Stratford Army Engine Plant
Restoration Advisory Board (RAB)
Meeting May 6, 1999

The Stratford Army Engine Plant (SAEP) which is proceeding with closure action under provisions of the Base Realignment and Closure Act (BRAC) of 1995 will hold a Restoration Advisory Board (RAB) on May 6, 1999 at 7p.m. in Room 22, Stratford Army Engine Plant. The meeting is open to the public. Parking is in the West Lot and entry through the main guard station.

Stratford Army Engine Plant
Restoration Advisory Board (RAB)
Meeting May 6, 1999

AGENDA

1. Welcome, opening remarks, introductions, announcements, old business.
2. Update on Chrome Room Response Action by HLA
3. Update on Progress of RI/FS by URS Greiner Woodward Clyde.
4. Discussion regarding reuse of installation
5. Open forum, next meeting, adjourn.

For additional information call the SAEP BRAC office (John Burleson) at 385-4316 or Margarita Hartley Moore, RAB Community Co-Chairperson at Redacted - Privacy Act.

next mtg Aug 5th

RAB MEETING – MAY 6, 1999

SIGN-IN SHEET

Rod Pendleton	HLA
Karen Arnold	HLA
Dorothy Bossio	HLA
Beth Shields	COE
Phil Durgin	COE
Ken Feathers	CTDEP
John T. Burleson	TACom
Debbie Gallo	RAB Sec'y
Bob Wolff	URSGWC
STAN SILVERSTEIN	RAB Member
Meghan Cassidy	EPA
Fred HYATT	DOD BTC
JIM OTTO	RAB
Janet Carlucci	RAB
PHILIP KATZ	RAB
ELAINE O'KEEFE	RAB
Margaret Nunn	RAB
Marina Stewart	RAB

STRATFORD ARMY ENGINE PLANT (SAEP)
RESTORATION ADVISORY BOARD (RAB)

MEETING MINUTES

May 6, 1999

The SAEP Restoration Advisory Board conducted a Regular Meeting on Thursday, May 6, 1999 at 7:00 p.m. in Room 22 of the Stratford Army Engine Plant, 550 Main St., Stratford, pursuant to notice duly given.

Call to Order: The meeting was called to order at 7:07 p.m.
Presiding: Margarita Hartley-Moore, Community Co-Chairman
John Burleson, Community Co-Chairman
In Attendance: J. Otto, J. Carlucci, E. O'Keefe, M. Stewart, S. Silverstein, F. Hyatt, P. Katz
Members Absent: L. Perlmutter, F. Gerarden, J. Terceno, A. deMello
Others in Attendance: F. Hyatt, D. Bossio, K. Arnold, R. Pendleton, B. Shields, P. Durgin, B. Wolff, K. Feathers, M. Cassidy

1. Welcome, Opening Remarks, Introductions, Announcements, Old Business:

a) J. Burleson introduced the following:
°Phil Durgin and Beth Shields (COE)
°Rod Pendleton and Karen Arnold (HLA)
°Dottie Bossio (HLA)
°Bob Wolff (Woodward Clyde)

2. Update on Chromium Plating Room Response Action by HLA: R. Pendleton gave a presentation covering the following points (with handouts).

°Project Elements
°Chromium in Groundwater
°VOCs in Groundwater
°Remaining Investigation Tasks
°Remaining Engineering Tasks

°Facility maps included in handout showing (1) boring locations; (2) geoprobe depths; (3) VOCs in groundwater (excedents).

3. Update on Progress of RI/FS (URS Greiner-Woodward Clyde): B. Wolff reviewed the following accomplishments:

°Showed sample of bedrock core taken at 62'.
°Soil - field actions being evaluated and put into database.
°TCE - 3 locations of exceedence (highest at east side of Bld. 15).
°Other compounds also in exceedence.
°Groundwater monitoring wells installed in 3/99.
°Building 3 - program similar to one being used in Bld. 2.
°Eco program to begin 5/10/99 - boat will be launched to collect fish, invertebrates, sediment, surface water.
°Photos shown of process in installing monitoring wells on site.
°Real-time data system on site for sampling tests (HLA and WC).

4. Discussion regarding reuse of facility: F. Hyatt discussed the following matters:

°OSD Community Conference attended by members of LRAPAC. DoD is focusing on acceleration of BRAC process, environmental issues, transfers of sites.

°Army Corps of Engineers kickoff meeting regarding statewide appraisal will begin week of 5/10/99. This step is necessary before the site can be transferred to the Town of Stratford or a selected developer.

°Town of Stratford preferred reuse plan - 2 selected developers will make a presentation to the Town of Council on 5/12/99 at 6:30 p.m. (Town Hall Council Chambers).

°Building 6 Aerospace Museum site - Business Plan to be presented on 5/11/99 at LRAPAC meeting.

°DoD quarterly meeting with LRA and staff - tentatively scheduled for last week of June '99.

°FAA has forwarded PBC request from City of Bridgeport for south parking lot (currently in Washington D.C. for review). Airport EIS comments incomplete at this time.

Discussion followed regarding FAA request for PBC on portion of south parking lot, and the timeline within the process.

°Interim leases update: (a) Index Corp. has requested office space in Building 2 (northease section); and (b) W.B. Meyer has requested 40,000 s.f. in Building 2 (northeast section), which is inside the WARNACO envelope in FOSTL.

5. Open forum, next meeting:

°Discussion of distribution of next RAB Newsletter (K. Arnold).

°Next RAB meeting will be Thursday, August 5, 1999.

6. Adjournment: There being no further business, the meeting adjourned at 8:40 p.m.

Respectfully submitted,

Debbie Gallo

Debbie Gallo, Recording Secretary

Status of Chromium Plating Facility Project

STRATFORD ARMY ENGINE PLANT

Harding Lawson Associates
May 6, 1999

Project Elements

- Facility Decontamination
- Field Investigation
- Bench-Scale Testing
- EE/CA
- Design
- Removal Action

Chromium in Groundwater

- Plating solution infiltrated through cracks/pathways in the Chromium Plating Facility concrete floor, contaminating concrete and underlying vadose zone soils
- The primary source area for Cr(VI) appears to be the northern corner of the Chromium Plating Facility
- The lack of significant horizontal groundwater movement has limited the horizontal migration of Cr(VI) in groundwater

Chromium in Groundwater (cont.)

- Dense plating solutions were driven to current depths by density-driven flow, and excess head from infiltration beneath the floor
- Slight changes in stratigraphy (to finer-grained materials) at approximately 20 to 30 feet bgs caused lateral spreading of the Cr(VI)
- The horizontal and vertical extent of Cr(VI) in groundwater has been adequately delineated

VOCs in Groundwater

- The distribution of VOCs is more widespread than Cr(VI) indicating VOCs have larger, or multiple source areas
- There appears to be two primary source areas for TCE in groundwater: near the center of the Chromium Plating Facility, and in the vicinity of the northern end of Building B-48
- The PCE source areas appear to coincide with those for TCE

VOCs in Groundwater (cont.)

