



01-1034
SDMS 158409

June 7, 2000

Corporate Environmental Programs
General Electric Company
Pittsfield, MA 01201
JUN 12 2000

BY:.....

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c/o Weston Environmental Engineering
1 Lyman Street
Pittsfield, MA 01201

Bryan Olson
EPA Project Coordinator
U. S. Environmental Protection Agency
EPA New England
One Congress Street, Suite 1100
Boston, MA 02114-2023

**Re: GE Pittsfield/Housatonic Site
DNAPL Investigation: East Street Area 2-South Portion of
Plant Site 1 Groundwater Management Area (GMA) (GECD310)**

Dear Mr. Tagliaferro & Mr. Olson:

Based on discussions with personnel from the United States Environmental Protection Agency (EPA), GE is submitting this proposal to further evaluate the potential presence of dense non-aqueous phase liquid (DNAPL) in the East Street Area 2-South portion of the Plant Site 1 GMA. Specifically, three borings are proposed to be advanced along the top of the bank of the Housatonic River near the 64X oil/water separator.

As you are aware, coal-tar-related DNAPL is present in several existing monitoring wells along the riverbank in this general area and was observed in river sediment during the Removal Action for the Upper ½-Mile Reach of the Housatonic River. As part of that Removal Action, sediments containing coal-tar-related constituents were excavated from portions of remediation areas in the river known as Cell C and Cell D. Furthermore, a 6-inch diameter recovery well was installed within the remediation area to collect any residual DNAPL that may be present following sediment excavation and restoration.

To further evaluate the potential presence of DNAPL on the banks, GE proposes to install three borings on the landward side (i.e. north) of the existing source-control containment barrier, as shown on the attached figure. This barrier, which is approximately 450 feet in length and composed of steel-sheet pile with sealed joints, was installed to supplement ongoing NAPL control measures along the riverbank in this area. The borings will be located approximately 20 feet north of the source-control containment barrier and will be aligned parallel to the barrier with a spacing of approximately 15 feet. The borings will be advanced utilizing a "direct-push" methodology and continuous soil samples will be collected and described (e.g. sample depth, soil type, potential presence of NAPL). The soil samples will be screened with a photo-ionization detector, and a soil-shake test will be performed on any samples, which are observed to contain NAPL, NAPL staining, or sheens.

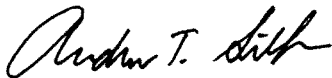
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Depending upon the surface elevation at the proposed locations and the subsurface stratigraphy encountered, it is anticipated that the borings will be drilled to a depth of approximately 25-30 feet. The borings will be advanced to the top of the potential silt confining layer which may exist in this area or to a maximum depth corresponding to an elevation of 955 feet above mean sea level (in the event that the silt layer is not encountered).

GE anticipates that these borings will be initiated within 2 weeks of EPA approval of this proposal and that the results will be submitted 2 weeks following their completion. Along with the investigation results, GE will also submit an evaluation of the potential need for further DNAPL recovery efforts in this area.

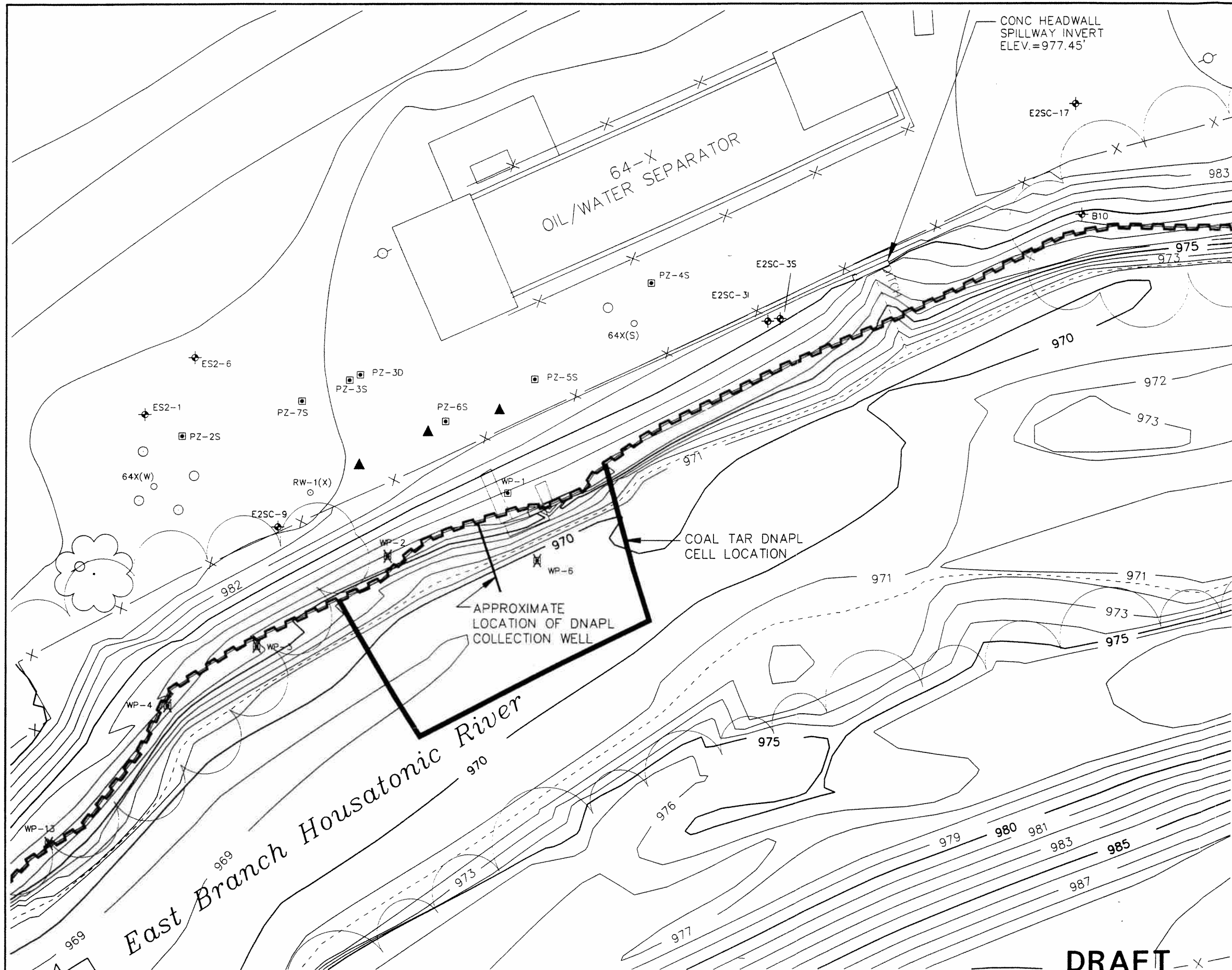
If you have any questions on this matter, please feel free to contact William Horne or me in the GE Pittsfield office.

