



### SITE INVESTIGATION INFORMATION

<b>1. SITE NAME</b>	<b>2. SITE NUMBER</b>	<b>3. TOWN/CITY/VILLAGE</b>	<b>4. COUNTY</b>
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<b>5. REGION</b>	<b>6. CLASSIFICATION</b>  <div style="text-align: center;"> <input type="checkbox"/> CURRENT [ ]    <input type="checkbox"/> PROPOSED [ ]    <input type="checkbox"/> MODIFICATION         </div>
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**7. LOCATION OF SITE (Attach U.S.G.S. Topographic Map showing site location)**

a. Quadrangle \_\_\_\_\_ b. Site Latitude \_\_\_\_E \_\_\_\_' \_\_\_\_"    Site Longitude \_\_\_\_E \_\_\_\_' \_\_\_\_"

c. Tax Map Number(s) \_\_\_\_\_ d. Site Street Address \_\_\_\_\_

**8. BRIEFLY DESCRIBE THE SITE (Attach site map showing disposal/sampling locations)**

a. Area \_\_\_\_\_ acres    b. Completed: ( ) Env. Property Assessment ( ) PSA ( ) SI ( ) ESI ( ) IRM ( ) RI/FS ( ) Construction ( ) O&M ( ) Other \_\_\_\_\_

**9. HAZARDOUS WASTE DISPOSED (Include EPA Hazardous Waste Numbers)**

**10. ANALYTICAL DATA AVAILABLE**

a. ( ) Air ( ) Groundwater ( ) Surface Water ( ) Sediment ( ) Soil ( ) Waste ( ) Leachate ( ) EPTox ( ) TCLP

b. Contravention of Standards or Guidance Values \_\_\_\_\_

**11. CONCLUSION**

a. Institutional Controls (IC) Required? ( ) Y ( ) N    b. If yes, identify \_\_\_\_\_    c. Are these ICs in place and verified? ( ) Y ( ) N

**12. SITE IMPACT DATA**

a. Nearest Surface Water: Distance _____ ft.	Direction _____	Class _____
b. Groundwater: Depth _____ ft.	Flow Direction _____	( ) Sole Source ( ) Primary ( ) Other High-Yield Aquifer
c. Water Supply: Distance _____ ft.	Direction _____	Active ( ) Yes ( ) No
d. Nearest Building: Distance _____ ft.	Direction _____	Use _____
e. Documented fish or wildlife mortality?	( ) Y ( ) N	h. Exposed hazardous waste? ( ) Y ( ) N
f. Impact on special status fish or wildlife resource?	( ) Y ( ) N	i. If proposed Classification is 2, Priority? ( ) 1 ( ) 2 ( ) 3
g. Controlled Site Access?	( ) Y ( ) N	j. EPA ID# _____ HRS Score _____

<b>13. SITE OWNER'S NAME</b>	<b>14. ADDRESS</b>	<b>15. TELEPHONE NUMBER</b>
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<b>16. PREPARER</b>	<b>17. APPROVED</b>
Signature _____ Date _____	Signature _____ Date _____
Name, Title, Organization _____	Name, Title, Organization _____

**NEW YORK STATE DEPARTMENTS OF ENVIRONMENTAL CONSERVATION AND HEALTH  
INACTIVE HAZARDOUS WASTE DISPOSAL SITE PRIORITY RANKING WORKSHEET**

SITE I.D. \_\_\_\_\_ SITE NAME \_\_\_\_\_

E **Priority I** - Sites for which remediation should supersede all other Class 2 sites. Priority I can be assigned if any one of the following questions can be answered affirmatively.

- a) Has a public or private water supply which is currently in use been contaminated or threatened?.....)))- \* +)))))
- b) Has human exposure to contaminants (or the potential for exposure) been identified which represents a significant health risk as determined by DOH?.....)))- \* +))))) /)))1 \*(1)
- c) Has bioaccumulation of site contaminants in flora or fauna resulted in a health advisory?.....)))- \* [If 1 or more boxes are checked, \* check this box]
- d) Are site contaminants present at levels that are acutely toxic to fish or wildlife or that have caused documented fish or wildlife mortality?.....)))- \* checked, \* check this box]
- e) Is there a potentially responsible party or volunteer ready, willing and able to proceed with remediation?.....)))- \* S))-

E **Priority II** - Important Sites. Priority II will be assigned if any of the following questions can be answered affirmatively.

- a) Has a Class A or AA surface water body, a primary aquifer or other high yielding aquifer been contaminated or threatened without affecting an existing water supply which draws from it?.....)))- \* +)))))
- b) Has bioaccumulation of site contaminants in flora or fauna resulted in actionable levels (but not a health advisory)?.....)))- \* [If 1 or more boxes are checked, \* check this box]
- c) Are contaminants at levels chronically toxic to fish/wildlife?.....)))- \* more boxes are checked, \* check this box]
- d) Have endangered, threatened or rare species, significant habitats, designated coastal zone or regulated wetlands been impacted by releases from the site?.....)))- \* box]

E **Priority III** - will be assigned unless one or more of the site prioritization criteria, specified above, apply to a site. After remedial needs for Priority I and II sites have been accommodated, remediation of sites under this category can be considered. If priority III, check box 3.

Enter the number of the priority box checked 1, 2, or 3 here.....)))-  
This is the site's priority rank.

**FACTORS**

**IJC Factor** - If the site has been identified by the International Joint Commission (IJC) as a component in a remedial action plan, subtract (1) from the value in box 4 and enter the result in box 5.....)))- \* Yes No

**EDZ Factor** - If the site is within a New York State designated Economic Development Zone (EDZ) should this fact cause the site priority to be raised?..)))- \* Yes No

**Community Support Factor** - If the site has been targeted for local government-supported development, should this fact cause the site priority to be raised?.....)))- \* Yes No

If either "yes" box is checked, subtract 1 from the value in box 4 and enter the result into box 6. If "no" is checked, the value in box 6 equals box 4 (or box 5 if applicable). If both IJC and EDZ/Community Support factors apply, only 1 (not 2) will be subtracted from the value in box 4. The resultant value in box 6 will never be less than 1.....)))- \* Yes No

**IRM NOTE:** Should this site be considered a candidate for an Interim Remedial Measure (IRM) as defined by 6NYCRR Part 375-1.3n?.....)))- \* Yes No

**If "yes", please explain why:** \_\_\_\_\_  
\_\_\_\_\_

Preparer \_\_\_\_\_ Date \_\_\_\_\_

**Inactive Hazardous Waste Disposal Report**

<b>Site Name:</b> Edward Allen Landfill	<b>Site Code:</b> 851001
Class Code: 4      Region: 8      County: Steuben	EPA Id: NYD980506240
Address: Bailey Creek Road	City: Corning      Zip: 14830
Latitude: 42 5' 47"      Longitude: 77 4' 9"	
Site Type: Landfill	Estimated Size: 25 Acres

<b>Site Owner / Operator Information:</b>		
Current Owner(s) Name:	Edward Allen	
Current Owner(s) Address:	Bailey Creek Rd.	Corning NY 14830
Owner(s) during disposal:	Edward Allen	
Operator(s) during disposal:		
Stated Operator(s) Address:		
Hazardous Waste Disposal Period:	From 1953	To 1979

**Site Description:**

Hillside topography: Rural area with nearest dwelling 6000 feet downgradient  
 Nearest water body: Unnamed tributary to Bailey Creek, adjacent to the site

This site is an inactive landfill for which the final closure was never completed. The landfill was inspected and sampled in June of 1984. At the time, a number of Part 360 violations were noted. Most notable, was a large outbreak of dark colored leachate that was flowing towards an unnamed tributary of Bailey Creek. A State Superfund (SSF) Phase II Investigation has been completed. In September of 1987 a Consent Order to conduct a Remedial Investigation/Feasibility Study (RI/FS) was signed by the PRPs (Corning Glass & Westinghouse). The RI field work was conducted in 1988 and 1989. The RI report was approved by the Department in June of 1991. The FS was submitted in August of 1991, and revised in October. A Record of Decision (ROD) was issued in the spring of 1992. The ROD calls for a Part 360 closure of the landfill with appropriate leachate management and long term monitoring. Also called for was wetland restoration work, storm water management and the installation of security fencing. The ROD also addressed the required administrative controls. A Remedial Design (RD) was completed and construction was started in June of 1994. The construction was completed in 1996 and included an operable leachate collection system and an impermeable membrane cap. An operation & maintenance (O&M) plan has been finalized. The O&M manual was submitted to the DEC in March of 1996, and quarterly monitoring reports are being submitted by the PRPs to the DEC.

