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Report.VCP.V00444.2001-10-04.Soil_Data_report

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V00444-3

**Ecosystems Strategies, Inc.**

*Environmental Services and Solutions*

60 Worrall Avenue, Poughkeepsie, New York 12603-2332 TEL: 845-452-1658 • FAX: 845-485-7083 • EMAIL: ecosys@idsi.net

# TRANSMITTAL COVER SHEET

**DATE:** August 2, 2001 **PAGES:** (Including cover sheet) 13

**TO:** Mr. Joe Moloughney, NYSDEC Western Remedial

**FAX:** (518) 402-9577 **PHONE:** 402-9671

**RE:** Beacon Salvage Yard
ESI File Number: SB2096.40

**COMMENTS:**

Please review the above-referenced attachments and contact me at (845) 452-1658 should you have any questions.

√ Please confirm receipt ____ No reply necessary

**Hard copy to follow:** ☐ U.S. Mail ☐ Priority Mail ☐ Express Mail
☐ Federal Express ☐ Airborne Express ☐ None

cc:

From the desk of ...
Paul H. Ciminello
Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, New York 12603

(845) 452-1658
Fax: (845) 485-7083

If you do not receive all transmitted pages, please contact us immediately at (845) 452-1658.

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8/20/01

Spoke w/Paul Ciminello. re: Beacon Salvage "Proposed Additional sampling." He understands that verbal approval of this work DOES NOT constitute approval of an investigation workplan as per VCA. When VCA is signed they will submit an investigation workplan that fills in all data gaps. Specific comments given on workplan were:

- NO compositing of VOC samples; VOCs must be collected from discrete grab samples.
- Goal of composite samples is primarily dioxins, furans, etc. Samples therefore must be taken from within burn area.
- Subsurface data will eventually be needed for VOCs, pest/herb, + SVOCs.

JMM

**Ecosystems Strategies, Inc.** *Environmental Services and Solutions*
60 Worrall Avenue, Poughkeepsie, NY 12603-2332 TEL: 845-452-1658 • FAX: 845-485-7083 • EMAIL: ecosys@idsi.net

Proposed Additional Sampling
for the Former
Beacon Salvage Yard Site
Beacon, New York

This Supplemental Soil Sampling Workplan (Workplan) is prepared in response to an on-site meeting with J. Moloughney of the NYSDEC on June 11, 2001.

**Proposed Sampling**

Additional sampling will be conducted as follows:

1. Six soil samples (ID: SS-1 through SS-6) will be collected at locations shown on the attached map. Each soil sample will be collected from the 0-4" depth and will be analyzed for RCRA Metals (total weight) and PCBs (USEPA Method 8082). Additionally, one surface soil sample will be collected and analyzed for the target compound list [USEPA Methods 8260 (VOCs) and 8270 (SVOCs).

2. Two soil samples (ID: CS-1 and CS-2) will be collected at location shown on the attached map. Each soil sample will be a composite of three discreet locations from the 0-4" depths and will be analyzed for RCRA Metals (USEPA Method 6010) (total weight), pesticides (USEPA Method 8082), PCBs (USEPA Method 8081), and VOCs (USEPA Method 8260); SVOCs (both base neutral and acid extractable compounds) as per USEPA Method 8270; dioxins and furans (low resolution USEPA Method 8270); and total organic carbon.

3. One groundwater sample will be collected from on-site monitoring well RD-7 for dissolved RCRA metals (USEPA Method 6010).

- Move CS-2 closer/to to burn area.
- No VOCs in comp. samples.
- 4 6 separate sample for VOCs

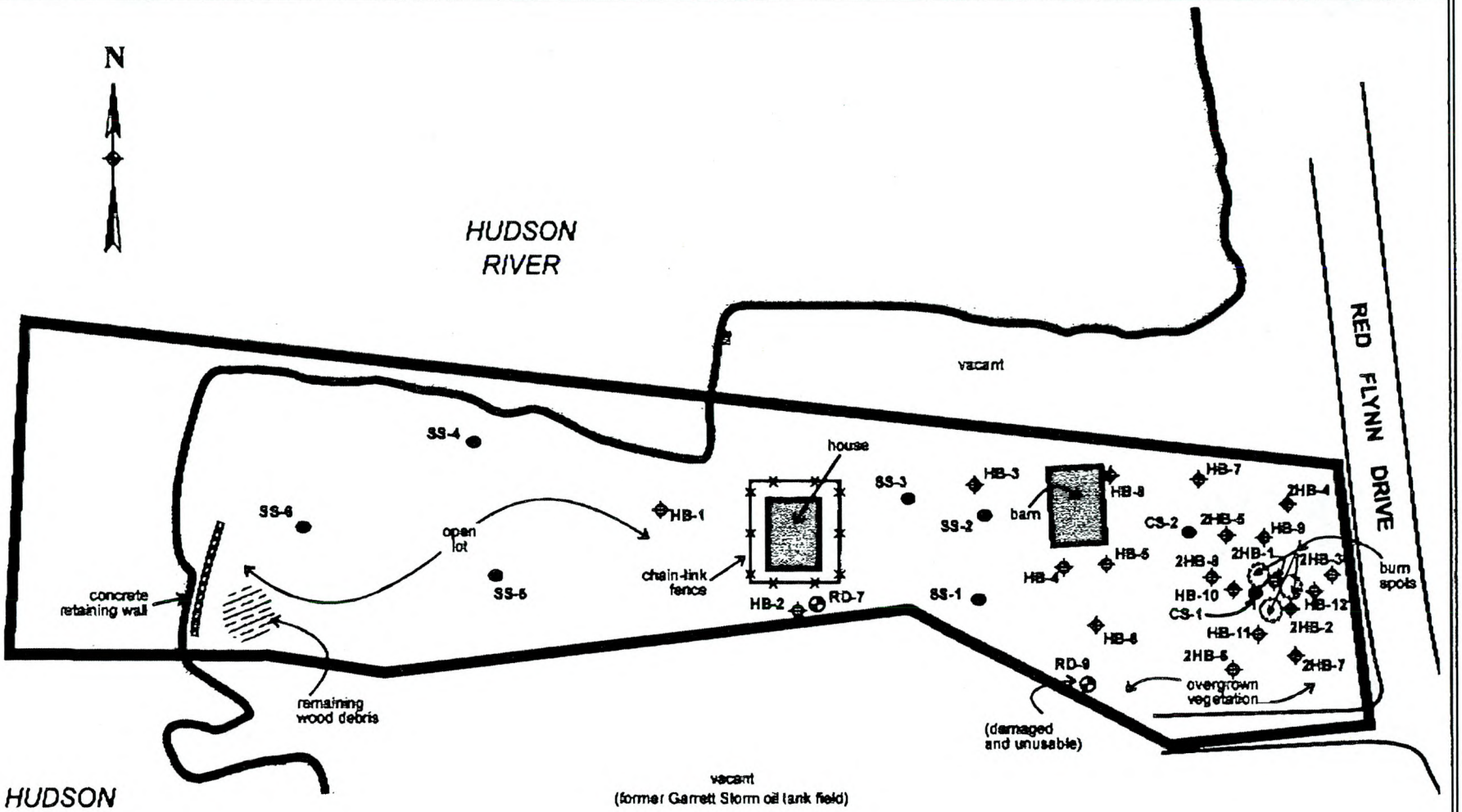
**Report**

All data will be summarized in a written report and provided to the Client and the NYSDEC.

**Schedule**

Sampling will be conducted within five (5) business days of authorization. Laboratory data will be available within ten (10) business days of collection and a report will be prepared within five (5) business days of data receipt.

- subsurface data for VOCs; in addition to surface (1-2 ft. depth)




Feature locations are approximate.