- The highest concentration of 1,1-DCE was detected at GeoProbe exploration WP-99-48, on the north-central side of building B-2; however, 1,1-DCE is present in shallow groundwater over much of the north-central portion of SAEP (see Figure 13)
- The source for 1,1,1-TCA appears to be in the vicinity of former degreasers located in the north-central portion of Building B-2 near GeoProbe exploration WP-99-48 (see Figure 13)

VOCs in Groundwater (cont.)

- Dense solvents were driven to current depths by density-driven flow, and excess head from infiltration beneath the floor
- Slight changes in stratigraphy (to finer-grained materials) at approximately 20 to 30 feet bgs caused lateral spreading of the solvents
- The highest concentrations of VOCs are located in the fine sand and silt stratigraphic unit approximately 20 to 40 feet bgs

VOCs in Groundwater (cont.)

- Concentrations of VOCs appear to decrease dramatically in the area of the intertidal flats
- The vertical extent of VOCs in groundwater has not been adequately delineated due to limitations of the GeoProbe sampling method

Remaining Investigation Tasks

- Use a more powerful exploration technique, such as a cone penetrometer or screened augers, to penetrate the fine sand and silt stratigraphic unit allowing for collection of geologic/stratigraphic data and additional VOC groundwater samples
- Integrate geologic data from ongoing RI field program to interpret contamination areas

Remaining Investigation Tasks (cont.)

- Collect additional groundwater elevation data from ongoing RI field program to assist in interpretation of groundwater flow
- Collect information on utilities (construction details, elevations, etc.) from the SAEP facilities caretaker, IPM, to assist in evaluation of utility impacts to groundwater flow
- Perform a soil vapor survey in areas potentially impacted by shallow groundwater contamination

Remaining Investigation Tasks (cont.)

- Aquifer Testing
- Field Investigation Report (Summer 1999)

Remaining Engineering Tasks

- Treatability Testing
- EE/CA
- Design of Full-Scale Removal Action
- Construction/startup of Full-Scale Removal Action

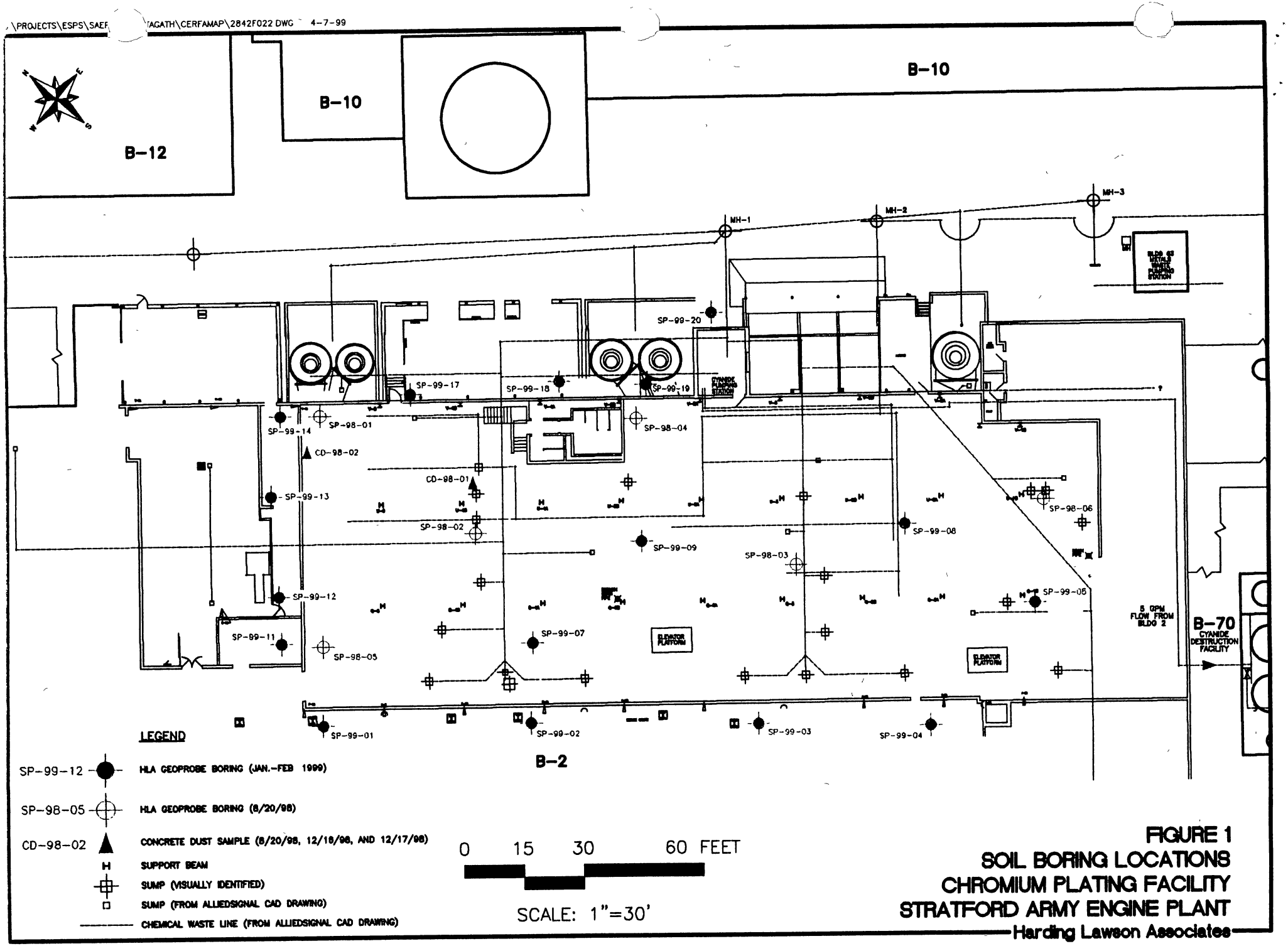

FIGURE 1
SOIL BORING LOCATIONS
CHROMIUM PLATING FACILITY
STRATFORD ARMY ENGINE PLANT
Harding Lawson Associates