**Confirmed Hazardous Waste Disposal:**

Westinghouse: calcium flouride sludge  
 copper hydroxide sludge, zinc sulfide  
 phoshors, sodium chloride sludges  
 hydrated lime  
 Corning glass; cullet, catalytic converters

**Quantity:**

100,00 gallons/year  
  
  
  
unknown

Analytical Data Available for:	<b>Groundwater</b>	<b>Surface Water</b>	<b>Soil</b>	<b>Sediment</b>
Applicable Standards Exceeded in:	<b>Groundwater</b>	<b>Surface Water</b>		
<i>Geotechnical Information:</i>				Depth to
Soil/Rock Type: Volusia-channery silt loam				Groundwater: <b>Approximately 2 to 5 feet.</b>

Legal Action: Type:	<b>State Consent Order</b>	Status:	<b>Order Signed</b>
Remedial Action:	<b>In Progress</b>	Nature of action:	<b>Construction of leachate collection, Cap</b>

**Assessment of Environmental Problems:**

A leachate collection system is operating to control releases to nearby Bailey Creek and the site has been closed under the Part 360 Program in accordance with a Record of Decision. A monitoring program has been established under the current operations and maintenance program at this site.

**Assessment of Health Problems:**

The site has been remediated as required by the Record of Decision. The landfill was capped and is now completely fenced, which will prevent on-site exposure. A leachate collection system was installed preventing leachate from migrating off-site. Long-term monitoring at the site includes semi-annual sampling of groundwater from on-site monitoring wells and off-site private wells.

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## 5.0 INVESTIGATION FINDINGS

Review of physical and chemical data developed during the PSA, resulted in the following findings:

1. Hazardous waste use and storage (1,1,1-TCA) were reported at the Site.
2. The concentration of 1,1,1-TCA in the Site water supply well in October 2001 (7.1 µg/L), exceeds the NYS Class GA groundwater standard of 5 µg/L. Although there is no treatment system at the Site facility, the water is labeled as non-potable and bottled water is provided. No exceedances of state groundwater standards were observed in residential water supply well samples analyzed in October 2001.
3. No exceedances of the state groundwater standards were noted in the samples collected in September 2002, including a sample from the Site water supply well.
4. A Site source of 1,1,1-TCA was not identified. 1,1,1-TCA was not detected in soil samples, or in septic tank water samples. Contamination in groundwater could be the result of dispersal of small quantities of solvent, either from BOCES practices, or from the reported former junkyard (Nash's Junkyard) at the Site. 1,1,1-TCA was detected in groundwater samples collected from private wells at the mobile homes southwest of the site, and in groundwater samples collected at the Snyder Junkyard property boundary.
5. Considering Site historical use of 1,1,1-TCA, the Site facility is likely the original source of contamination, but the current distribution and low concentrations of contamination do not indicate a continuing contamination source area. It is possible the extent of the original source area has been diminished through volatilization, dispersion, dilution, and biological degradation. The persistent presence of 1,1,1-TCA in groundwater at low concentrations indicates that 1,1,1-TCA is likely sorbed to the soil matrix. Vapor migration of 1,1,1-TCA may be contributing to the wide dispersion of the contaminant observed in shallow groundwater.
6. Concentrations of m,p-xylene (6.7 µg/L), ethylbenzene (8.4 µg/L), and chloroform (949 NJ µg/L) detected in the sample from an apparent perched shallow water table in boring BW-1 exceeded the NYS Class GA groundwater standards of 5 µg/L, 5 µg/L, and 7 µg/L, respectively, and are most likely the result of fuel spills. This sample location is alongside the Site facility parking lot.
7. Concentrations of benzene (9.8 µg/L), m,p-xylene (17 µg/L), and o-xylene (8.3) detected in the shallow groundwater sample BW-15, collected south of the Snyder junkyard, exceed NYS Class GA groundwater standards of 1 µg/L, 5 µg/L, and 5 µg/L, respectively. Other than groundwater samples from borings BW-1 and BW-15, no other exceedances of NYS Class GA groundwater standards or guidance values were noted in the direct push

## SECTION 5

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groundwater samples.

8. Groundwater flow direction at the Site is interpreted to vary, depending on the season. Groundwater flow during springtime (wet season) appears to be to the southwest, toward the wetlands. During the fall and winter (dry season), the wetland appears to be a local groundwater recharge area, and groundwater flows from the wetland to the northeast. Localized pumping stresses (from private wells), and groundwater mounding (from septic systems) may also be affecting the groundwater flow, due to the relatively flat groundwater gradient in the area.

The Town of Bath is considering extending water service lines from the Village of Bath, through the area of concern, to Interstate 17. If the line is completed in the predicted time frame, public water connection for the Site facility and the mobile homes would be completed in approximately four to five years (Smith, 2002).

**TABLE 2-1  
HISTORIC AND PSA PRIVATE WELL ANALYTICAL LABORATORY DATA  
PRELIMINARY SITE ASSESSMENT REPORT  
STEUBEN-ALLEGANY BOCES SITE  
BATH, NY**

Sample Date <sup>2</sup>	1,1,1-TCA Concentrations (µg/L) <sup>1</sup>						
	6666 Babcock Hollow Road (Site Well)	6659 Babcock Hollow Road	6653/6657 Babcock Hollow Road	6649 Babcock Hollow Road	6669 Babcock Hollow Road	6692 Route 415 South	6645 Babcock Hollow Road
8/26/1992	12	NA	NA	NA	NA	NA	NA
2/1/1993	8	NA	NA	NA	NA	NA	NA
2/25/1993	8	20	NA	NA	NA	ND	ND
3/29/1993	18	ND	9	NA	ND	NA	NA
4/27/1993	NA	26	23	3	ND	NA	NA
7/14/1993	6	16	13	3	ND	ND	NA
6/20/1994	8.2	13	13	3.2	0.9	NA	NA
10/8/1996	5.8	9.7	8.5	2.8	ND	NA	NA
11/16/1999	8.2	NA	5.1	NA	NA	NA	NA
10/29 & 10/30/01	7.1	2.3	3.8	3.1	NA	ND	NA
9/24/2002	4	1.5	5	NA	ND	NA	NA

Notes:

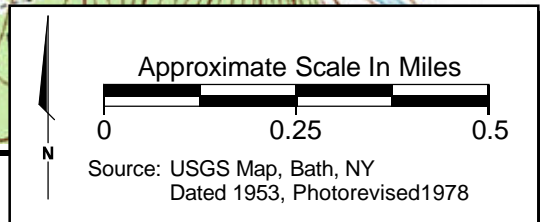
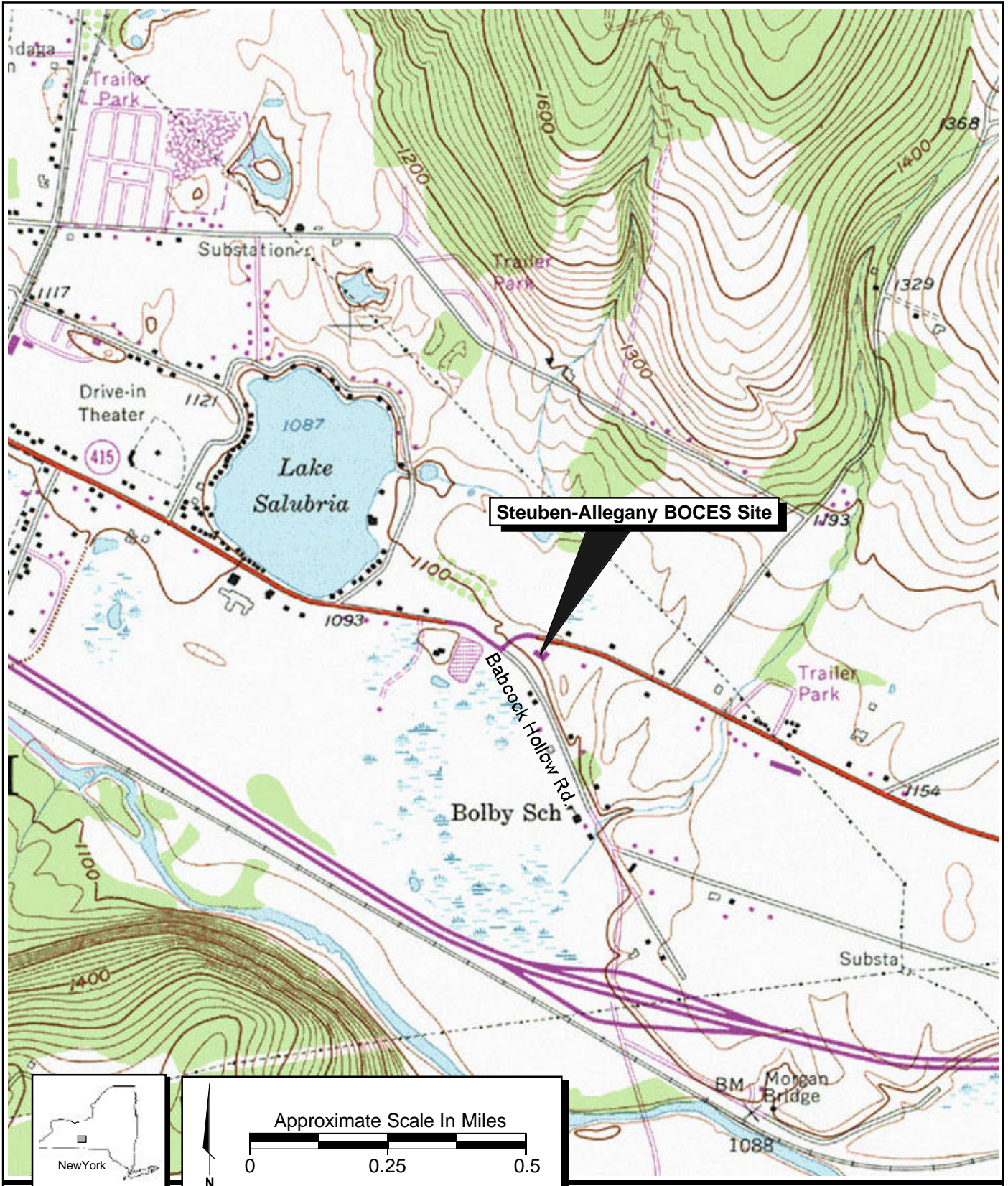
1 = Available data indicates that trace concentrations (<1.7 µg/L) of other VOCs have been detected in private wells (complete analytical reports were not available for all samples). VOCs detected include 1,1-dichloroethane, 1,1-dichloroethene, trichloroethene and 1,4-dichlorobenzene.

2 = Samples were collected by the New York State Department of Health, except samples collected on 10/29, 10/30/01 and 9/24/02, which were collected by Harding Lawson Associates.