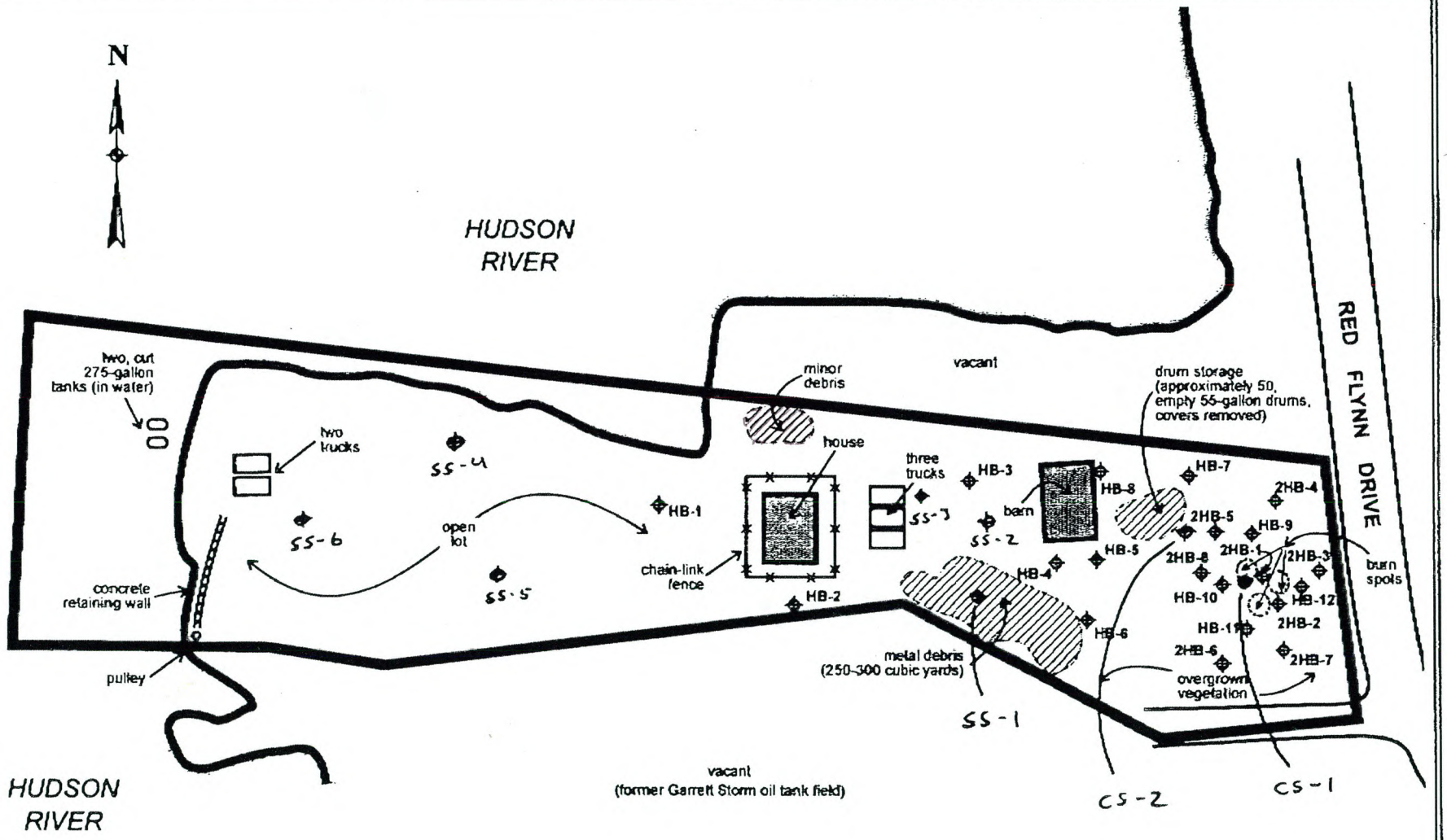
# Selected Site Features Map

"Beacon Salvage"
Red Flynn Drive
City of Beacon
Dutchess County, New York

Legend:
- subject property border
- former hand boring location/samples taken 6/30/00 HB-2
- former hand boring location/samples taken 8/15/00 2HB-2
- surface soil SS-1
- composite sample CS-1
- monitoring well RD-1

ESI File: SB2096.40
August 2001
Scale: 1" = 100' (approximately)
Attachment A

08/02/2001 09:39 4857083 PAGE 03




Feature locations are approximate.

## Selected Site Features Map

"Beacon Salvage"
Red Flynn Drive
City of Beacon
Dutchess County, New York

Legend:

- subject property border
- hand boring location/samples taken 6/30/00 HB-2
- hand boring location/samples taken 8/15/00 2HB-2

| |
|---|
| ESI File: SB2096.40 |
| January 2001 |
| Scale: 1" = 100' (approximately) |
| Attachment A |

07/19/2001 15:43 4857083 PAGE 02

V00444-3

Ecosystems Strategies, Inc.
Environmental Services and Solutions
60 Worrall Avenue, Poughkeepsie, NY 12603-2332
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FILE COPY

September 21, 2001

Margery Groten
Scenic Hudson Land Trust, Inc.
9 Vassar Street
Poughkeepsie, NY 12601

Re: Summary of Additional Laboratory Data for Investigation Conducted at the Barney Cohen Property Located on Ferry Street, City of Beacon, Dutchess County, New York
ESI File: SB2096.40

Dear Ms. Groten:

This letter summarizes laboratory data from additional soil samples collected in August 2001 on the above-referenced property. The expressed purpose of this additional investigative work was to provide more soil sample data to the NYSDEC as a means of characterizing the site and documenting the presence or absence of specific contaminants which had not been previously analyzed for, as well as to document the presence of known contaminants at levels greater than previous data indicated. All soil samples were collected in areas previously reviewed with the NYSDEC; the locations of additional soil samples are shown on the attached map. Copies of laboratory results are also attached to this letter.

**Soil Data**

Two composite surface soil samples (CS-1and CS-2) were obtained from the former burn area of the site. Each of these samples was obtained from three discreet locations. This burn area is located in the eastern portion of the site and was identified and visually marked with survey/caution ribbon. Soil samples collected from CS-1 and CS-2 were screened for pesticides utilizing USEPA Method 8081, VOCs utilizing Method 8260, SVOCs (both base neutral and acid extractable compounds) as per USEPA Method 8270, dioxins and furans (low resolution USEPA Method 8270), PCBs utilizing USEPA Method 8082, total weight RCRA Metals utilizing USEPA Method 6010 and total organic carbon. In addition, six surface soil samples (SS-1 - SS-6) were collected throughout the site, as shown on the attached map.

Soil samples were analyzed for total weight metals, and the resulting data are summarized in Table 1, below. Data indicate consistent exceedances of action levels for arsenic and lead, with only minor exceedances of action levels for chromium and mercury. No exceedances were identified for barium, cadmium, selenium, or silver. With the exception of SS-2 for lead and CS-2 for arsenic, all exceedances were less than two times the respective action level. That is, in general exceedances were marginal and therefore do not represent definable areas of substantial contamination.

Soil samples were also analyzed for various organic compounds, including PCBs, VOCs, and SVOCs. The resulting data are summarized in Table 2, below. Consistent exceedances are noted for SVOCs within the burn area (CS-1 and CS-2). These levels support field observations of petroleum-stained soils. With one minor exception, no SVOC exceedances were noted in soil samples outside of the burn areas, consistent with field observations.

PCB levels outside of the burn area (the area subject to proposed remedial action) were below the surface soil action level of 1,000 ppb, with the exception of SS-2 (1,100 ppb). Both samples within the burn area (CS-1 and CS-2) were at or near the PCB action level.

No detectable concentrations of VOCs, pesticides, or dioxins were identified in CS-1, CS-2, SS-3, or SS-4.

**Groundwater Sample**

A single water sample was obtained from the remaining on-site monitoring well (RD-7) located in the south center of the site. A water sample was obtained from RD-7 and analyzed for dissolved RCRA Metals utilizing USEPA Method 6010. Barium was detected at 0.075 ppm. No additional dissolved metals were noted in the water sample obtained from this well.

**Conclusions**

Data confirm the presence of low levels of PCBs in on-site soils, with the primary concentration of PCBs remaining in the former burn areas. These soils are proposed to be removed.

Data also suggest the presence of elevated lead in surface soils throughout the site. Other metals do not appear to be present in surface soils at levels warranting remedial actions. The presence of elevated metals is not unusual given the formation of the property using urban fill, the former use of the property as a metal storage facility and the location of this site in an urban area. Metal levels warrant the implementation of actions (e.g., importation of certified clean fill) to prevent direct contact with existing surface soils. Finally, the absence of furans and dioxin in the burn area support the conclusion that the presence of PCBs in the burn areas was not the result of burning. The presence of SVOCs at concentrations exceeding action levels is consistent with field observations and does not represent a condition warranting remediation beyond the soil removal actions proposed in this area. These results are consistent with previous sampling results and estimates concerning the scope of remediation.

Please review this letter and contact me at 845-452-1658 should you have any questions or comments.

Sincerely,

ECOSYSTEMS STRATEGIES, INC.

Paul H. Ciminello
President

PHC/aw

cc: File
J. Moloughney, NYSDEC-Albany
V. McMillan, Lewis and Greer, PC

F:\DATA\WPDATA\PROJECTS\2000\SB2096\SB2096-40\sb2096-40 LTR TO DEC RESULTS.WPD

**Table 1: Summary of PCBs in Soil Samples - June 2000 - "Barney Cohen" Property, City of Beacon, Dutchess County, New York** (Results in **bold** exceed designated action levels. All results measured in μg/kg.)

| Compound (Method 8082) | Action Level[1] | SAMPLE IDENTIFICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | Re-analyses | | |
| | | HB-9 (0-1') | HB-10 (0-1') | HB-11 (0-1') | HB-9 (0-1') | HB-10 (0-1') | HB-11 (0-1') |
| PCB-1016 | 1,000 | 80 | **5,400** | 240 | ND | ND | ND |
| PCB-1221 | 1,000 | ND | ND | ND | ND | ND | ND |
| PCB-1232 | 1,000 | ND | ND | ND | ND | ND | ND |
| PCB-1242 | 1,000 | ND | ND | ND | ND | ND | ND |
| PCB-1248 | 1,000 | ND | ND | ND | ND | ND | ND |
| PCB-1254 | 1,000 | 260 | **8,100** | 570 | 540 | **12,400** | 730 |
| PCB-1260 | 1,000 | 14 | ND | ND | 380 | **5,320** | 290 |
| PCB-Total | 1,000 | 480 | **13,500** | 810 | 920 | **17,720** | **1,020** |

Notes:
1. Action level for PCBs is 1,000 μg/kg for surface soils; 10,000 μg/kg for subsurface soils pursuant to the NYSDEC Technical Administrative Guidance Memorandum #4046 (TAGM) Revised January 24, 1994, as modified by subsequent, relevant records of decision (RODs).
2. ND = Not Detected above specified detection limit.