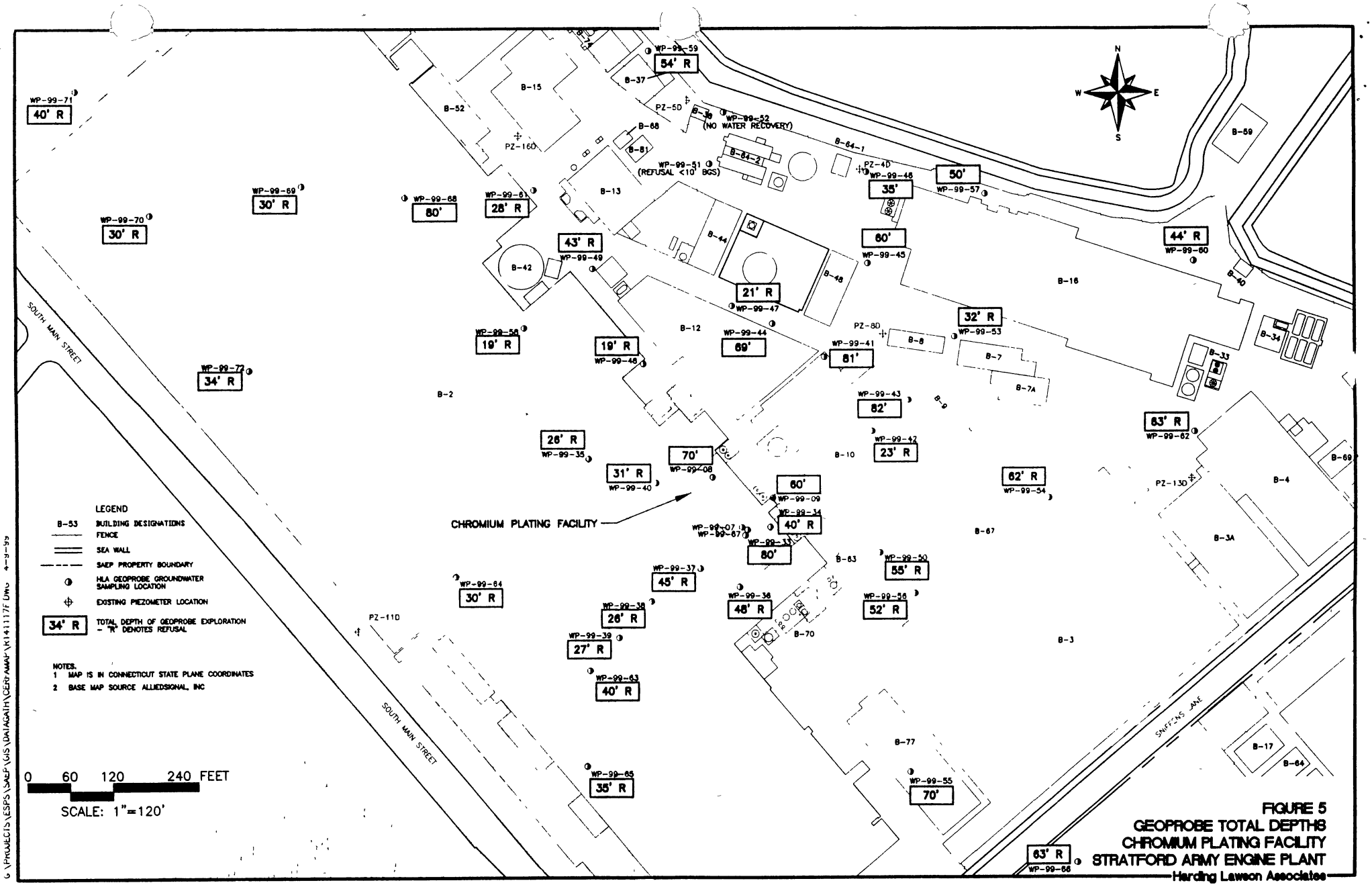

FIGURE 5
GEOPROBE TOTAL DEPTHS
CHROMIUM PLATING FACILITY
STRATFORD ARMY ENGINE PLANT
Harding Lawson Associates

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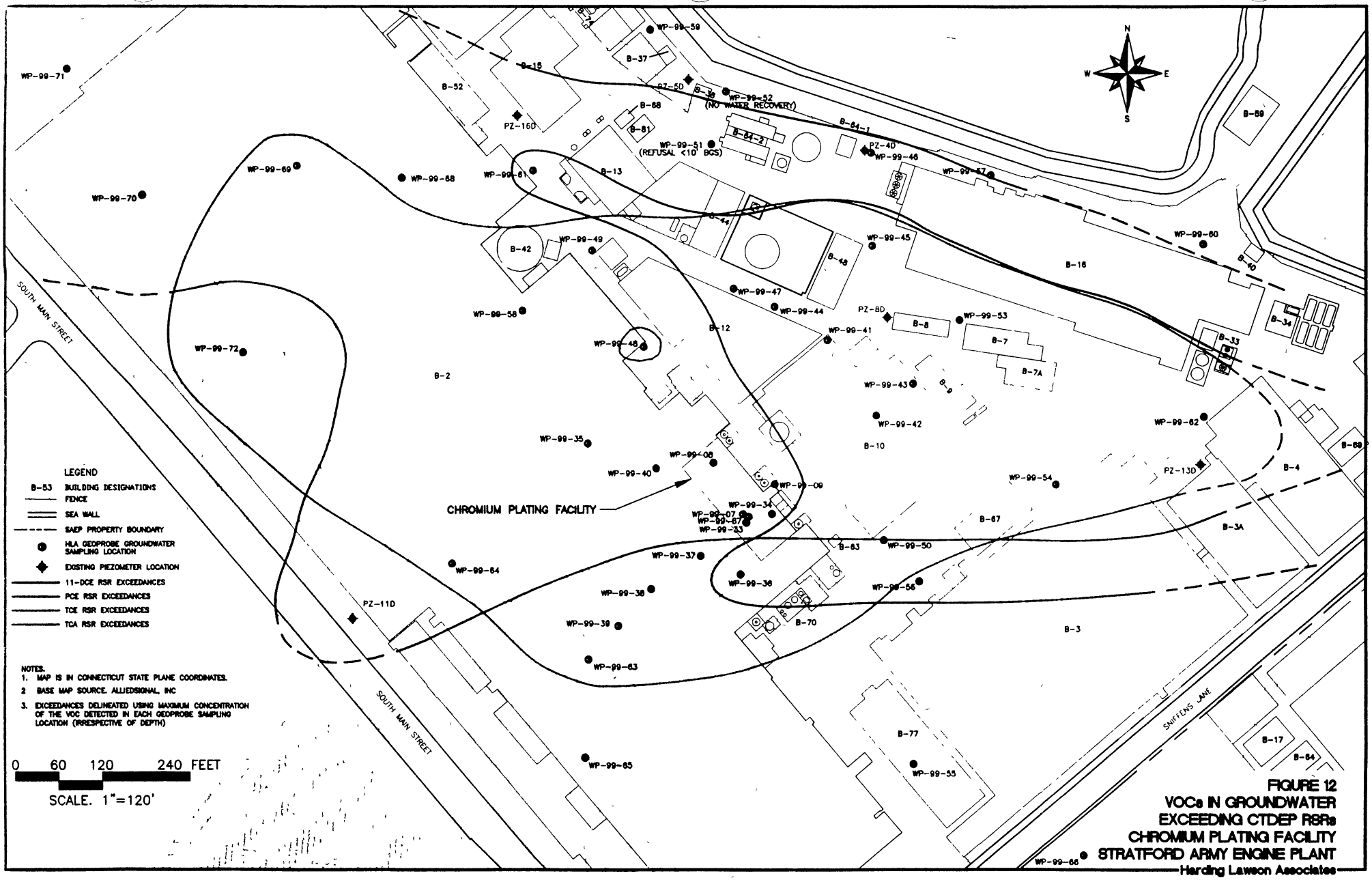