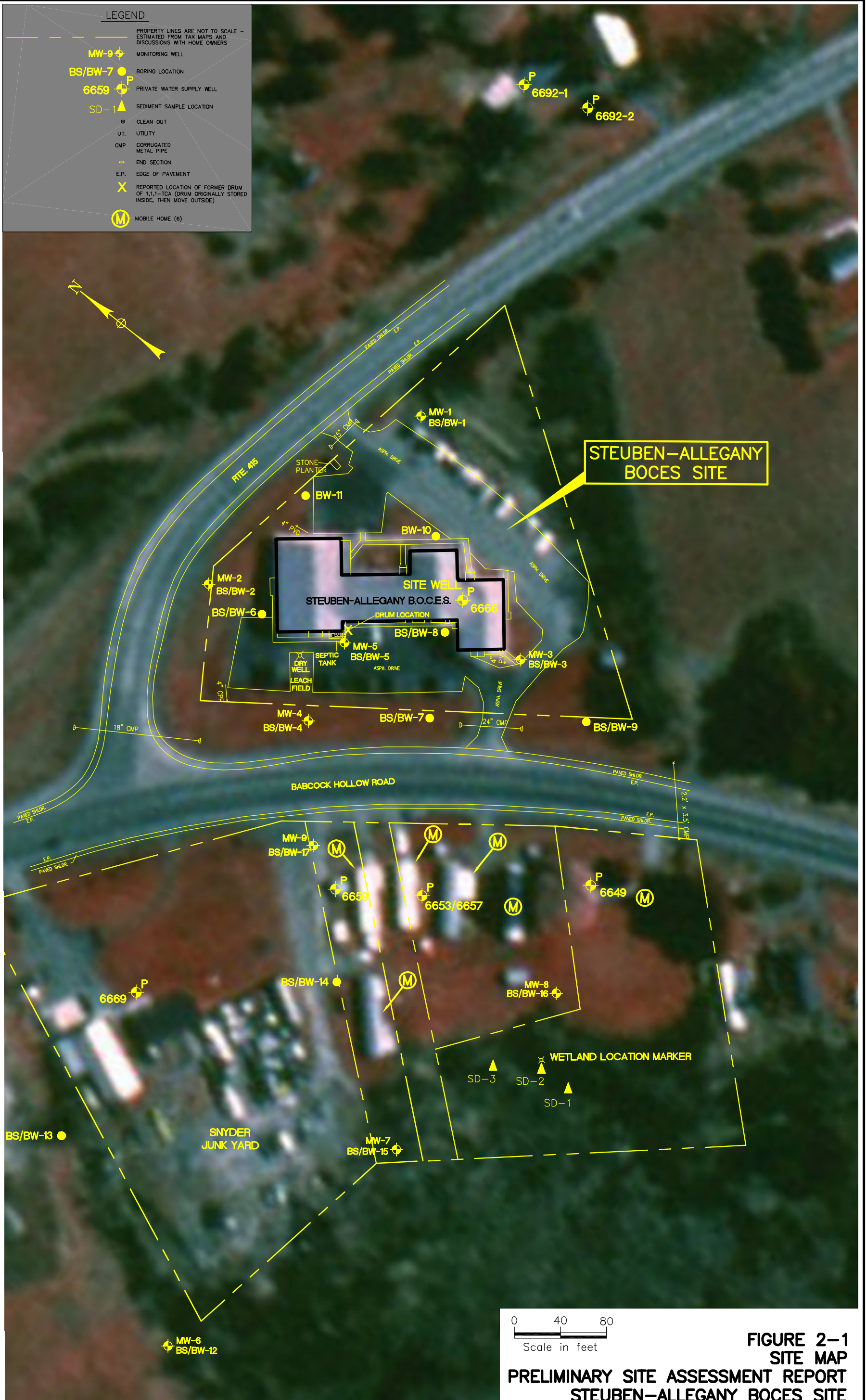
µg/L = micrograms per liter

NA = not available

ND = not detected



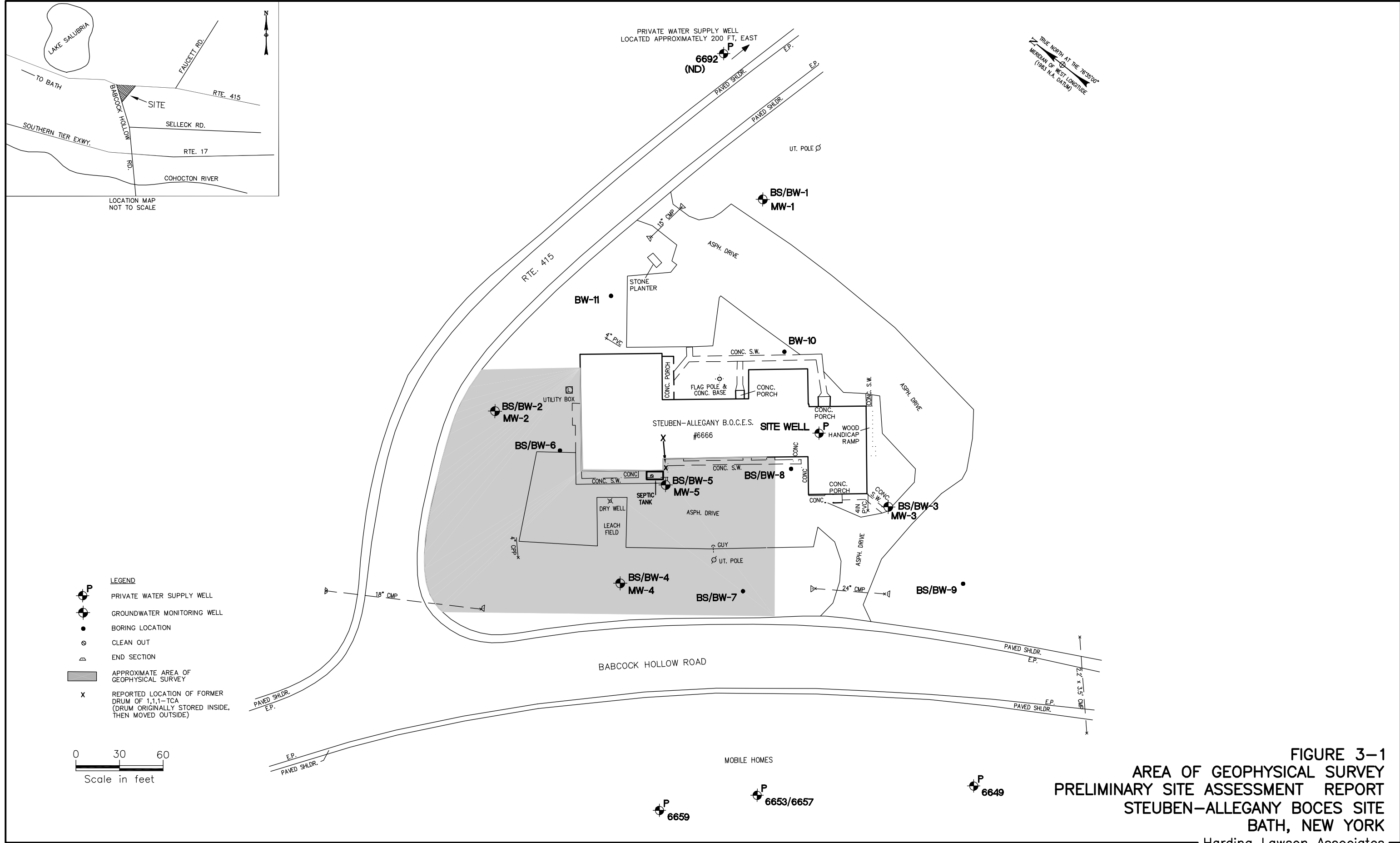
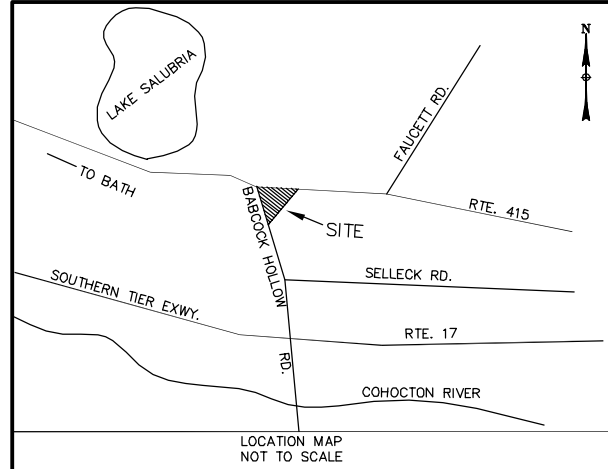
**FIGURE 1-1**  
**SITE LOCATION**  
**PRELIMINARY SITE ASSESSMENT REPORT**  
**STEBEN-ALLEGANY BOCES SITE**  
**BATH, NEW YORK**