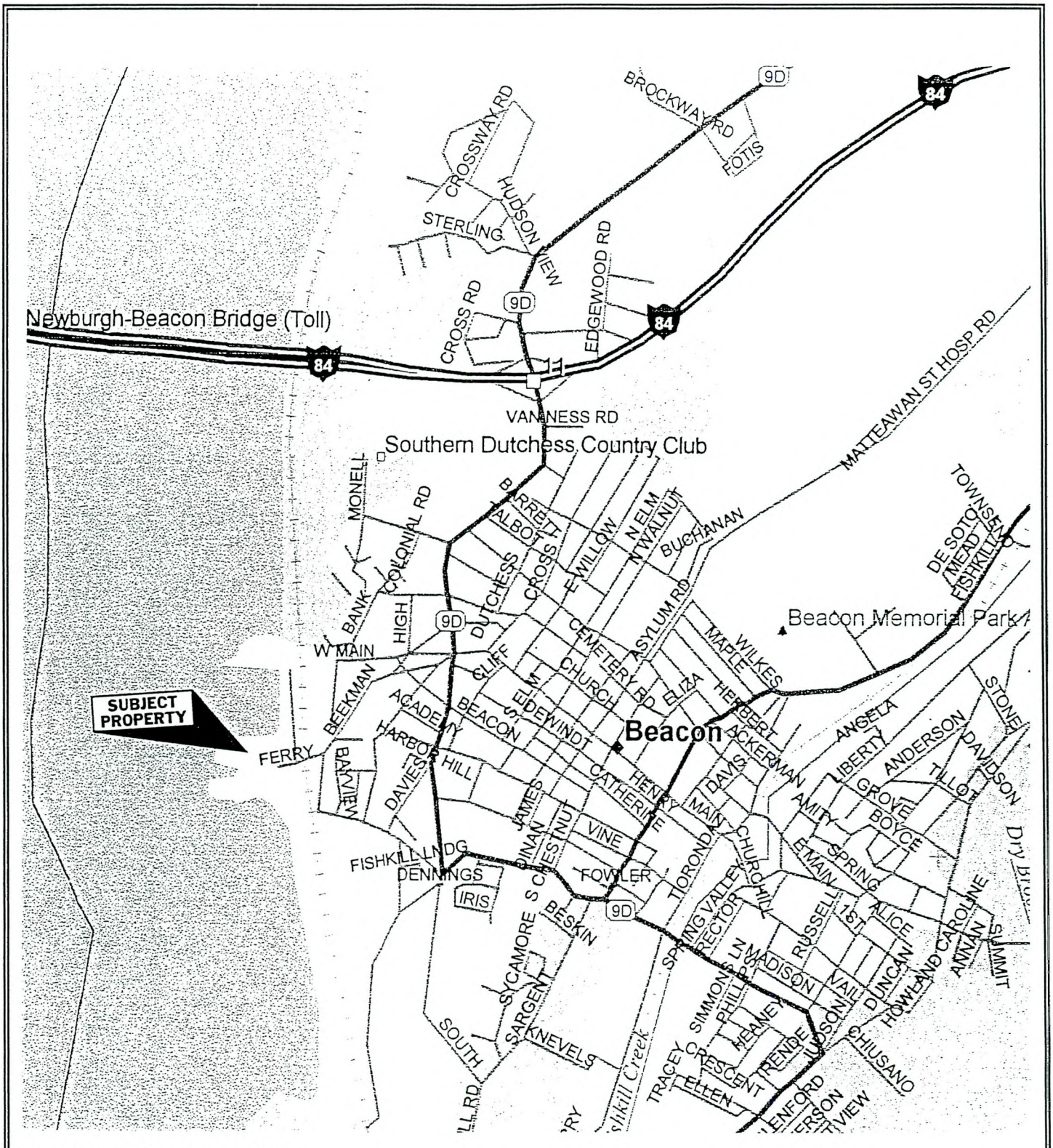
**Table 2: Summary of PCBs in Soil Samples - August 2000 - "Barney Cohen" Property, City of Beacon, Dutchess County, New York** (Results in **bold** exceed designated action levels. All results measured in μg/kg.)

| Compound (Method 8082) | Action Level[1] | SAMPLE IDENTIFICATION | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 2HB-1 (0'-0.5') | 2HB-1 (4'-5') | 2HB-2 (0'-0.5') | 2HB-3 (0'-0.5') | 2HB-3 (4'-5') | 2HB-4 (0'-0.5') | 2HB-4 (3'-5') |
| PCB-1016 | 1,000 | 40 | 30 | 80 | 100 | 820 | 40 | ND |
| PCB-1221 | 1,000 | ND | ND | ND | ND | ND | ND | ND |
| PCB-1232 | 1,000 | ND | ND | ND | ND | ND | ND | ND |
| PCB-1242 | 1,000 | ND | ND | ND | ND | ND | ND | ND |
| PCB-1248 | 1,000 | ND | ND | ND | ND | ND | ND | ND |
| PCB-1254 | 1,000 | 400 | 120 | 520 | 200 | 480 | 120 | ND |
| PCB-1260 | 1,000 | 150 | ND | ND | 180 | 190 | 90 | ND |
| Total PCBs | 1,000 | 590 | 150 | 600 | 480 | 1,500 | 250 | ND |

Notes: 1. Action level for PCBs is 1,000 μg/kg for surface soils; 10,000 μg/kg for subsurface soils pursuant to the NYSDEC Technical Administrative Guidance Memorandum #4046 (TAGM) Revised January 24, 1994 as modified by subsequent, relevant records of decision (RODs).
2. ND = Not Detected above specified detection limit.

| Compound (Method 8082) | Action Level[1] | SAMPLE IDENTIFICATION | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 2HB-5 (0'-0.5') | 2HB-5 (5'-6') | 2HB-6 (0'-0.5') | 2HB-6 (4'-6') | 2HB-7 (0'-0.5') | 2HB-7 (4'-6') | 2HB-8 (0'-0.5') | 2HB-8 (3'-4') |
| PCB-1016 | 1,000 | 170 | ND | 100 | 30 | 670 | ND | 280 | ND |
| PCB-1221 | 1,000 | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB-1232 | 1,000 | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB-1242 | 1,000 | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB-1248 | 1,000 | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB-1254 | 1,000 | ND | 270 | 450 | 180 | 540 | ND | 130 | 110 |
| PCB-1260 | 1,000 | 380 | 200 | ND | ND | ND | ND | 430 | ND |
| Total PCBs | 1,000 | 550 | 470 | 550 | 210 | **1,200** | ND | **2,000** | 110 |

Notes: 1. Action level for PCBs is 1,000 μg/kg for surface soils; 10,000 μg/kg for subsurface soils pursuant to the NYSDEC Technical Administrative Guidance Memorandum #404 (TAGM) Revised January 24, 1994, as modified by subsequent, relevant records of decision (RODs).
2. ND = Not Detected above specified detection limit.




Source: Hagstrom Map Company, 1997

## Site Location Map

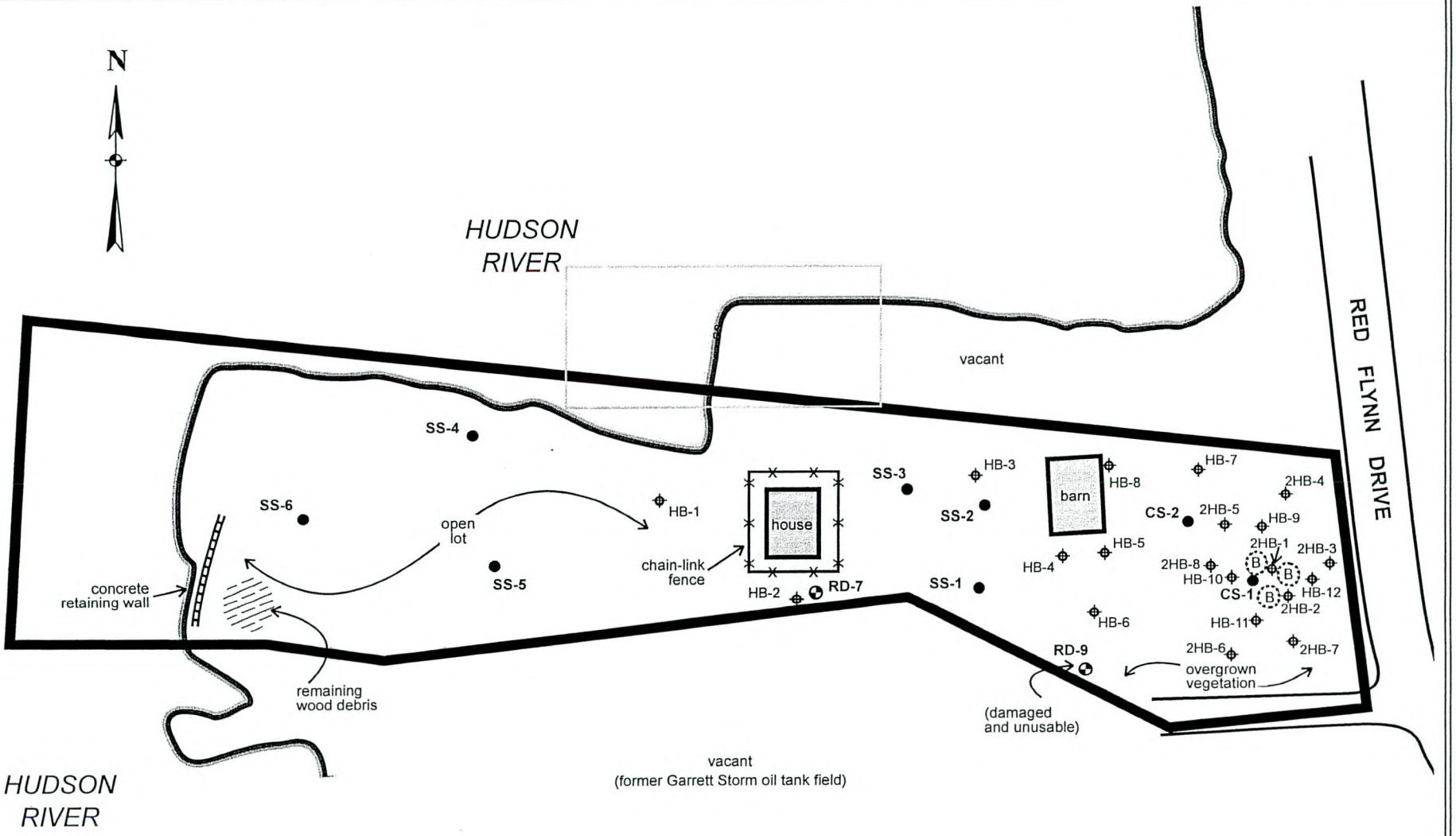
"Beacon Salvage"
Red Flynn Drive
City of Beacon, Dutchess County, New York

N

ESI File: SB2096.40

Date: September 2001

Attachment A




Feature locations are approximate.

