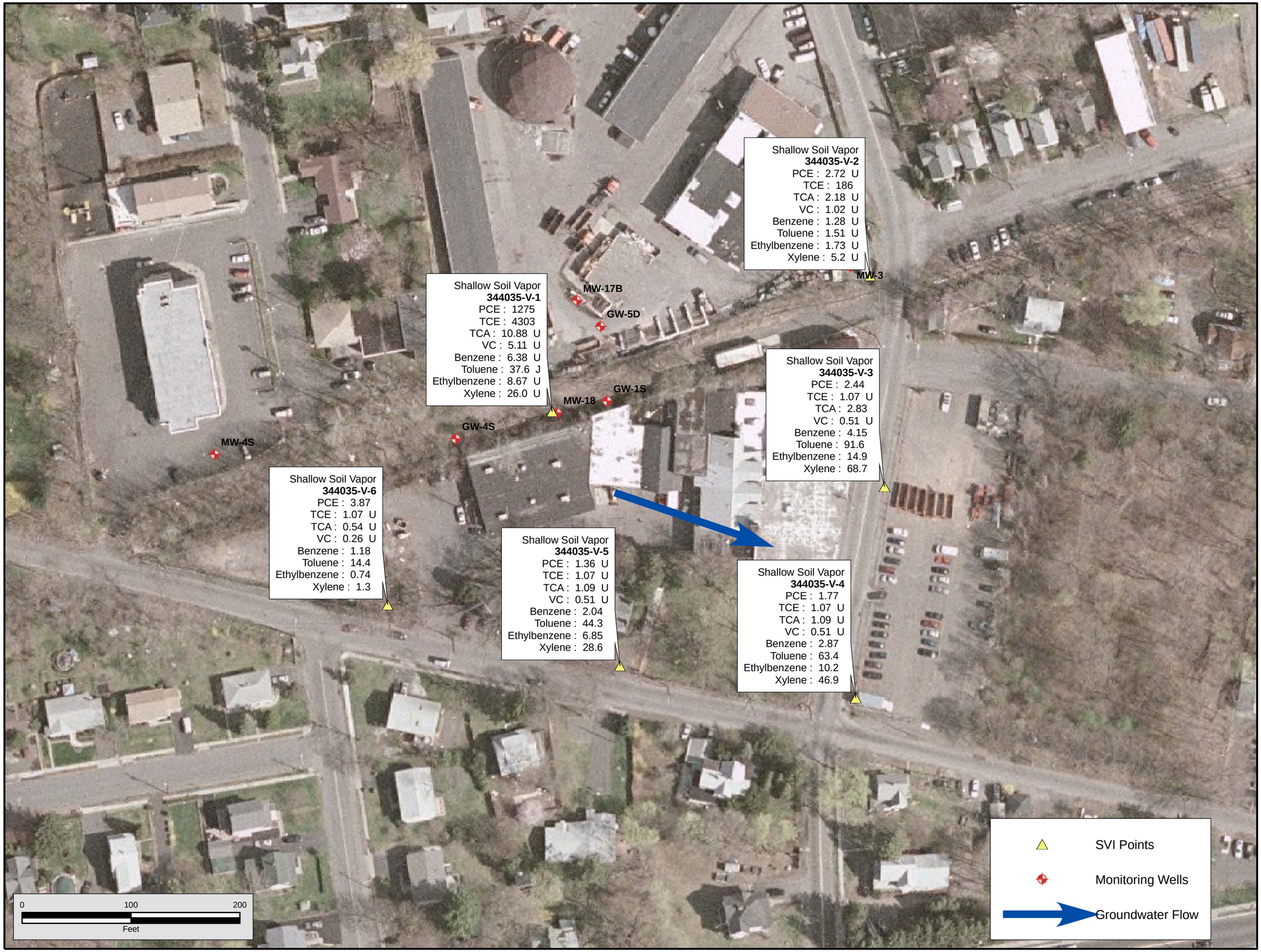
ANALYTE	B-1	B-2	B-3	B-5	B-7	DW-1
Acetone	11	43	nd	nd	nd	nd
2-Butanone	nd	13	nd	nd	nd	nd
4-Methyl-2-Pentanone	nd	12	nd	nd	nd	nd
Trichloroethene	33	nd	11	4.4 J	nd	nd
TOTAL VOCs	**44**	**68**	**11**	**4.4**	**ND**	**ND**

Note: B-1 through B-7 are Geoprobe samples, and DW-1 is a new monitoring well

COSCO SITE OM&M
OFF-SITE GROUNDWATER SAMPLING (2009)