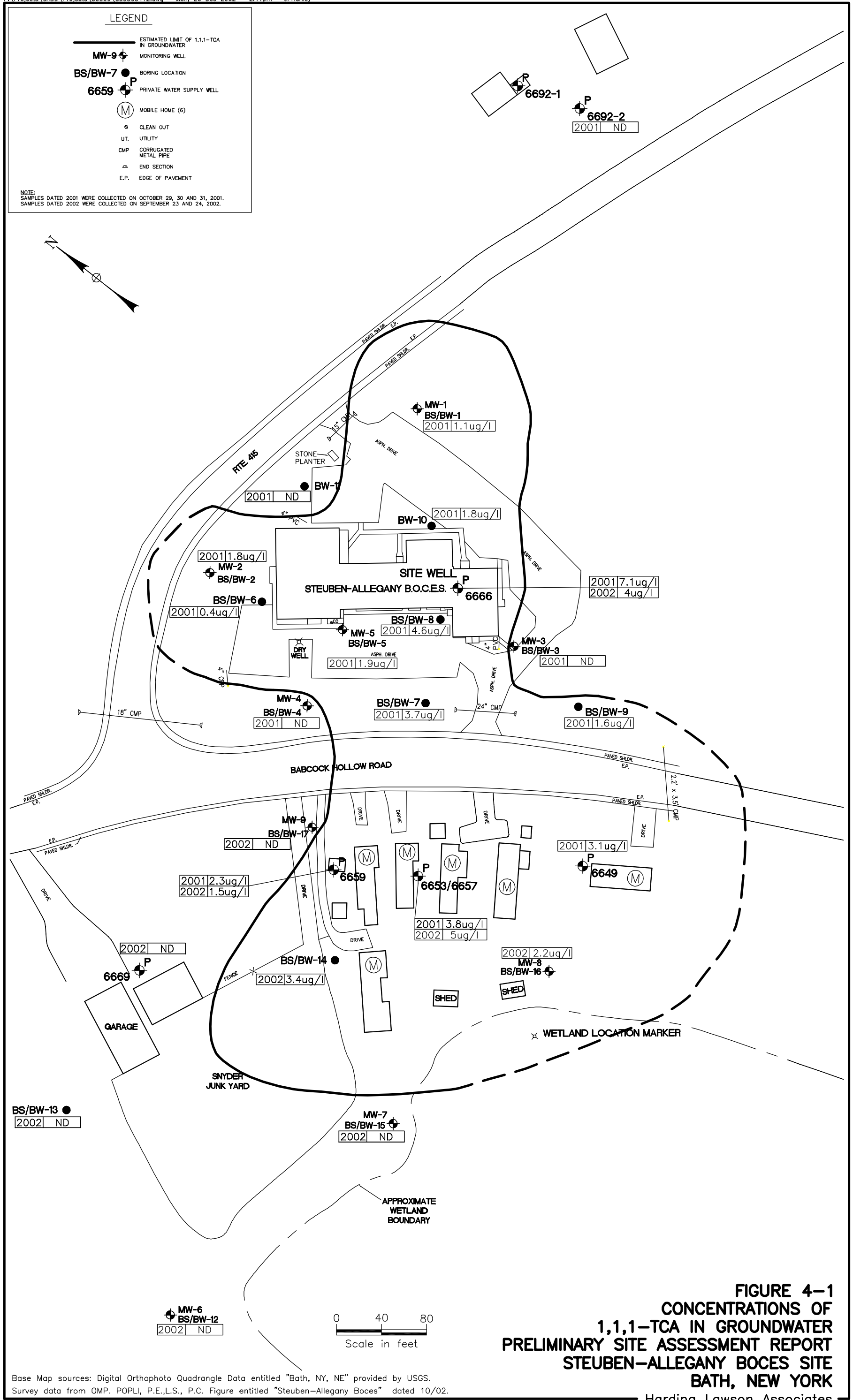
Base Map sources: Digital Orthophoto Quadrangle Data entitled "Bath, NY, NE" provided by USGS.  
Survey data from OMP. POPLI, P.E., L.S., P.C. Figure entitled "Steuben-Allegany Boces" dated 10/02.

**FIGURE 2-1**  
**SITE MAP**  
**PRELIMINARY SITE ASSESSMENT REPORT**  
**STEUBEN-ALLEGANY BOCES SITE**  
**BATH, NEW YORK**  
Harding Lawson Associates



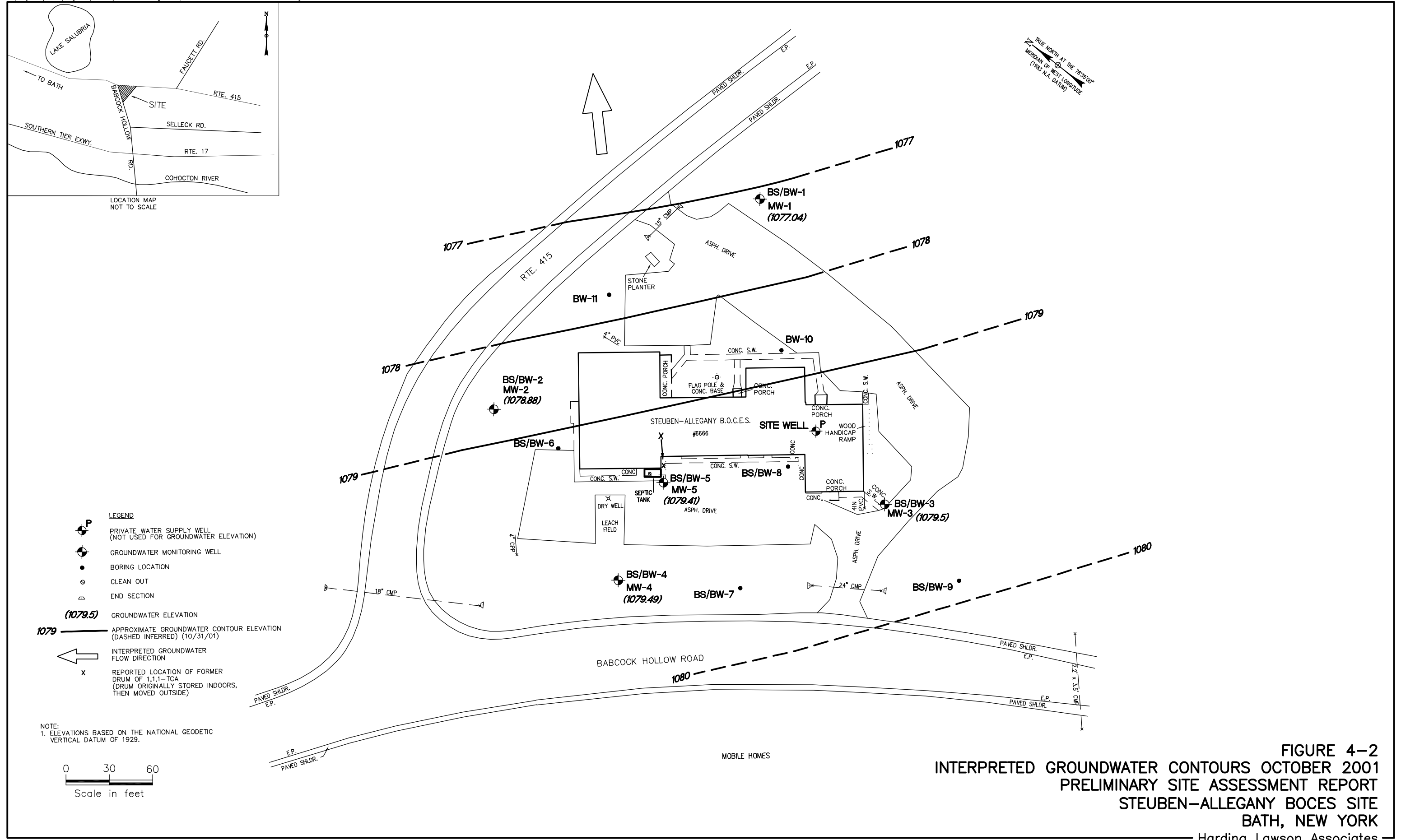


**FIGURE 3-1**  
**AREA OF GEOPHYSICAL SURVEY**  
**PRELIMINARY SITE ASSESSMENT REPORT**  
**STEBEN-ALLEGANY BOCES SITE**  
**BATH, NEW YORK**