# Selected Site Features Map

"Beacon Salvage"
Red Flynn Drive
City of Beacon
Dutchess County, New York

Legend:
- subject property border
- burn spot (B)
- former hand boring location/samples taken 6/30/00 HB-2
- former hand boring location/samples taken 8/15/00 2HB-2
- surface soil SS-1
- monitoring well RD-1
- composite sample CS-1

ESI File: SB2096.40
September 2001
Scale: 1" = 100' (approximately)
Attachment A

YORK
ANALYTICAL LABORATORIES, INC.

RECEIVED
AUG 31 2001

# Technical Report

prepared for

**Ecosystems Strategies, Inc.**
**60 Worrall Avenue**
**Poughkeepsie, NY 12603**
**Attention: Jonathan A. Kaplan**

Report Date: 8/29/2001
***Re: Client Project ID: SB2096.40***
York Project No.: 01080459

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 EPA I.D. No. CT00106

nelac nelap

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 8/29/2001
Client Project ID: SB2096.40
York Project No.: 01080459

**Ecosystems Strategies, Inc.**
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 08/20/01. The project was identifed as your project "SB2096.40 ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

## *Analysis Results*

| Client Sample ID | | | CS-1 | | CS-2 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 01080459-01 | | 01080459-02 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| Pesticides 8080 List soil | SW846-3550B/8081 | ug/Kg | --- | --- | --- | --- |
| 4,4'-DDD | | | Not detected | 10 | Not detected | 10 |
| 4,4'-DDE | | | Not detected | 10 | Not detected | 10 |
| 4,4'-DDT | | | Not detected | 10 | Not detected | 10 |
| Aldrin | | | Not detected | 10 | Not detected | 10 |
| alpha-BHC | | | Not detected | 10 | Not detected | 10 |
| beta-BHC | | | Not detected | 10 | Not detected | 10 |
| Chlordane | | | Not detected | 50 | Not detected | 50 |
| delta-BHC | | | Not detected | 10 | Not detected | 10 |
| Dieldrin | | | Not detected | 10 | Not detected | 10 |
| Endosulfan I | | | Not detected | 10 | Not detected | 10 |
| Endosulfan II | | | Not detected | 10 | Not detected | 10 |
| Endosulfan sulfate | | | Not detected | 10 | Not detected | 10 |
| Endrin | | | Not detected | 10 | Not detected | 10 |
| Endrin aldehyde | | | Not detected | 10 | Not detected | 10 |
| gamma-BHC (Lindane) | | | Not detected | 10 | Not detected | 10 |
| Heptachlor | | | Not detected | 10 | Not detected | 10 |

YORK

| Client Sample ID | | | CS-1 | | CS-2 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 01080459-01 | | 01080459-02 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| Heptachlor epoxide | | | Not detected | 10 | Not detected | 10 |
| Methoxychlor | | | Not detected | 500 | Not detected | 500 |
| Toxaphene | | | Not detected | 500 | Not detected | 500 |
| **Volatiles-8260 list** | SW846-8260 | ug/Kg | --- | --- | --- | --- |
| 1,1,1,2-Tetrachloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1,1-Trichloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1,2,2-Tetrachloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1,2-Trichloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1-Dichloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1-Dichloroethylene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1-Dichloropropylene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2,3-Trichlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2,3-Trichloropropane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2,3-Trimethylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2,4-Trichlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2,4-Trimethylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dibromo-3-chloropropane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dibromoethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dichlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dichloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dichloroethylene (Total) | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dichloropropane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,3,5-Trimethylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,3-Dichlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,3-Dichloropropane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,4-Dichlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1-Chlorohexane | | | Not detected | 5.0 | Not detected | 5.0 |
| 2,2-Dichloropropane | | | Not detected | 5.0 | Not detected | 5.0 |
| 2-Chlorotoluene | | | Not detected | 5.0 | Not detected | 5.0 |
| 4-Chlorotoluene | | | Not detected | 5.0 | Not detected | 5.0 |
| Benzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Bromobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Bromochloromethane | | | Not detected | 50 | Not detected | 50 |
| Bromodichloromethane | | | Not detected | 50 | Not detected | 50 |
| Bromoform | | | Not detected | 5.0 | Not detected | 5.0 |
| Bromomethane | | | Not detected | 50 | Not detected | 50 |
| Carbon tetrachloride | | | Not detected | 5.0 | Not detected | 5.0 |
| Chlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Chloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| Chloroform | | | Not detected | 50 | Not detected | 50 |
| Chloromethane | | | Not detected | 50 | Not detected | 50 |
| cis-1,3-Dichloropropylene | | | Not detected | 5.0 | Not detected | 5.0 |
| Dibromochloromethane | | | Not detected | 5.0 | Not detected | 5.0 |
| Dibromomethane | | | Not detected | 5.0 | Not detected | 5.0 |
| Dichlorodifluoromethane | | | Not detected | 5.0 | Not detected | 5.0 |
| Ethylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Hexachlorobutadiene | | | Not detected | 5.0 | Not detected | 5.0 |
| Isopropylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Methylene chloride | | | Not detected | 5.0 | Not detected | 5.0 |
| Naphthalene | | | Not detected | 5.0 | Not detected | 5.0 |
| n-Butylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |

YORK

| Client Sample ID | | | CS-1 | | CS-2 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 01080459-01 | | 01080459-02 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| n-Propylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| o-Xylene | | | Not detected | 5.0 | Not detected | 5.0 |
| p- & m-Xylenes | | | Not detected | 5.0 | Not detected | 5.0 |
| p-Isopropyltoluene | | | Not detected | 5.0 | Not detected | 5.0 |
| sec-Butylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Styrene | | | Not detected | 5.0 | Not detected | 5.0 |
| tert-Butylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Tetrachloroethylene | | | Not detected | 5.0 | Not detected | 5.0 |
| Toluene | | | Not detected | 5.0 | Not detected | 5.0 |
| trans-1,3-Dichloropropylene | | | Not detected | 5.0 | Not detected | 5.0 |
| Trichloroethylene | | | Not detected | 5.0 | Not detected | 5.0 |
| Trichlorofluoromethane | | | Not detected | 5.0 | Not detected | 5.0 |
| Vinyl chloride | | | Not detected | 50 | Not detected | 50 |
| **BNA-8270 List soil** | SW846-8270 | ug/Kg | --- | --- | --- | --- |
| 1,2,4-Trichlorobenzene | | | Not detected | 660 | Not detected | 660 |
| 1,2-Dichlorobenzene | | | Not detected | 660 | Not detected | 660 |
| 1,3-Dichlorobenzene | | | Not detected | 660 | Not detected | 660 |
| 1,4-Dichlorobenzene | | | Not detected | 660 | Not detected | 660 |
| 2,4,5-Trichlorophenol | | | Not detected | 660 | Not detected | 660 |
| 2,4,6-Trichlorophenol | | | Not detected | 660 | Not detected | 660 |
| 2,4-Dichlorophenol | | | Not detected | 660 | Not detected | 660 |
| 2,4-Dimethylphenol | | | Not detected | 660 | Not detected | 660 |
| 2,4-Dinitrophenol | | | Not detected | 3400 | Not detected | 3400 |
| 2,4-Dinitrotoluene | | | Not detected | 660 | Not detected | 660 |
| 2,6-Dinitrotoluene | | | Not detected | 660 | Not detected | 660 |
| 2-Chloronaphthalene | | | Not detected | 660 | Not detected | 660 |
| 2-Chlorophenol | | | Not detected | 660 | Not detected | 660 |
| 2-Methylnaphthalene | | | Not detected | 660 | Not detected | 660 |
| 2-Methylphenol | | | Not detected | 660 | Not detected | 660 |
| 2-Nitroaniline | | | Not detected | 3400 | Not detected | 3400 |
| 2-Nitrophenol | | | Not detected | 660 | Not detected | 660 |
| 3,3'-Dichlorobenzidine | | | Not detected | 660 | Not detected | 660 |
| 3-Nitroaniline | | | Not detected | 3400 | Not detected | 3400 |
| 4,6-Dinitro-2-methylphenol | | | Not detected | 3400 | Not detected | 3400 |
| 4-Bromophenyl phenyl ether | | | Not detected | 660 | Not detected | 660 |
| 4-Chloro-3-methyl phenol | | | Not detected | 660 | Not detected | 660 |
| 4-Chloroaniline | | | Not detected | 660 | Not detected | 660 |
| 4-Chlorophenyl phenyl ether | | | Not detected | 660 | Not detected | 660 |
| 4-Methylphenol | | | Not detected | 660 | Not detected | 660 |
| 4-Nitroaniline | | | Not detected | 3400 | Not detected | 3400 |
| 4-Nitrophenol | | | Not detected | 3400 | Not detected | 3400 |
| Acenaphthene | | | Not detected | 660 | Not detected | 660 |
| Acenaphthylene | | | Not detected | 660 | Not detected | 660 |
| Anthracene | | | Not detected | 660 | Not detected | 660 |
| Benzo(a)anthracene | | | 2700 | 660 | 2100 | 660 |
| Benzo(a)pyrene | | | 1900 | 660 | 2100 | 660 |
| Benzo(b)fluoranthene | | | 1900 | 660 | 2200 | 660 |
| Benzo(g,h,i)perylene | | | Not detected | 660 | 670 | 660 |
| Benzo(k)fluoranthene | | | 2600 | 660 | 2500 | 660 |
| Benzyl alcohol | | | Not detected | 660 | Not detected | 660 |
| Bis(2-chloroethoxy)methane | | | Not detected | 660 | Not detected | 660 |