FIGURE 12
VOCs IN GROUNDWATER
EXCEEDING CTDEP RSRs
CHROMIUM PLATING FACILITY
STRATFORD ARMY ENGINE PLANT
Harding Lawson Associates

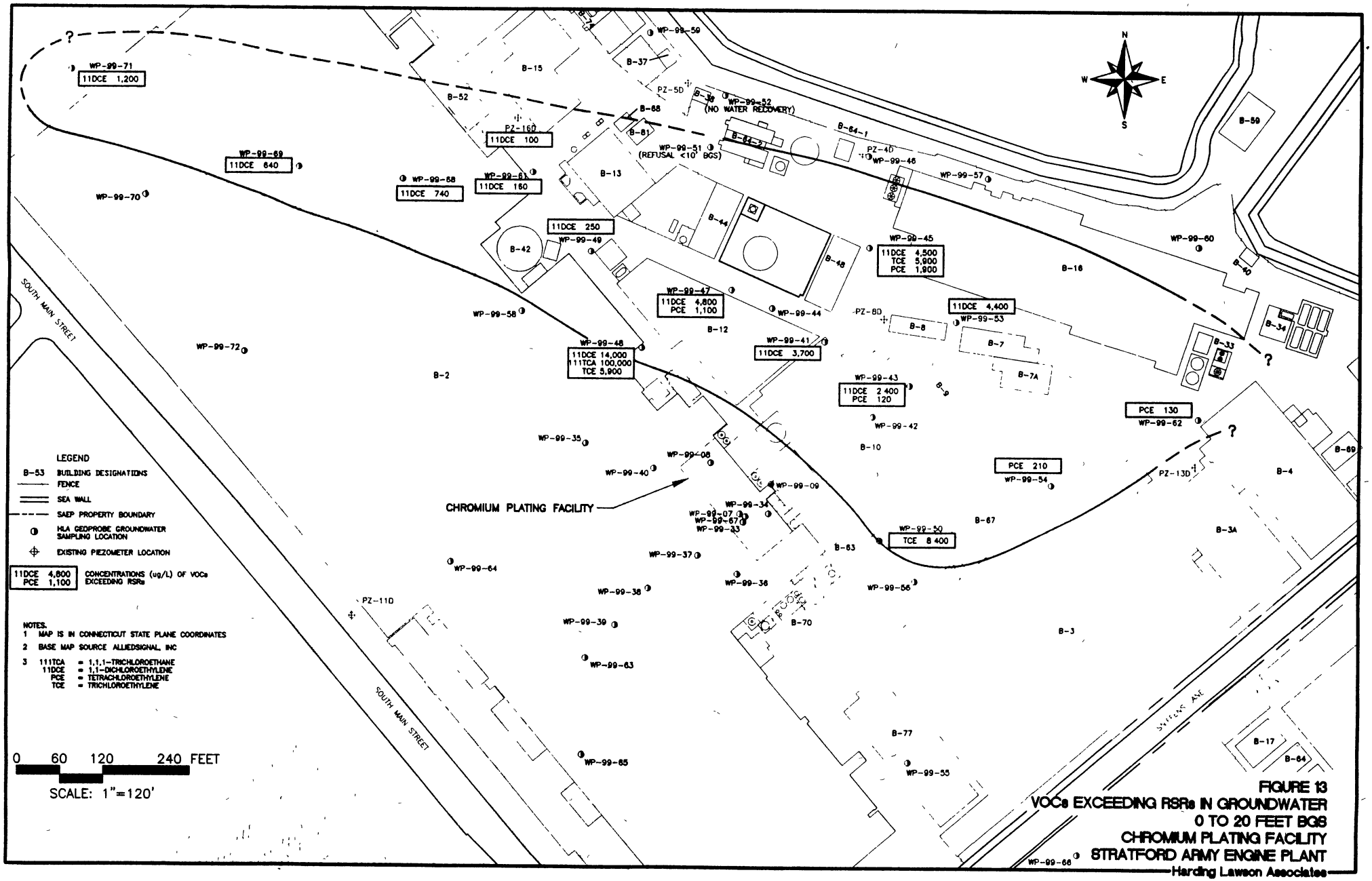


FIGURE 13
VOCs EXCEEDING RSRs IN GROUNDWATER
0 TO 20 FEET BGS
CHROMIUM PLATING FACILITY
STRATFORD ARMY ENGINE PLANT
Harding Lawson Associates