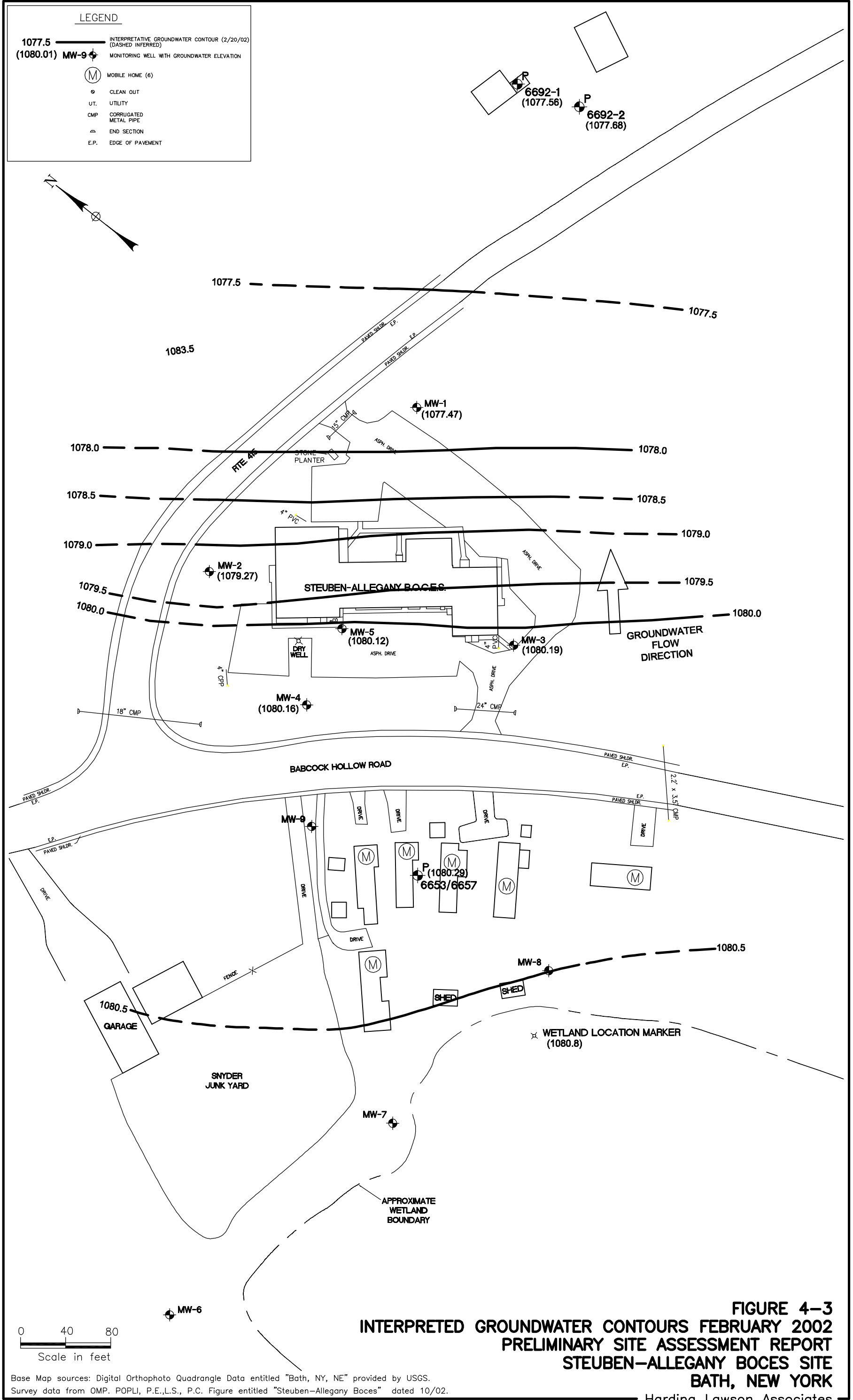


**FIGURE 4-1**  
**CONCENTRATIONS OF**  
**1,1,1-TCA IN GROUNDWATER**  
**PRELIMINARY SITE ASSESSMENT REPORT**  
**STEBEN-ALLEGANY BOCES SITE**  
**BATH, NEW YORK**

Base Map sources: Digital Orthophoto Quadrangle Data entitled "Bath, NY, NE" provided by USGS.  
 Survey data from OMP, POPLI, P.E., L.S., P.C. Figure entitled "Steuben-Allegany Boces" dated 10/02.

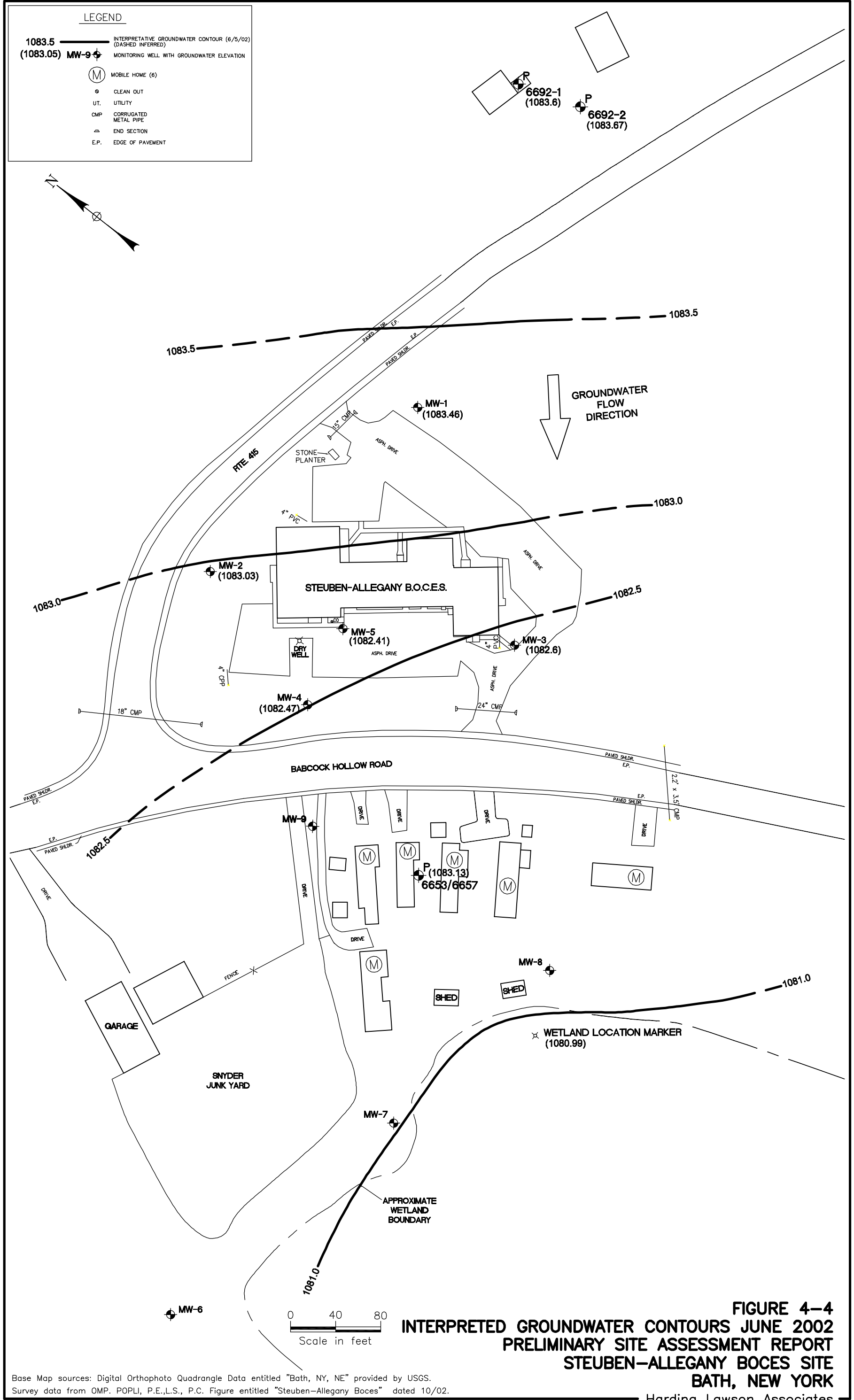


**FIGURE 4-2**  
**INTERPRETED GROUNDWATER CONTOURS OCTOBER 2001**  
**PRELIMINARY SITE ASSESSMENT REPORT**  
**STEBEN-ALLEGANY BOCES SITE**  
**BATH, NEW YORK**  
 Harding Lawson Associates