YORK

| Client Sample ID | | | CS-1 | | CS-2 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 01080459-01 | | 01080459-02 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| Bis(2-chloroethyl)ether | | | Not detected | 660 | Not detected | 660 |
| Bis(2-chloroisopropyl)ether | | | Not detected | 660 | Not detected | 660 |
| Bis(2-ethylhexyl)phthalate | | | Not detected | 660 | Not detected | 660 |
| Butyl benzyl phthalate | | | Not detected | 660 | Not detected | 660 |
| Chrysene | | | 3000 | 660 | 2500 | 660 |
| Dibenz(a,h)anthracene | | | Not detected | 660 | Not detected | 660 |
| Dibenzofuran | | | Not detected | 660 | Not detected | 660 |
| Diethylphthalate | | | Not detected | 660 | Not detected | 660 |
| Dimethylphthalate | | | Not detected | 660 | Not detected | 660 |
| Di-n-butylphthalate | | | Not detected | 660 | Not detected | 660 |
| Di-n-octylphthalate | | | Not detected | 660 | Not detected | 660 |
| Fluoranthene | | | 4500 | 660 | 4200 | 660 |
| Fluorene | | | Not detected | 660 | Not detected | 660 |
| Hexachlorobenzene | | | Not detected | 660 | Not detected | 660 |
| Hexachlorobutadiene | | | Not detected | 660 | Not detected | 660 |
| Hexachlorocyclopentadiene | | | Not detected | 660 | Not detected | 660 |
| Hexachloroethane | | | Not detected | 660 | Not detected | 660 |
| Indeno(1,2,3-cd)pyrene | | | Not detected | 660 | 870 | 660 |
| Isophorone | | | Not detected | 660 | Not detected | 660 |
| Naphthalene | | | Not detected | 660 | Not detected | 660 |
| Nitrobenzene | | | Not detected | 660 | Not detected | 660 |
| N-Nitrosodi-n-propylamine | | | Not detected | 660 | Not detected | 660 |
| N-Nitrosodiphenylamine | | | Not detected | 660 | Not detected | 660 |
| Pentachlorophenol | | | Not detected | 3400 | Not detected | 3400 |
| Phenanthrene | | | 2100 | 660 | 2400 | 660 |
| Phenol | | | Not detected | 660 | Not detected | 660 |
| Pyrene | | | 4300 | 660 | 3700 | 660 |
| **PCB** | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | 0.32 | 0.02 | 0.14 | 0.02 |
| PCB 1221 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1232 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1242 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1248 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1254 | | | 0.57 | 0.02 | 0.54 | 0.02 |
| PCB 1260 | | | 0.24 | 0.02 | 0.13 | 0.02 |
| PCB, Total | | | 1.1 | 0.02 | 0.81 | 0.02 |
| **Total RCRA Metals** | SW846 | mg/kG | --- | --- | --- | --- |
| Arsenic, total | | | 12.8 | 1.00 | 26.6 | 1.00 |
| Barium, total | | | 143 | 0.50 | 151 | 0.50 |
| Cadmium, total | | | 4.21 | 0.50 | 2.09 | 0.50 |
| Chromium, total | | | 57.5 | 0.50 | 39.2 | 0.50 |
| Lead, total | | | 472 | 0.50 | 404 | 0.50 |
| Selenium, total | | | Not detected | 1.00 | Not detected | 1.00 |
| Silver, total | | | 0.95 | 0.50 | 0.67 | 0.50 |
| Mercury | SW846-7471 | mg/kG | Not detected | 0.25 | 0.25 | 0.25 |
| Tetrachlorodibenzofurans(TCDF) | SW846-8270 | ug/kg | Not detected | 33 | Not detected | 33 |
| 2,3,7,8-TCDD (Dioxin) | SW846-8270 | ug/kg | Not detected | 33 | Not detected | 33 |
| Total Organic Carbon | SM | mg/kg | 124 | 0.10 | 120 | 0.10 |

YORK

| Client Sample ID | | | SS-1 | | SS-2 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 01080459-03 | | 01080459-04 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| **PCB** | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | 0.43 | 0.02 | 0.15 | 0.02 |
| PCB 1221 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1232 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1242 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1248 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1254 | | | 0.31 | 0.02 | 0.94 | 0.02 |
| PCB 1260 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB, Total | | | 0.74 | 0.02 | 1.1 | 0.02 |
| **Total RCRA Metals** | SW846 | mg/kG | --- | --- | --- | --- |
| Arsenic, total | | | 14.2 | 1.00 | 17.4 | 1.00 |
| Barium, total | | | 157 | 0.50 | 194 | 0.50 |
| Cadmium, total | | | 1.48 | 0.50 | 8.87 | 0.50 |
| Chromium, total | | | 13.7 | 0.50 | 18.7 | 0.50 |
| Lead, total | | | 558 | 0.50 | 3950 | 0.50 |
| Selenium, total | | | Not detected | 1.00 | Not detected | 1.00 |
| Silver, total | | | Not detected | 0.50 | 1.88 | 0.50 |
| Mercury | SW846-7471 | mg/kG | 0.35 | 0.25 | 1.14 | 0.25 |

| Client Sample ID | | | SS-3 | | SS-4 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 01080459-05 | | 01080459-06 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| **Volatiles-8260 list** | SW846-8260 | ug/Kg | --- | --- | --- | --- |
| 1,1,1,2-Tetrachloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1,1-Trichloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1,2,2-Tetrachloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1,2-Trichloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1-Dichloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1-Dichloroethylene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1-Dichloropropylene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2,3-Trichlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2,3-Trichloropropane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2,3-Trimethylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2,4-Trichlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2,4-Trimethylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dibromo-3-chloropropane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dibromoethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dichlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dichloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dichloroethylene (Total) | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dichloropropane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,3,5-Trimethylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,3-Dichlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,3-Dichloropropane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,4-Dichlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1-Chlorohexane | | | Not detected | 5.0 | Not detected | 5.0 |
| 2,2-Dichloropropane | | | Not detected | 5.0 | Not detected | 5.0 |

YORK

| Client Sample ID | | | SS-3 | | SS-4 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 01080459-05 | | 01080459-06 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| 2-Chlorotoluene | | | Not detected | 5.0 | Not detected | 5.0 |
| 4-Chlorotoluene | | | Not detected | 5.0 | Not detected | 5.0 |
| Benzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Bromobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Bromochloromethane | | | Not detected | 50 | Not detected | 50 |
| Bromodichloromethane | | | Not detected | 50 | Not detected | 50 |
| Bromoform | | | Not detected | 5.0 | Not detected | 5.0 |
| Bromomethane | | | Not detected | 50 | Not detected | 50 |
| Carbon tetrachloride | | | Not detected | 5.0 | Not detected | 5.0 |
| Chlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Chloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| Chloroform | | | Not detected | 50 | Not detected | 50 |
| Chloromethane | | | Not detected | 50 | Not detected | 50 |
| cis-1,3-Dichloropropylene | | | Not detected | 5.0 | Not detected | 5.0 |
| Dibromochloromethane | | | Not detected | 5.0 | Not detected | 5.0 |
| Dibromomethane | | | Not detected | 5.0 | Not detected | 5.0 |
| Dichlorodifluoromethane | | | Not detected | 5.0 | Not detected | 5.0 |
| Ethylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Hexachlorobutadiene | | | Not detected | 5.0 | Not detected | 5.0 |
| Isopropylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Methylene chloride | | | Not detected | 5.0 | Not detected | 5.0 |
| Naphthalene | | | Not detected | 5.0 | Not detected | 5.0 |
| n-Butylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| n-Propylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| o-Xylene | | | Not detected | 5.0 | Not detected | 5.0 |
| p- & m-Xylenes | | | Not detected | 5.0 | Not detected | 5.0 |
| p-Isopropyltoluene | | | Not detected | 5.0 | Not detected | 5.0 |
| sec-Butylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Styrene | | | Not detected | 5.0 | Not detected | 5.0 |
| tert-Butylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Tetrachloroethylene | | | Not detected | 5.0 | Not detected | 5.0 |
| Toluene | | | Not detected | 5.0 | Not detected | 5.0 |
| trans-1,3-Dichloropropylene | | | Not detected | 5.0 | Not detected | 5.0 |
| Trichloroethylene | | | Not detected | 5.0 | Not detected | 5.0 |
| Trichlorofluoromethane | | | Not detected | 5.0 | Not detected | 5.0 |
| Vinyl chloride | | | Not detected | 50 | Not detected | 50 |
| **BNA-8270 List soil** | SW846-8270 | ug/Kg | --- | --- | --- | --- |
| 1,2,4-Trichlorobenzene | | | Not detected | 660 | Not detected | 330 |
| 1,2-Dichlorobenzene | | | Not detected | 660 | Not detected | 330 |
| 1,3-Dichlorobenzene | | | Not detected | 660 | Not detected | 330 |
| 1,4-Dichlorobenzene | | | Not detected | 660 | Not detected | 330 |
| 2,4,5-Trichlorophenol | | | Not detected | 660 | Not detected | 330 |
| 2,4,6-Trichlorophenol | | | Not detected | 660 | Not detected | 330 |
| 2,4-Dichlorophenol | | | Not detected | 660 | Not detected | 330 |
| 2,4-Dimethylphenol | | | Not detected | 660 | Not detected | 330 |
| 2,4-Dinitrophenol | | | Not detected | 3400 | Not detected | 1700 |
| 2,4-Dinitrotoluene | | | Not detected | 660 | Not detected | 330 |
| 2,6-Dinitrotoluene | | | Not detected | 660 | Not detected | 330 |
| 2-Chloronaphthalene | | | Not detected | 660 | Not detected | 330 |
| 2-Chlorophenol | | | Not detected | 660 | Not detected | 330 |
| 2-Methylnaphthalene | | | Not detected | 660 | Not detected | 330 |