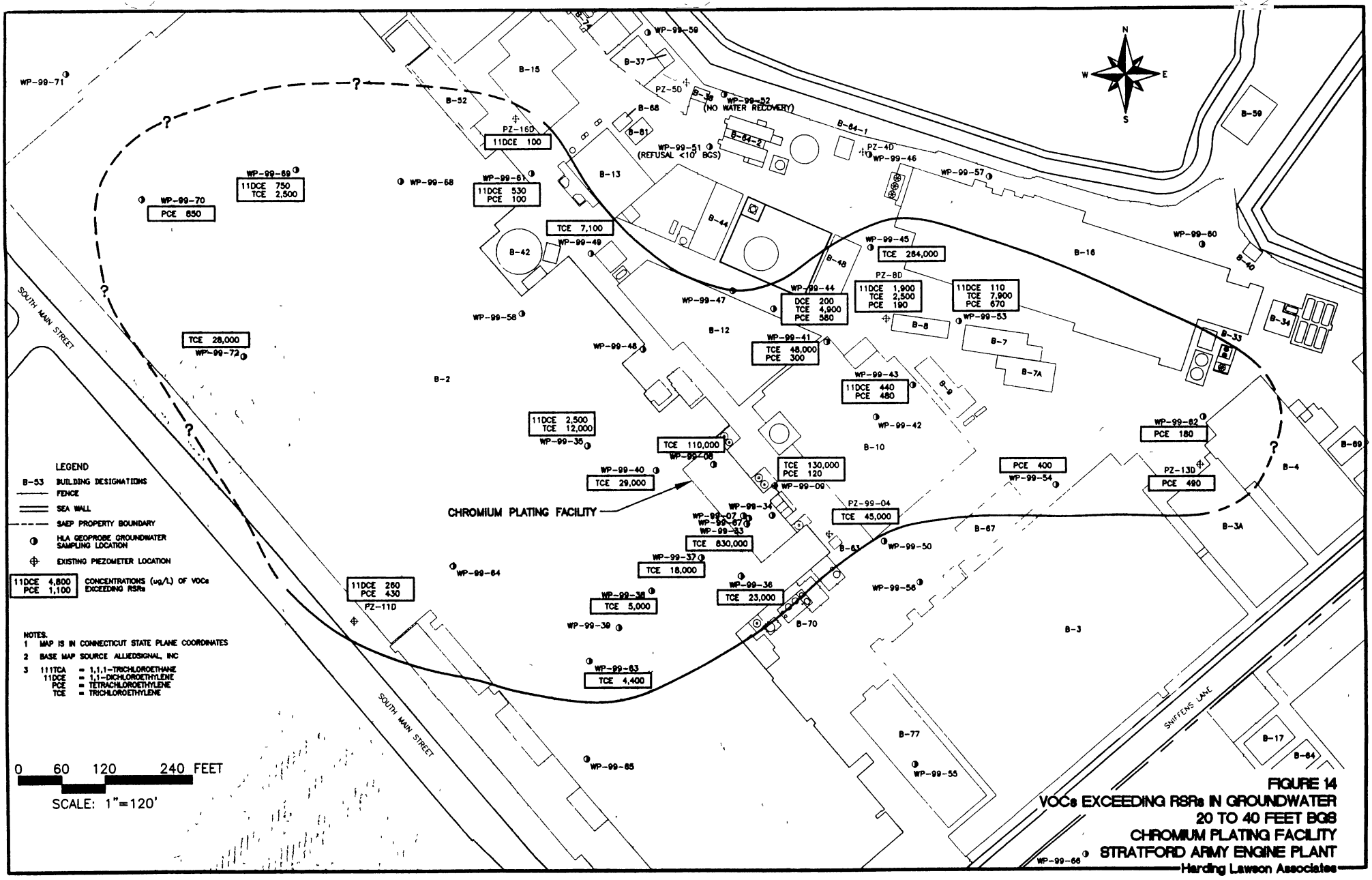


FIGURE 14
VOCs EXCEEDING RSRs IN GROUNDWATER
20 TO 40 FEET BGS
CHROMIUM PLATING FACILITY
STRATFORD ARMY ENGINE PLANT
Harding Lawson Associates

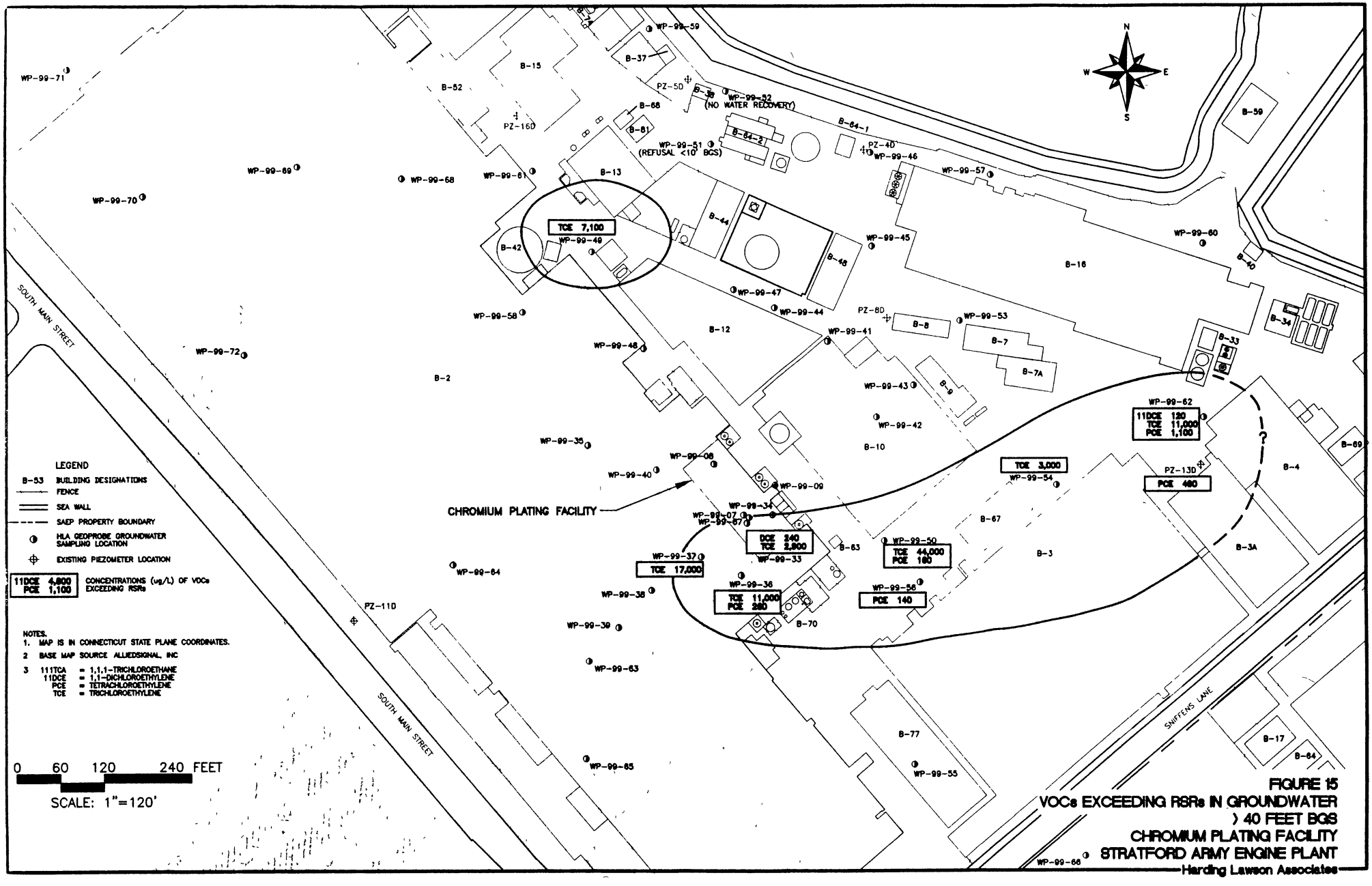


FIGURE 15
VOCs EXCEEDING RSRs IN GROUNDWATER
> 40 FEET BGS
CHROMIUM PLATING FACILITY
STRATFORD ARMY ENGINE PLANT
Harding Lawson Associates