Very truly yours,



Andrew T. Silfer, P.E.
GE Project Coordinator

cc: T. Conway, EPA
H. Inglis, EPA
R. Goff, USACE
K.C. Mitkevicius, USACE
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Mayor G.S. Doyle
J.R. Bieke, Shea & Gardner
M. Carroll, GE
A. Thomas, GE
W. Horne, GE
J. Novotny, GE
S. Gutter, Sidley & Austin
Public Information Repositories ECL I-P-IV(A) (1)
GE Internal Repositories



CONC HEADWALL
SPILLWAY INVERT
ELEV.=977.45'

64-X
OIL/WATER SEPARATOR

East Branch Housatonic River

COAL TAR DNAPL
CELL LOCATION

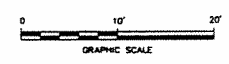
APPROXIMATE
LOCATION OF DNAPL
COLLECTION WELL

LEGEND:

- EXISTING INDEX ELEVATION CONTOUR
- 980- EXISTING INTERMEDIATE ELEVATION CONTOUR
- - - TYPICAL WATER LINE
- ☼ DECIDUOUS TREE
- * CONIFEROUS TREE
- ⊗ MANHOLE
- x—x— CHAIN LINK FENCE
- POLE (NON-UTILITY)
- POLE (OVERHEAD UTILITY)
- ~ SOURCE CONTROL CONTAINMENT BARRIER
- ES2-1 ◊ PREVIOUSLY INSTALLED MONITORING WELL
- 64X(W) ○ PREVIOUSLY INSTALLED OIL RECOVERY CAISSON
- RW-1(X) ○ PREVIOUSLY INSTALLED PUMPING WELL
- PZ-4S ◻ PREVIOUSLY INSTALLED PIEZOMETER
- WP-1 ◻ PREVIOUSLY INSTALLED WELL POINT
- E2SC-1 ◊ 1998 MONITORING WELLS
- WP-13 ◻ WELL POINT ABANDONED
- ▲ PROPOSED SOIL BORING

NOTES:

1. BASE MAP PROVIDED BY LOCKWOOD MAPPING, INC. PREPARED FROM 1990 AERIAL PHOTOGRAPHY. RIVERBANK AND RIVER BED TOPOGRAPHIC INFORMATION PROVIDED BY BBL FROM OCTOBER 12-23, 1998 FIELD SURVEY.
2. COORDINATE GRID BASED ON 1927 STATE PLANE COORDINATES.
3. ELEVATION DATUM REFERENCED TO NGVD 1929.
4. CONTOUR INTERVAL IN THE RIVER AND ON RIVERBANK = 1 FOOT CONTOUR. INTERVAL OUTSIDE RIVERBANK AREA = 2 FEET.
5. ALL MONITORING WELL, PUMPING WELL, CAISSON, FENCE, MANHOLE, AND TREE LOCATIONS ARE APPROXIMATE.
6. SHEETPILE WALL LOCATION BASED ON SURVEY DRAWING PROVIDED BY HILL ENGINEERS, ARCHITECTS, PLANNERS.



GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

**PROPOSED BORING LOCATIONS
COAL TAR DNAPL INVESTIGATION**

DRAFT

BBL BLASLAND, BOUCK & LEE, INC.
engineers & scientists

X 20197X01.DWG, 20197X02.DWG
L: ON=*, OFF=*REF
P: STD, PROP-DL
6/5/00 SYR-54-RJM YCC NES
20197070/20197003.DWG