YORK

| Client Sample ID | | | SS-3 | | SS-4 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 01080459-05 | | 01080459-06 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| 2-Methylphenol | | | Not detected | 660 | Not detected | 330 |
| 2-Nitroaniline | | | Not detected | 3400 | Not detected | 1700 |
| 2-Nitrophenol | | | Not detected | 660 | Not detected | 330 |
| 3,3'-Dichlorobenzidine | | | Not detected | 660 | Not detected | 330 |
| 3-Nitroaniline | | | Not detected | 3400 | Not detected | 1700 |
| 4,6-Dinitro-2-methylphenol | | | Not detected | 3400 | Not detected | 1700 |
| 4-Bromophenyl phenyl ether | | | Not detected | 660 | Not detected | 330 |
| 4-Chloro-3-methyl phenol | | | Not detected | 660 | Not detected | 330 |
| 4-Chloroaniline | | | Not detected | 660 | Not detected | 330 |
| 4-Chlorophenyl phenyl ether | | | Not detected | 660 | Not detected | 330 |
| 4-Methylphenol | | | Not detected | 660 | Not detected | 330 |
| 4-Nitroaniline | | | Not detected | 3400 | Not detected | 1700 |
| 4-Nitrophenol | | | Not detected | 3400 | Not detected | 1700 |
| Acenaphthene | | | Not detected | 660 | Not detected | 330 |
| Acenaphthylene | | | Not detected | 660 | Not detected | 330 |
| Anthracene | | | Not detected | 660 | Not detected | 330 |
| Benzo(a)anthracene | | | Not detected | 660 | Not detected | 330 |
| Benzo(a)pyrene | | | Not detected | 660 | Not detected | 330 |
| Benzo(b)fluoranthene | | | Not detected | 660 | Not detected | 330 |
| Benzo(g,h,i)perylene | | | Not detected | 660 | Not detected | 330 |
| Benzo(k)fluoranthene | | | 800 | 660 | Not detected | 330 |
| Benzyl alcohol | | | Not detected | 660 | Not detected | 330 |
| Bis(2-chloroethoxy)methane | | | Not detected | 660 | Not detected | 330 |
| Bis(2-chloroethyl)ether | | | Not detected | 660 | Not detected | 330 |
| Bis(2-chloroisopropyl)ether | | | Not detected | 660 | Not detected | 330 |
| Bis(2-ethylhexyl)phthalate | | | Not detected | 660 | Not detected | 330 |
| Butyl benzyl phthalate | | | Not detected | 660 | Not detected | 330 |
| Chrysene | | | 730 | 660 | Not detected | 330 |
| Dibenz(a,h)anthracene | | | Not detected | 660 | Not detected | 330 |
| Dibenzofuran | | | Not detected | 660 | Not detected | 330 |
| Diethylphthalate | | | Not detected | 660 | Not detected | 330 |
| Dimethylphthalate | | | Not detected | 660 | Not detected | 330 |
| Di-n-butylphthalate | | | Not detected | 660 | Not detected | 330 |
| Di-n-octylphthalate | | | Not detected | 660 | Not detected | 330 |
| Fluoranthene | | | 1400 | 660 | Not detected | 330 |
| Fluorene | | | Not detected | 660 | Not detected | 330 |
| Hexachlorobenzene | | | Not detected | 660 | Not detected | 330 |
| Hexachlorobutadiene | | | Not detected | 660 | Not detected | 330 |
| Hexachlorocyclopentadiene | | | Not detected | 660 | Not detected | 330 |
| Hexachloroethane | | | Not detected | 660 | Not detected | 330 |
| Indeno(1,2,3-cd)pyrene | | | Not detected | 660 | Not detected | 330 |
| Isophorone | | | Not detected | 660 | Not detected | 330 |
| Naphthalene | | | Not detected | 660 | Not detected | 330 |
| Nitrobenzene | | | Not detected | 660 | Not detected | 330 |
| N-Nitrosodi-n-propylamine | | | Not detected | 660 | Not detected | 330 |
| N-Nitrosodiphenylamine | | | Not detected | 660 | Not detected | 330 |
| Pentachlorophenol | | | Not detected | 3400 | Not detected | 1700 |
| Phenanthrene | | | 850 | 660 | Not detected | 330 |
| Phenol | | | Not detected | 660 | Not detected | 330 |
| Pyrene | | | 1100 | 660 | Not detected | 330 |

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| Client Sample ID | | | SS-3 | | SS-4 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 01080459-05 | | 01080459-06 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | 0.04 | 0.02 | Not detected | 0.02 |
| PCB 1221 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1232 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1242 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1248 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1254 | | | 0.14 | 0.02 | 0.03 | 0.02 |
| PCB 1260 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB, Total | | | 0.18 | 0.02 | 0.03 | 0.02 |
| Total RCRA Metals | SW846 | mg/kG | --- | --- | --- | --- |
| Arsenic, total | | | 11.5 | 1.00 | 5.34 | 1.00 |
| Barium, total | | | 60.8 | 0.50 | 58.4 | 0.50 |
| Cadmium, total | | | 0.90 | 0.50 | Not detected | 0.50 |
| Chromium, total | | | 11.5 | 0.50 | 14.2 | 0.50 |
| Lead, total | | | 395 | 0.50 | 140 | 0.50 |
| Selenium, total | | | 1.33 | 1.00 | Not detected | 1.00 |
| Silver, total | | | Not detected | 0.50 | Not detected | 0.50 |
| Mercury | SW846-7471 | mg/kG | 0.34 | 0.25 | Not detected | 0.25 |

| Client Sample ID | | | SS-5 | | SS-6 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 01080459-07 | | 01080459-08 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1221 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1232 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1242 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1248 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1254 | | | Not detected | 0.02 | 0.06 | 0.02 |
| PCB 1260 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB, Total | | | Not detected | 0.02 | 0.06 | 0.02 |
| Total RCRA Metals | SW846 | mg/kG | --- | --- | --- | --- |
| Arsenic, total | | | 7.50 | 1.00 | 11.0 | 1.00 |
| Barium, total | | | 128 | 0.50 | 231 | 0.50 |
| Cadmium, total | | | Not detected | 0.50 | 3.37 | 0.50 |
| Chromium, total | | | 17.3 | 0.50 | 11.6 | 0.50 |
| Lead, total | | | 319 | 0.50 | 470 | 0.50 |
| Selenium, total | | | Not detected | 1.00 | Not detected | 1.00 |
| Silver, total | | | Not detected | 0.50 | Not detected | 0.50 |
| Mercury | SW846-7471 | mg/kG | 0.42 | 0.25 | 0.92 | 0.25 |

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| Client Sample ID | | | RD-7 | |
|---|---|---|---|---|
| York Sample ID | | | 01080459-09 | |
| Matrix | | | WATER | |
| Parameter | Method | Units | Results | MDL |
| Total RCRA Metals | SW846 | mg/L | --- | --- |
| Arsenic, total | | | Not detected | 0.010 |
| Barium, total | | | 0.075 | 0.005 |
| Cadmium, total | | | Not detected | 0.005 |
| Chromium, total | | | Not detected | 0.005 |
| Lead, total | | | Not detected | 0.005 |
| Selenium, total | | | Not detected | 0.010 |
| Silver, total | | | Not detected | 0.005 |
| Mercury | SW-7470 | mg/L | Not detected | 0.0002 |

**Units Key:** For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

## Notes for York Project No. 01080459

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

**Approved By:** Robert Q. Bradley
Managing Director

**Date:** 8/29/2001

YORK

**YORK**
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

# Field Chain-of-Custody Record

| Company Name | Report To: | Invoice To: | Project ID/No. | Samples Collected By (Signature) / Name (Printed) |
|---|---|---|---|---|
| Ecosystems Strategies, Inc. | Jonathan Kaplan | Pam Q | SB2096.40 | Jonathan Teubl, JK, KW |

| Sample No. | Location/ID | Date Sampled | Sample Matrix: Water | Soil | Air | OTHER | ANALYSES REQUESTED | Container Description |
|---|---|---|---|---|---|---|---|---|
| | CS-1 | 8-17-01 | | X | | | RCRA metals (Method 6010), pesticides (Method 8082), PCBs (Method 8081), VOCs (Methods 8260), SVOCs (both base neutral and acid extractable as per Method 8270), dioxins, furans (Method 8270) and total organic carbon. | 1 8oz j |
| | CS-2 | " | | X | | | Same as CS-1 | 1 8oz ja |
| | | | | | | | | |
| | | | | | | | | |

**Chain-of-Custody Record**

| Bottles Relinquished from Lab by | Date/Time | Sample Relinquished by | Date/Time | Sample Received by | Date/Time |
|---|---|---|---|---|---|
| | | | 8-20-01 13:20 | R. Van Doosen | 8/20/01 13:20 |
| Bottles Received in Field by | Date/Time | Sample Relinquished by | Date/Time | Sample Received in LAB by | Date/Time |
| | | | | | 8-20-01 17 |

*Comments/Special Instructions*

**Turn-Around Time**

___Standard ___RUSH(define)_____

**YORK**
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166



# Field Chain-of-Custody Record

| Company Name | Report To: | Invoice To: | Project ID/No. | |
|---|---|---|---|---|
| Ecosystems strategies, Inc | Jonathan Kaplan | Pam Q | SB2096.40 | Jonathan Teubl<br>Samples Collected By (Signature)<br>Jonathan Teubl, JK, KW<br>Name (Printed) |

| Sample No. | Location/ID | Date Sampled | Sample Matrix: Water | Soil | Air | OTHER | ANALYSES REQUESTED | Container Description(s |
|---|---|---|---|---|---|---|---|---|
| | SS-1 0"-4" | 8-17-01 | | X | | | RCRA metals (total wt.) and | 1 8oz jar |
| | | | | | | | PCBs (EPA method 8082) | |
| | SS-2 0"-4" | | | | | | " | |
| | SS-3 0"-4" | | | | | | RCRA metals (total wt), PCBs | |
| | | | | | | | (Method 8082), VOCs (Method 8260) and SVOCs (Method 8270) | |
| | SS-4 0"-4" | | | | | | " | |
| | SS-5 0"-4" | | | | | | RCRA metals (total wt.) and | |
| | | | | | | | PCBs (EPA method 8082) | |
| | SS-6 0"-4" | | | X | | | " | X |
| | RD-7 | X | X | | | | RCRA metals (EPA Method 6010) | 2 32oz ja |

**Chain-of-Custody Record**

| | | | | | |
|---|---|---|---|---|---|
| | Bottles Relinquished from Lab by | Date/Time | | Sample Relinquished by | 8/20/01 3:20 pm Date/Time |
| | Bottles Received in Field by | Date/Time | | Sample Relinquished by | Date/Time |
| R. Van Deusen | Sample Received by | 8/20/01 3:20 Date/Time | | | |
| | Sample Received in LAB by | 8-20-01 17 Date/Time | | | |

*Comments/Special Instructions*

**Turn-Around Time**

___Standard ___RUSH(define)_____

**Ecosystems Strategies, Inc.** *Environmental Services and Solutions*

60 Worrall Avenue, Poughkeepsie, New York 12603-2332 TEL: 845-452-1658 • FAX: 845-485-7083 • EMAIL: ecosys@idsi.net

# TRANSMITTAL COVER SHEET

**DATE:** October 4, 2001 **PAGES**: 19 (including cover sheet)

**TO:** Marge Groten (Scenic Hudson)

**FAX:** 845-473-2648 **PHONE:** 845-473-4440

**RE:** Ferry Street, Beacon, New York
ESI File Number: SB2096.40

**COMMENTS:**

Please find our Summary of Additional Laboratory Data including maps and tables for the above-referenced site. Please review and contact me at 845-452-1658 should you have any questions.