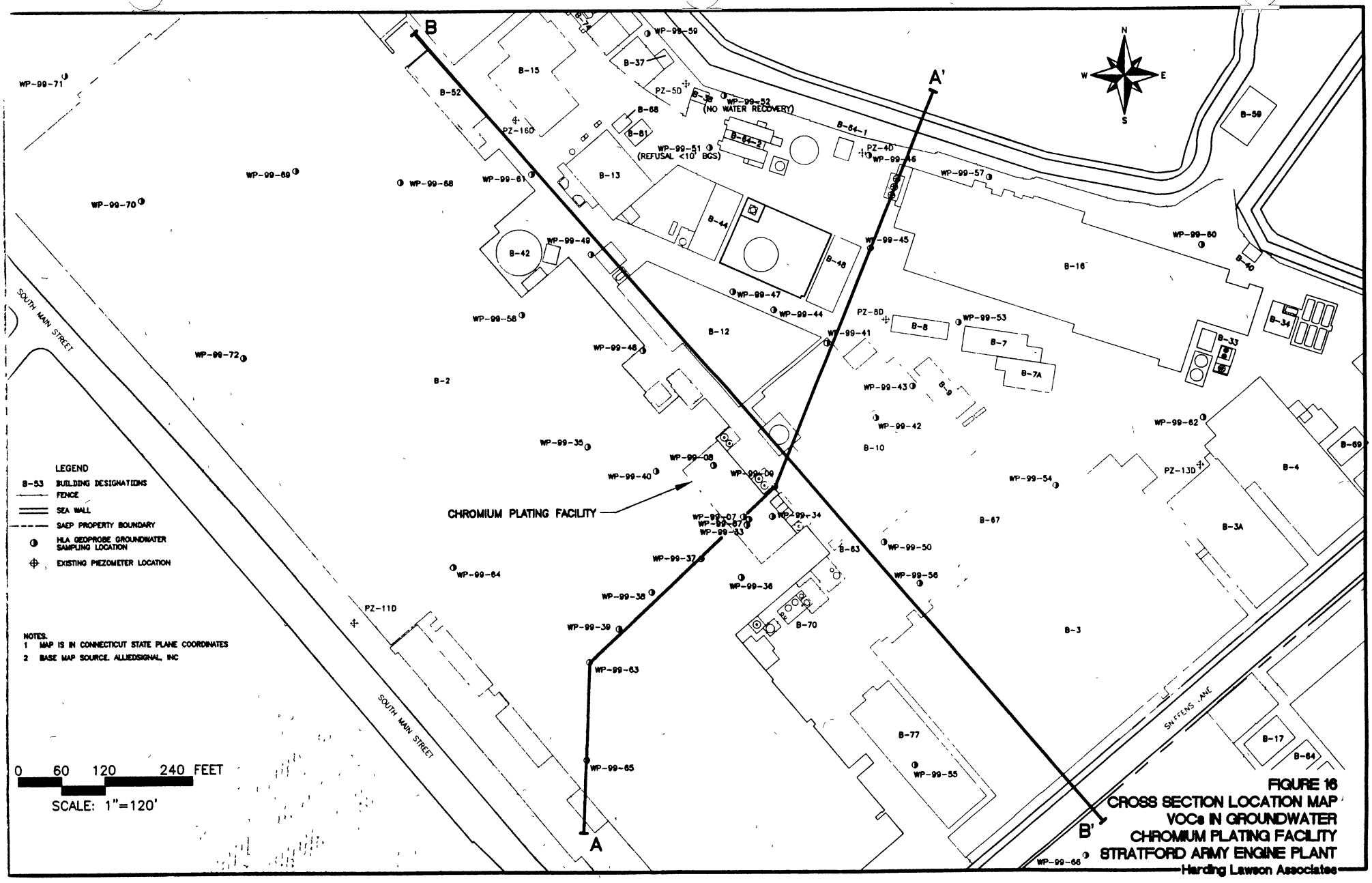
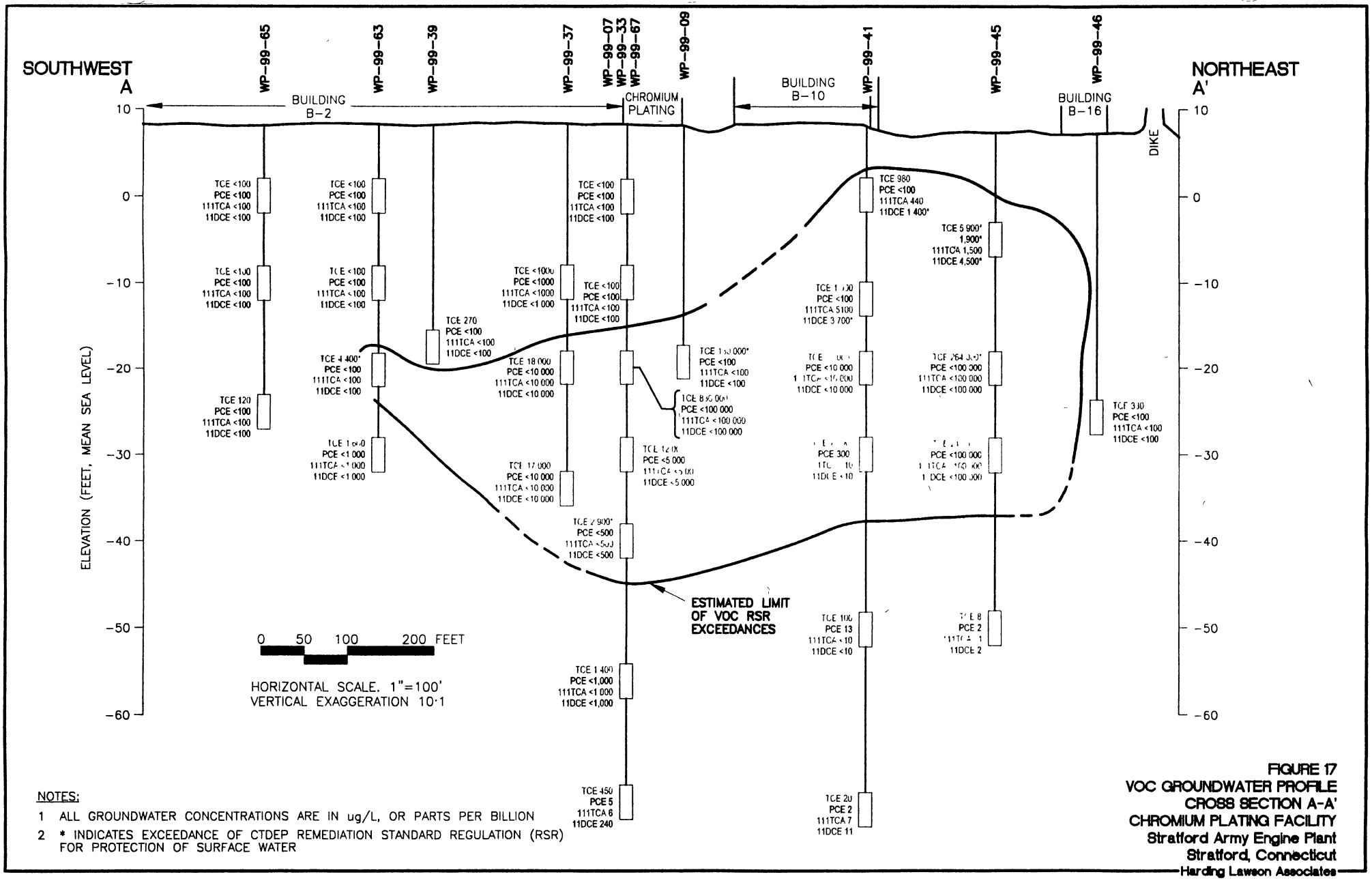