FIGURE 2

IEG



New York State
Department of Environmental Conservation

Division of Environmental Remediation

Map Details

Created in ArcGIS 9.1

Created by E. Hausamann

Date of Last Revision: 06/15/2006

COSCO
Site #: 3-44-035
Rockland County
Village of Spring Valley

FIGURE 1

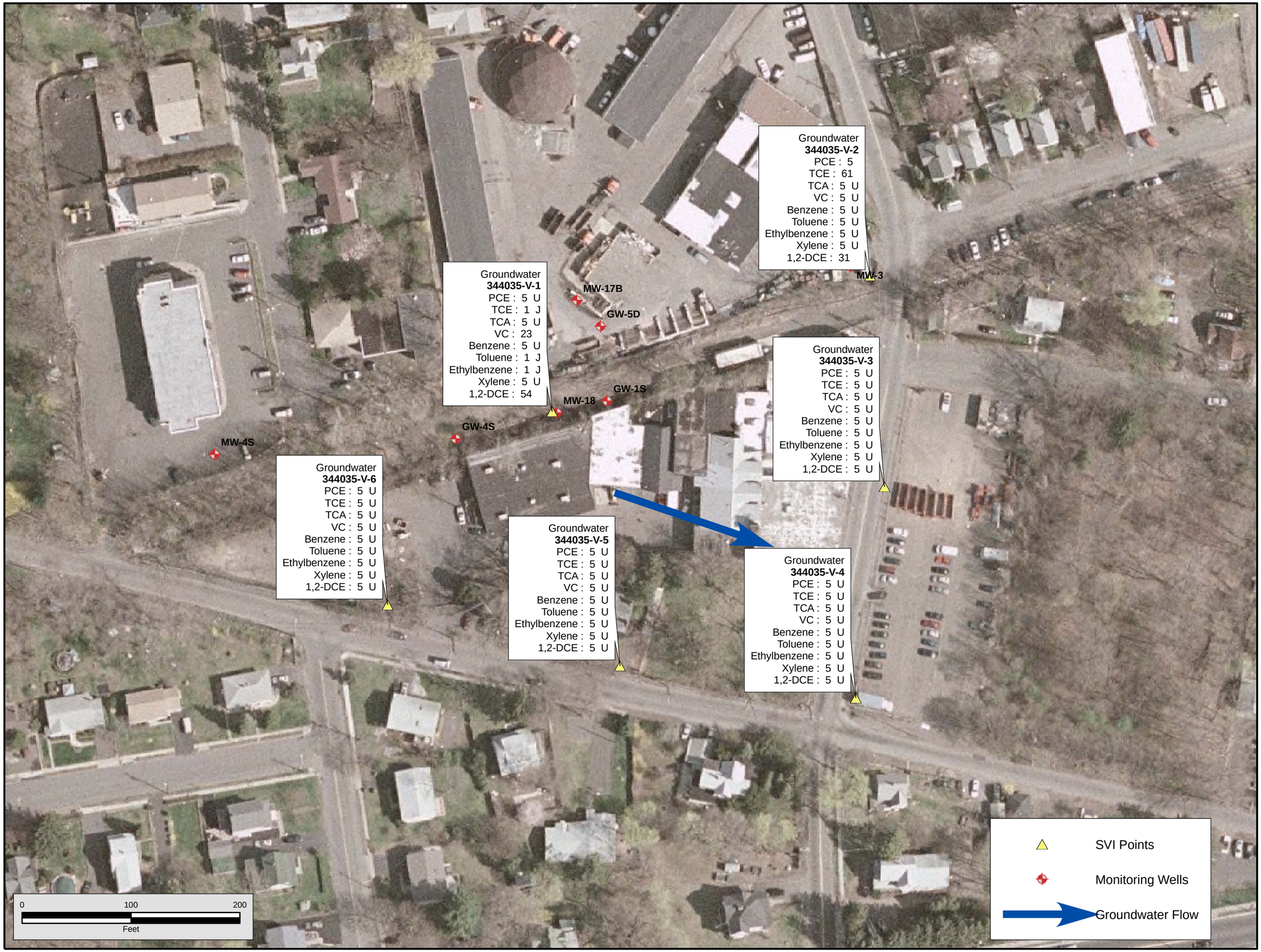
SVI Sample Locations
Soil Vapor Results

all results in ug/m3

Spring 2004
Aerial Photography

N
W
E
S

North American Datum 1983
UTM Zone 18N



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COSCO
Site #: 3-44-035
Rockland County
Village of Spring Valley

FIGURE 2

SVI Sample Locations
Groundwater Results

all results in ppb

Spring 2004
Aerial Photography

N
W E
S

North American Datum 1983
UTM Zone 18N

COSCO/CPC SITE
SPRING VALLEY, ROCKLAND COUNTY, NEW YORK

SITE FEATURES AND RI SAMPLING LOCATIONS

FIGURE 2

TABLE 1: SUMMARY OF ANALYTICAL DATA
COSCO/CPC Site, Site No. 3-44-035

Media	Location	Compound	SCG (ppm)	Previous Data		Pre-design Data	
				Concentration Range (ppm)	Frequency of Exceeding SCG	Concentration Range (ppm)	Frequency of Exceeding SCG
Soil	Source Area	1,2-DCE	0.3	ND to 1.2	1 of 10	ND to 0.19	0 of 13
		TCE	0.7	ND to 4.8	2 of 10	ND to 0.22	0 of 13
		PCE	1.4	ND to 0.53	0 of 10	ND to 0.04	0 of 13
		Total VOCs	10	ND to 5.56	0 of 10	ND to 0.726	0 of 13
	Tailings Dump	VOCs	10	ND	0 of 6	NA	NA
		SVOCs	500	ND to 89.4	0 of 6	NA	NA
		Pesticides	10	ND to 0.29	0 of 6	NA	NA
		PCBs	10	ND to 5.3	0 of 6	NA	NA
Sediments	Former Reach B	VOCs	1	0.004 to 38.7	2 of 4	0.0012 to 0.0099 [1]	0 of 3 [1]
Groundwater	Overburden	VOCs	0.005	24.9	1 of 1	ND to 1.16	8 of 23
	Bedrock	VOCs	0.005	15.4	1 of 1	ND to 3.11	3 of 4

Notes:

1. The former drainage way was filled in, therefore, the pre-design data for the former Reach B represent subsurface samples of soils/sediments in vicinity of the buried drainage way.
2. NA = not available (not sampled).
3. ND = non-detected