_√_ Please confirm receipt ____ No reply necessary

**Hard copy to follow:** ☒ U.S. Mail ☐ Priority Mail ☐ Express Mail
☐ Federal Express ☐ Airborne Express ☐ None

cc: File
J. Moloughney, NYSDEC-Albany 518-402-9577fax/518-402-9671ph
V. McMillan, Lewis and Greer, PC 845-454-3315fax/845-454-1200ph

From the desk of ...
Paul H. Ciminello
Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, New York 12603

(845) 452-1658
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If you do not receive all transmitted pages, please contact us immediately at (845) 452-1658.

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**Ecosystems Strategies, Inc.**

*Environmental Services and Solutions*

60 Worrall Avenue, Poughkeepsie, NY 12603-2332

TEL: 845-452-1658 • FAX: 845-485-7083 • EMAIL: ecosys@idsi.net

September 21, 2001

Margery Groten
Scenic Hudson Land Trust, Inc.
9 Vassar Street
Poughkeepsie, NY 12601

Re: Summary of Additional Laboratory Data for Investigation Conducted at the Barney Cohen Property Located on Ferry Street, City of Beacon, Dutchess County, New York
ESI File: SB2096.40

Dear Ms. Groten:

This letter summarizes laboratory data from additional soil samples collected in August 2001 on the above-referenced property. The expressed purpose of this additional investigative work was to provide more soil sample data to the NYSDEC as a means of characterizing the site and documenting the presence or absence of specific contaminants which had not been previously analyzed for, as well as to document the presence of known contaminants at levels greater than previous data indicated. All soil samples were collected in areas previously reviewed with the NYSDEC; the locations of additional soil samples are shown on the attached map. Copies of laboratory results are also attached to this letter.

**Soil Data**

Two composite surface soil samples (CS-1and CS-2) were obtained from the former burn area of the site. Each of these samples was obtained from three discreet locations. This burn area is located in the eastern portion of the site and was identified and visually marked with survey/caution ribbon. Soil samples collected from CS-1 and CS-2 were screened for pesticides utilizing USEPA Method 8081, VOCs utilizing Method 8260, SVOCs (both base neutral and acid extractable compounds) as per USEPA Method 8270, dioxins and furans (low resolution USEPA Method 8270), PCBs utilizing USEPA Method 8082, total weight RCRA Metals utilizing USEPA Method 6010 and total organic carbon. In addition, six surface soil samples (SS-1 - SS-6) were collected throughout the site, as shown on the attached map.

Soil samples were analyzed for total weight metals, and the resulting data are summarized in Table 1, below. Data indicate consistent exceedances of action levels for arsenic and lead, with only minor exceedances of action levels for chromium and mercury. No exceedances were identified for barium, cadmium, selenium, or silver. With the exception of SS-2 for lead and CS-2 for arsenic, all exceedances were less than two times the respective action level. That is, in general exceedances were marginal and therefore do not represent definable areas of substantial contamination.

Soil samples were also analyzed for various organic compounds, including PCBs, VOCs, and SVOCs. The resulting data are summarized in Table 2, below. Consistent exceedances are noted for SVOCs within the burn area (CS-1 and CS-2). These levels support field observations of petroleum-stained soils. With one minor exception, no SVOC exceedances were noted in soil samples outside of the burn areas, consistent with field observations.

PCB levels outside of the burn area (the area subject to proposed remedial action) were below the surface soil action level of 1,000 ppb, with the exception of SS-2 (1,100 ppb). Both samples within the burn area (CS-1 and CS-2) were at or near the PCB action level.

No detectable concentrations of VOCs, pesticides, or dioxins were identified in CS-1, CS-2, SS-3, or SS-4.

**Groundwater Sample**

A single water sample was obtained from the remaining on-site monitoring well (RD-7) located in the south center of the site. A water sample was obtained from RD-7 and analyzed for dissolved RCRA Metals utilizing USEPA Method 6010. Barium was detected at 0.075 ppm. No additional dissolved metals were noted in the water sample obtained from this well.

**Conclusions**

Data confirm the presence of low levels of PCBs in on-site soils, with the primary concentration of PCBs remaining in the former burn areas. These soils are proposed to be removed.

Data also suggest the presence of elevated lead in surface soils throughout the site. Other metals do not appear to be present in surface soils at levels warranting remedial actions. The presence of elevated metals is not unusual given the formation of the property using urban fill, the former use of the property as a metal storage facility and the location of this site in an urban area. Metal levels warrant the implementation of actions (e.g., importation of certified clean fill) to prevent direct contact with existing surface soils. Finally, the absence of furans and dioxin in the burn area support the conclusion that the presence of PCBs in the burn areas was not the result of burning. The presence of SVOCs at concentrations exceeding action levels is consistent with field observations and does not represent a condition warranting remediation beyond the soil removal actions proposed in this area. These results are consistent with previous sampling results and estimates concerning the scope of remediation.

Please review this letter and contact me at 845-452-1658 should you have any questions or comments.

Sincerely,

ECOSYSTEMS STRATEGIES, INC.

Paul H. Ciminello
President

PHC/aw

cc: File
J. Moloughney, NYSDEC-Albany
V. McMillan, Lewis and Greer, PC

F:\DATA\WPDATA\PROJECTS\2000\SB2096\SB2096-40\sb2096-40 LTR TO DEC RESULTS.WPD

**Table 1: Summary of PCBs in Soil Samples - June 2000 - "Barney Cohen" Property, City of Beacon, Dutchess County, New York** (Results in **bold** exceed designated action levels. All results measured in $\mu$g/kg.)

| Compound (Method 8082) | Action Level[1] | SAMPLE IDENTIFICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | Re-analyses | | |
| | | HB-9 (0-1') | HB-10 (0-1') | HB-11 (0-1') | HB-9 (0-1') | HB-10 (0-1') | HB-11 (0-1') |
| PCB-1016 | 1,000 | 80 | **5,400** | 240 | ND | ND | ND |
| PCB-1221 | 1,000 | ND | ND | ND | ND | ND | ND |
| PCB-1232 | 1,000 | ND | ND | ND | ND | ND | ND |
| PCB-1242 | 1,000 | ND | ND | ND | ND | ND | ND |
| PCB-1248 | 1,000 | ND | ND | ND | ND | ND | ND |
| PCB-1254 | 1,000 | 260 | **8,100** | 570 | 540 | **12,400** | 730 |
| PCB-1260 | 1,000 | 14 | ND | ND | 380 | **5,320** | 290 |
| PCB-Total | 1,000 | 480 | **13,500** | 810 | 920 | **17,720** | **1,020** |

Notes:
1. Action level for PCBs is 1,000 $\mu$g/kg for surface soils; 10,000 $\mu$g/kg for subsurface soils pursuant to the NYSDEC Technical Administrative Guidance Memorandum #4046 (TAGM) Revised January 24, 1994, as modified by subsequent, relevant records of decision (RODs).
2. ND = Not Detected above specified detection limit.