FIGURE 16
CROSS SECTION LOCATION MAP
VOCs IN GROUNDWATER
CHROMIUM PLATING FACILITY
STRATFORD ARMY ENGINE PLANT
Harding Lawson Associates



NOTES:

1 ALL GROUNDWATER CONCENTRATIONS ARE IN ug/L, OR PARTS PER BILLION

2 * INDICATES EXCEEDANCE OF CTDEP REMEDIATION STANDARD REGULATION (RSR) FOR PROTECTION OF SURFACE WATER

FIGURE 17
VOC GROUNDWATER PROFILE
CROSS SECTION A-A'
CHROMIUM PLATING FACILITY
Stratford Army Engine Plant
Stratford, Connecticut
Harding Lawson Associates

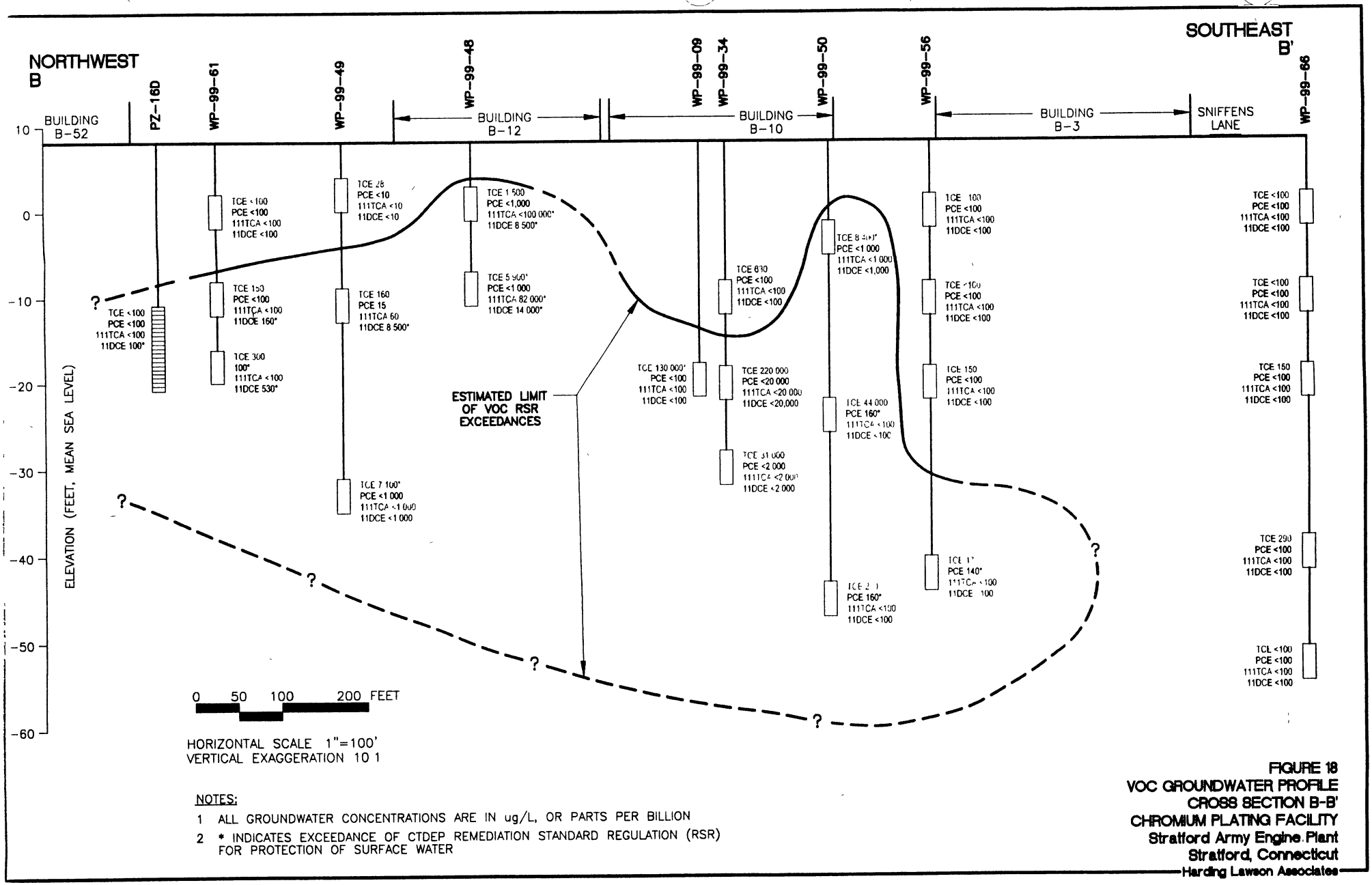


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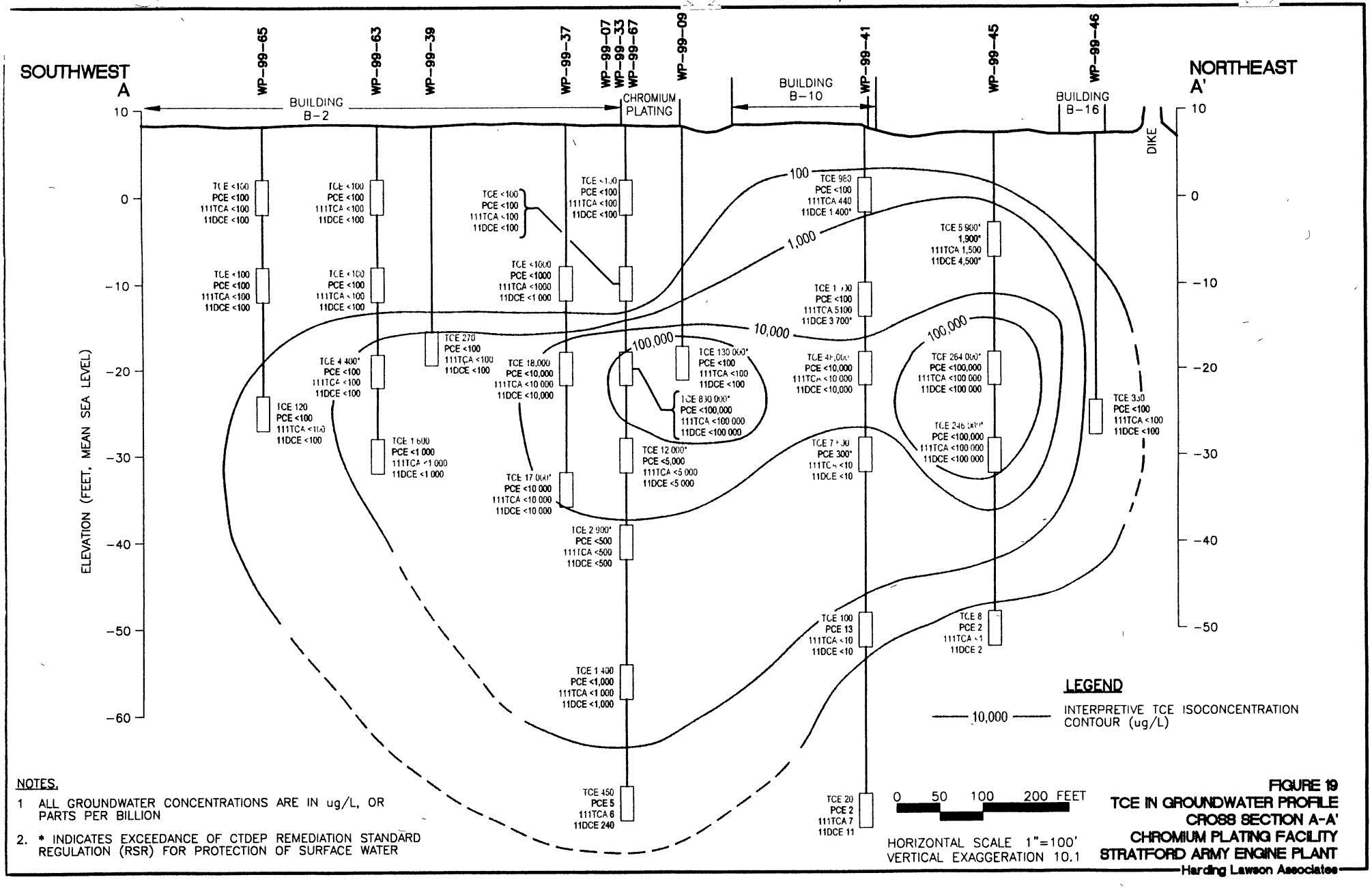
FIGURE 18
VOC GROUNDWATER PROFILE