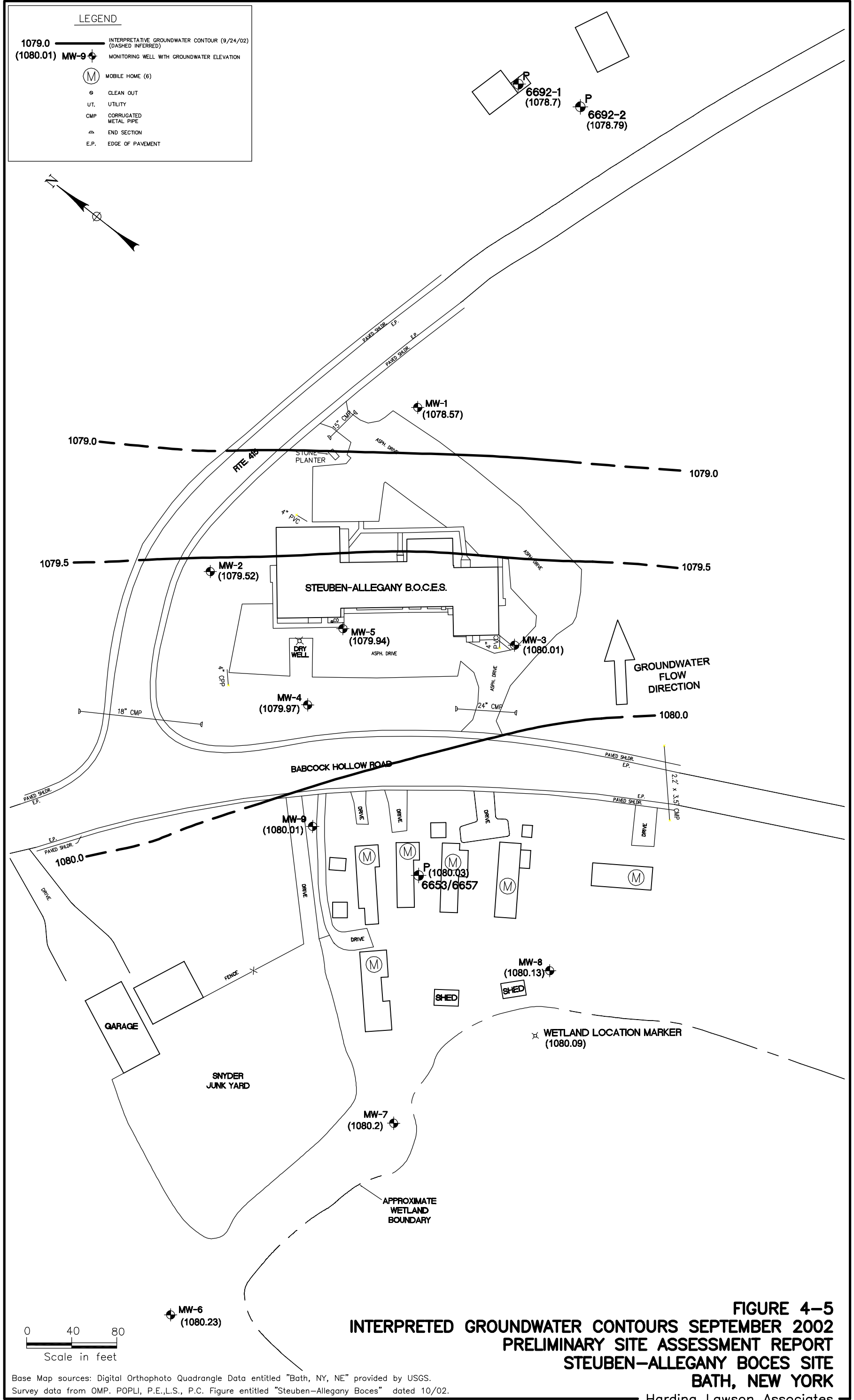
**FIGURE 4-3**  
**INTERPRETED GROUNDWATER CONTOURS FEBRUARY 2002**  
**PRELIMINARY SITE ASSESSMENT REPORT**  
**STEUBEN-ALLEGANY BOCES SITE**  
**BATH, NEW YORK**

Base Map sources: Digital Orthophoto Quadrangle Data entitled "Bath, NY, NE" provided by USGS.  
 Survey data from OMP, POPLI, P.E., L.S., P.C. Figure entitled "Steuben-Allegany Boces" dated 10/02.



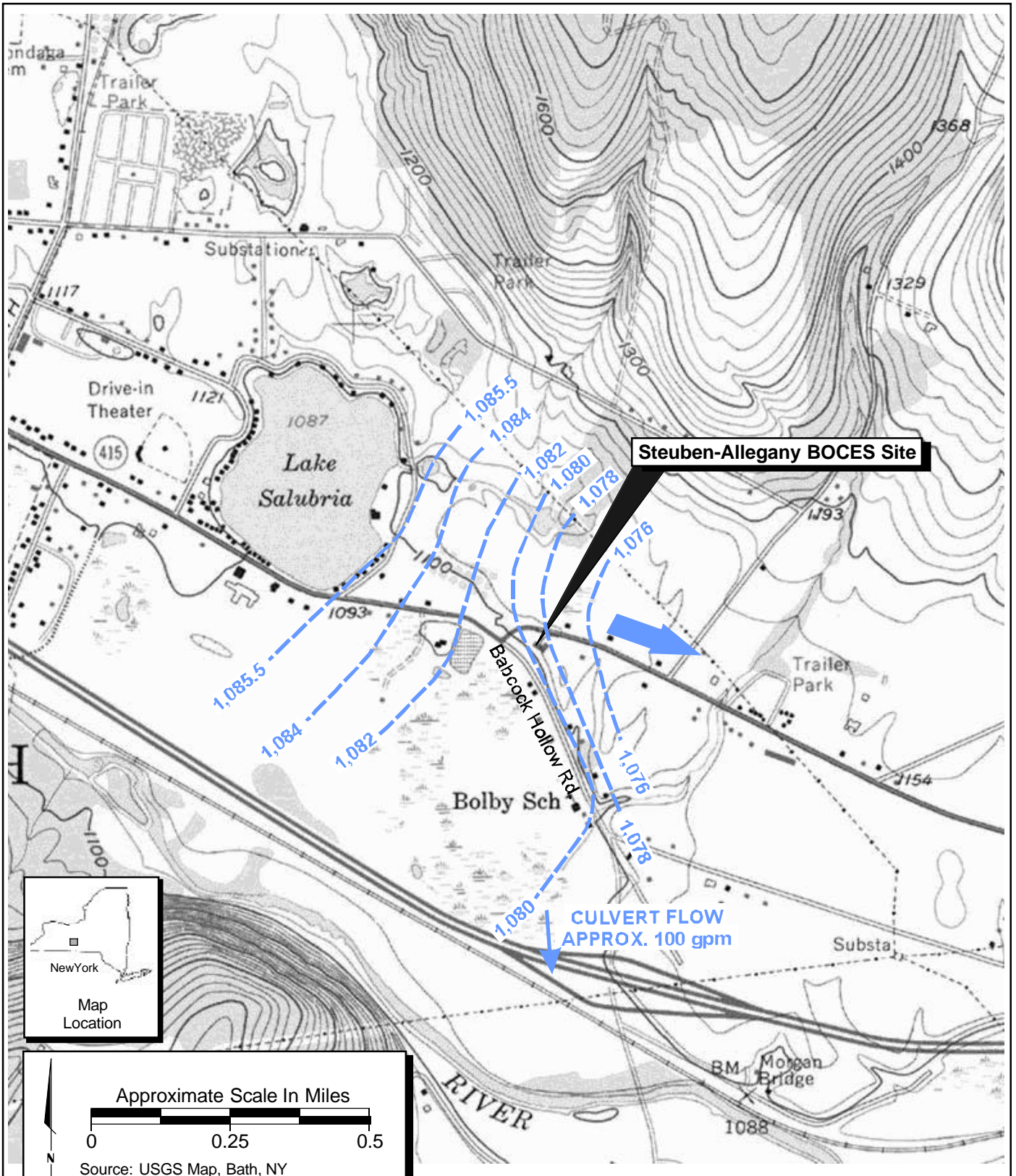
**FIGURE 4-4**  
**INTERPRETED GROUNDWATER CONTOURS JUNE 2002**  
**PRELIMINARY SITE ASSESSMENT REPORT**  
**STEUBEN-ALLEGANY BOCES SITE**  
**BATH, NEW YORK**  
 Harding Lawson Associates