CROSS SECTION B-B'
CHROMIUM PLATING FACILITY
Stratford Army Engine Plant
Stratford, Connecticut
Harding Lawson Associates



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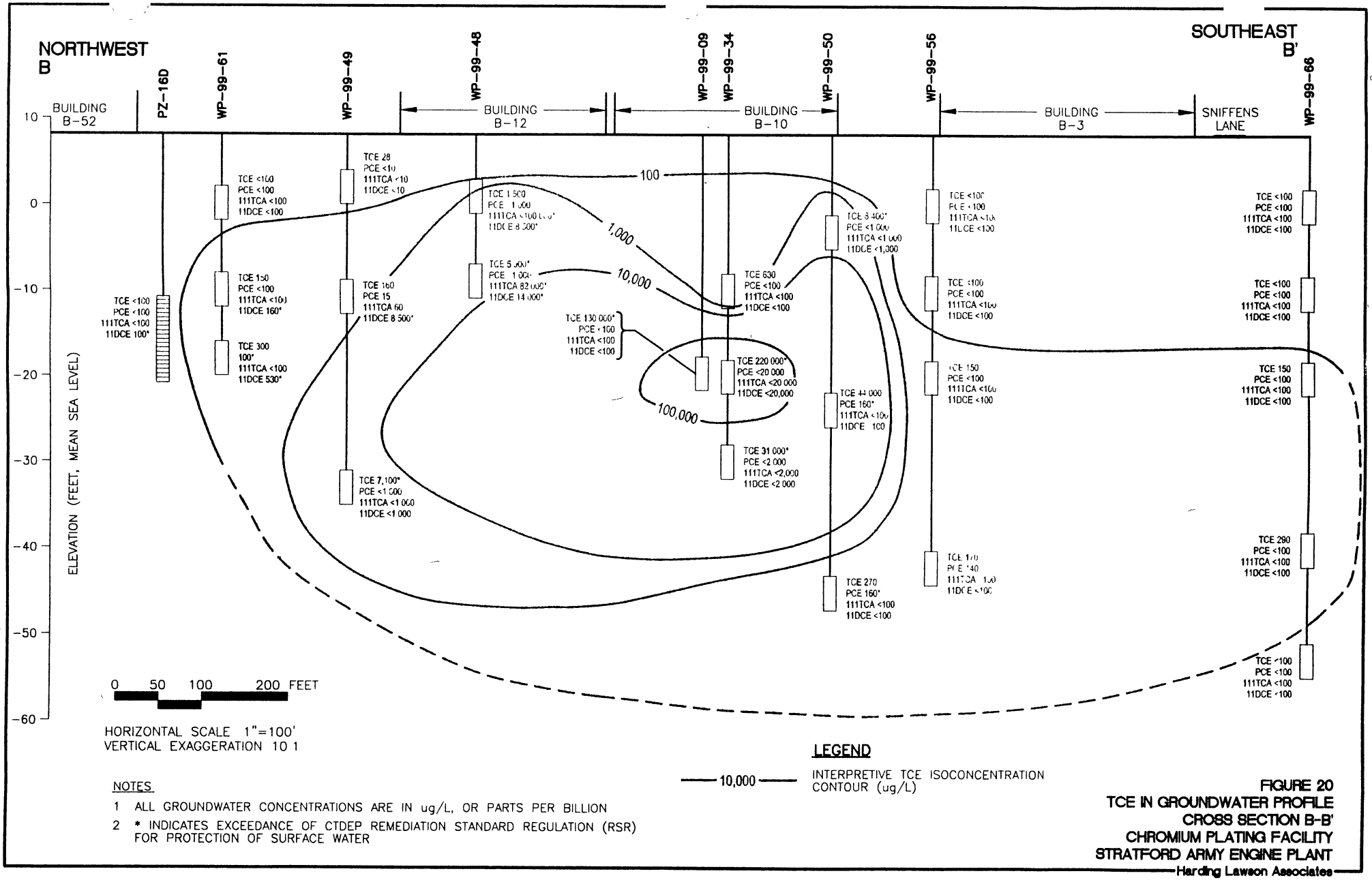
2. * INDICATES EXCEEDANCE OF CTDEP REMEDIATION STANDARD REGULATION (RSR) FOR PROTECTION OF SURFACE WATER

FIGURE 19
TCE IN GROUNDWATER PROFILE
CROSS SECTION A-A'
CHROMIUM PLATING FACILITY
STRATFORD ARMY ENGINE PLANT
Harding Lawson Associates



NOTES

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FIGURE 20
TCE IN GROUNDWATER PROFILE
CROSS SECTION B-B'
CHROMIUM PLATING FACILITY
STRATFORD ARMY ENGINE PLANT
Harding Lawson Associates