Base Map sources: Digital Orthophoto Quadrangle Data entitled "Bath, NY, NE" provided by USGS.  
 Survey data from OMP, POPLI, P.E.,L.S., P.C. Figure entitled "Steuben-Allegany Boces" dated 10/02.



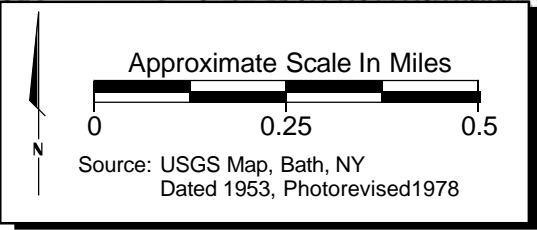
**FIGURE 4-5**  
**INTERPRETED GROUNDWATER CONTOURS SEPTEMBER 2002**  
**PRELIMINARY SITE ASSESSMENT REPORT**  
**STEUBEN-ALLEGANY BOCES SITE**  
**BATH, NEW YORK**

Base Map sources: Digital Orthophoto Quadrangle Data entitled "Bath, NY, NE" provided by USGS.  
 Survey data from OMP, POPLI, P.E., L.S., P.C. Figure entitled "Steuben-Allegany Boces" dated 10/02.



**Steuben-Allegany BOCES Site**

**CULVERT FLOW  
APPROX. 100 gpm**

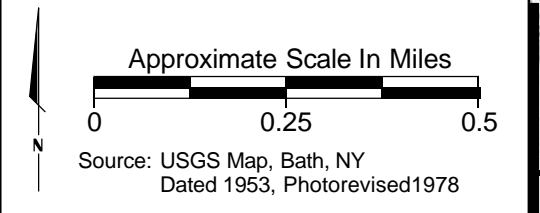
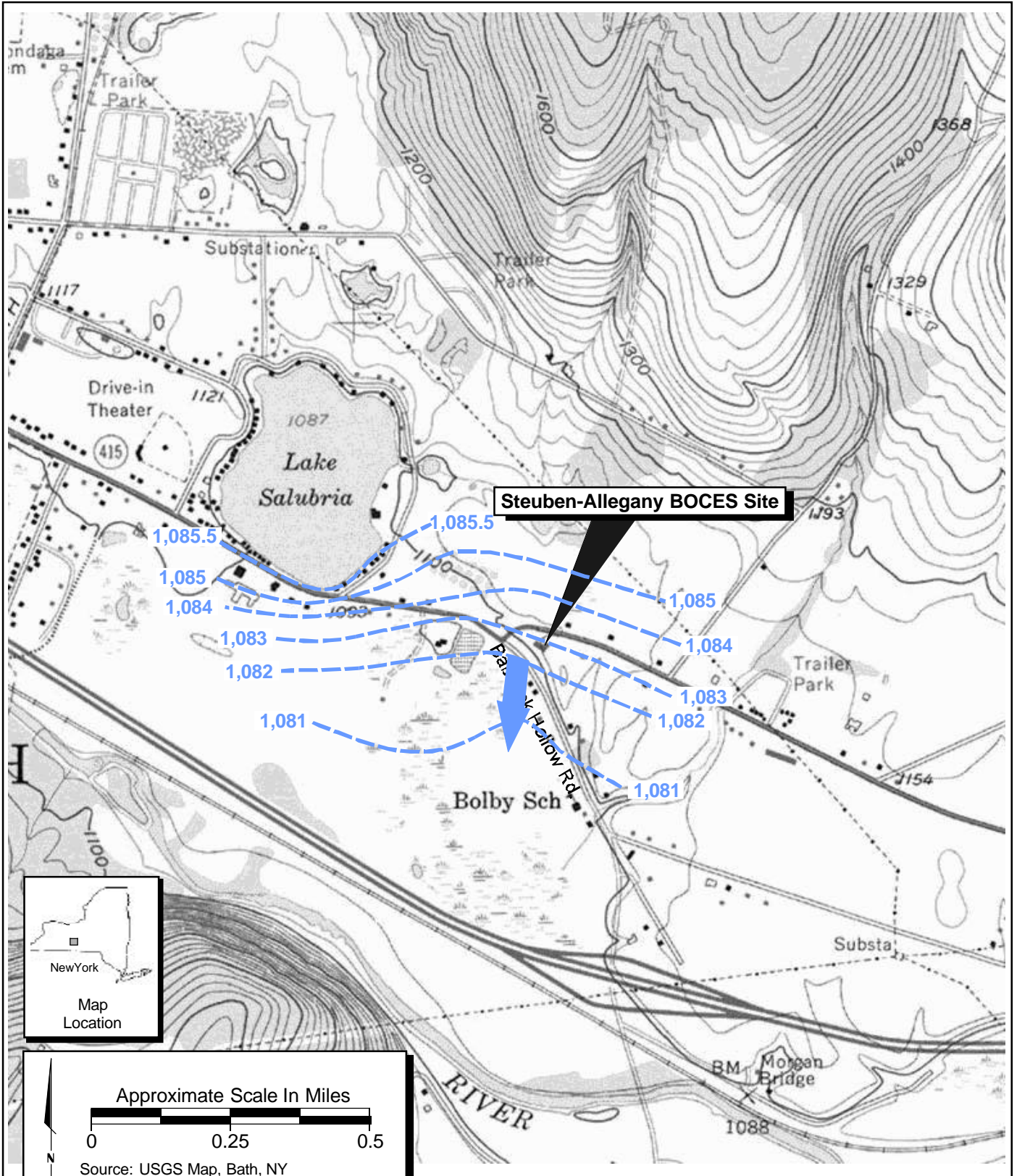


**Legend**

- - - 1,085.5 Potentiometric surface contour based on field measurements collected on 2/20/02
- Direction of flow

**FIGURE 4-6  
CONCEPTUAL POTENTIOMETRIC SURFACE FEBRUARY 2002  
PSA REPORT  
STEBEN-ALLEGANY BOCES SITE  
BATH, NEW YORK**

Harding Lawson Associates



**Legend**

- 1,085.5 — Potentiometric surface contour based on field measurements collected on 6/5/02
- Direction of flow

**CONCEPTUAL POTENTIOMETRIC SURFACE JUNE 2002  
PSA REPORT  
STEBEN-ALLEGANY BOCES SITE  
BATH, NEW YORK**

Harding Lawson Associates