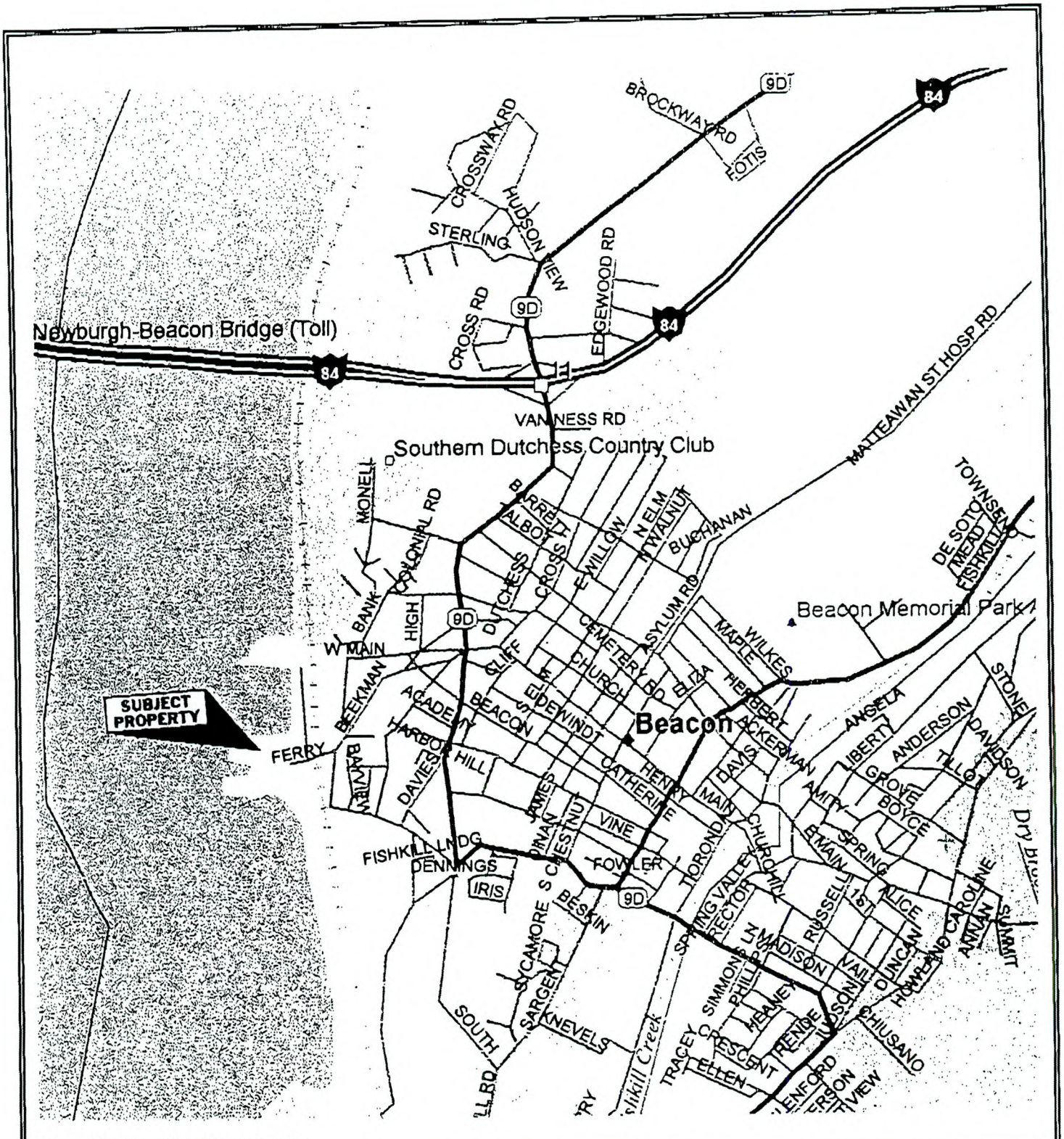
**Table 2: Summary of PCBs in Soil Samples - August 2000 - "Barney Cohen" Property, City of Beacon, Dutchess County, New York** (Results in **bold** exceed designated action levels. All results measured in μg/kg.)

| Compound (Method 8082) | Action Level[1] | SAMPLE IDENTIFICATION | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 2HB-1 (0'-0.5') | 2HB-1 (4'-5') | 2HB-2 (0'-0.5') | 2HB-3 (0'-0.5') | 2HB-3 (4'-5') | 2HB-4 (0'-0.5') | 2HB-4 (3'-5') |
| PCB-1016 | 1,000 | 40 | 30 | 80 | 100 | 820 | 40 | ND |
| PCB-1221 | 1,000 | ND | ND | ND | ND | ND | ND | ND |
| PCB-1232 | 1,000 | ND | ND | ND | ND | ND | ND | ND |
| PCB-1242 | 1,000 | ND | ND | ND | ND | ND | ND | ND |
| PCB-1248 | 1,000 | ND | ND | ND | ND | ND | ND | ND |
| PCB-1254 | 1,000 | 400 | 120 | 520 | 200 | 480 | 120 | ND |
| PCB-1260 | 1,000 | 150 | ND | ND | 180 | 190 | 90 | ND |
| Total PCBs | 1,000 | 590 | 150 | 600 | 480 | 1,500 | 250 | ND |

Notes: 1. Action level for PCBs is 1,000 μg/kg for surface soils; 10,000 μg/kg for subsurface soils pursuant to the NYSDEC Technical Administrative Guidance Memorandum #4046 (TAGM) Revised January 24, 1994 as modified by subsequent, relevant records of decision (RODs).
2. ND = Not Detected above specified detection limit.

| Compound (Method 8082) | Action Level[1] | SAMPLE IDENTIFICATION | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 2HB-5 (0'-0.5') | 2HB-5 (5'-6') | 2HB-6 (0'-0.5') | 2HB-6 (4'-6') | 2HB-7 (0'-0.5') | 2HB-7 (4'-6') | 2HB-8 (0'-0.5') | 2HB-8 (3'-4') |
| PCB-1016 | 1,000 | 170 | ND | 100 | 30 | 670 | ND | 280 | ND |
| PCB-1221 | 1,000 | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB-1232 | 1,000 | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB-1242 | 1,000 | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB-1248 | 1,000 | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB-1254 | 1,000 | ND | 270 | 450 | 180 | 540 | ND | 130 | 110 |
| PCB-1260 | 1,000 | 380 | 200 | ND | ND | ND | ND | 430 | ND |
| Total PCBs | 1,000 | 550 | 470 | 550 | 210 | 1,200 | ND | 2,000 | 110 |

Notes: 1. Action level for PCBs is 1,000 μg/kg for surface soils; 10,000 μg/kg for subsurface soils pursuant to the NYSDEC Technical Administrative Guidance Memorandum #404 (TAGM) Revised January 24, 1994, as modified by subsequent, relevant records of decision (RODs).
2. ND = Not Detected above specified detection limit.

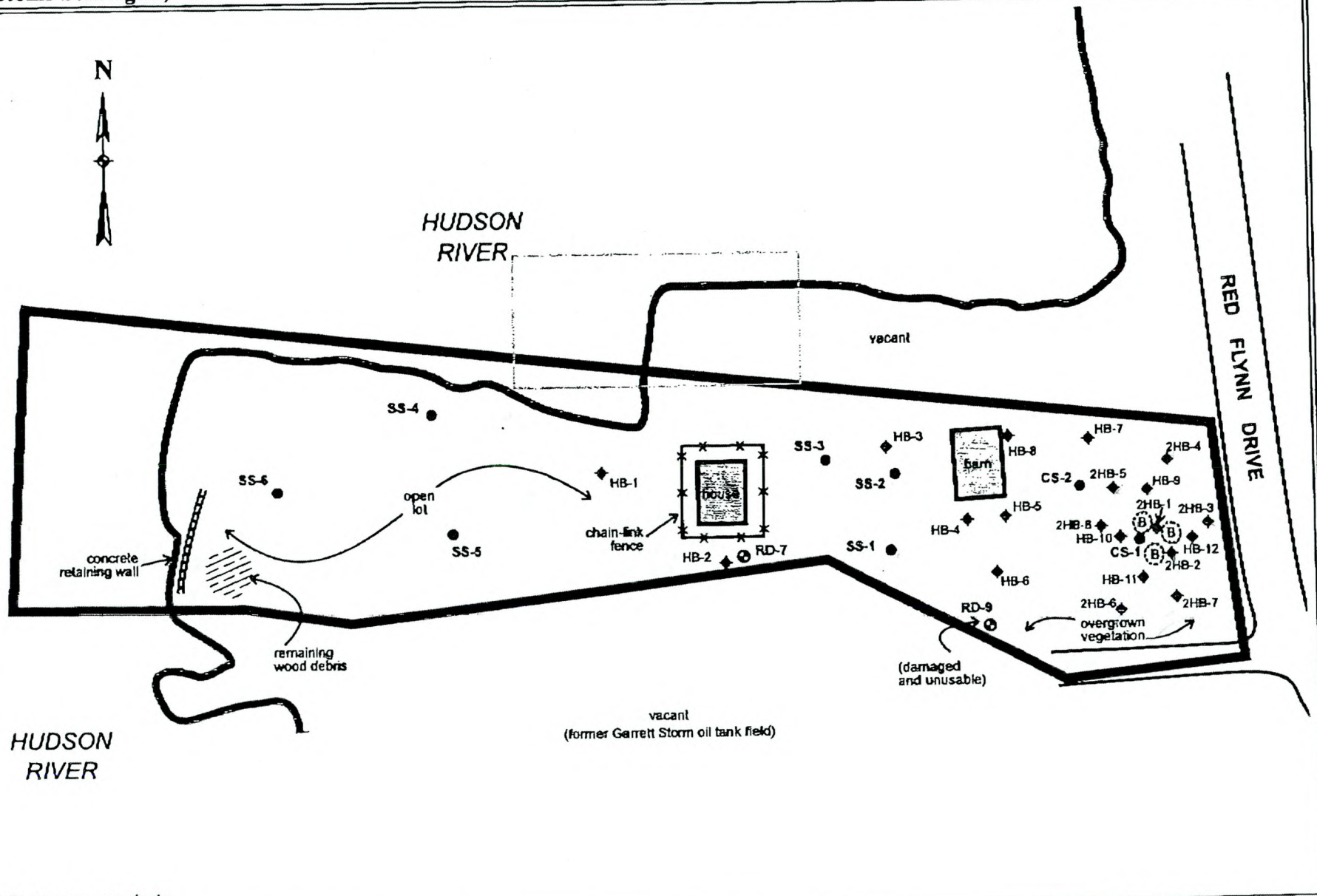



Source: Hagstrom Map Company, 1997

**Site Location Map**
"Beacon Salvage"
Red Flynn Drive
City of Beacon, Dutchess County, New York

N

ESI File: SB2096.40
Date: September 2001
Attachment A




Feature locations are approximate.

# Selected Site Features Map

"Beacon Salvage"
Red Flynn Drive
City of Beacon
Dutchess County, New York

Legend:
- subject property border
- burn spot (B)
- former hand boring location/samples taken 6/30/00 HB-2◆
- former hand boring location/samples taken 8/15/00 2HB-2◆
- surface soil SS-1 ●
- monitoring well RD-1 ⊕
- composite sample CS-1 ●

ESI File: SB2096.40
September 2001
Scale: 1" = 100' (approximately)
Attachment A

10/04/2001 13:20 4857083 PAGE 07

YORK
ANALYTICAL LABORATORIES, INC.

AUG 31 2001

# Technical Report

prepared for

**Ecosystems Strategies, Inc.**
**60 Worrall Avenue**
**Poughkeepsie, NY 12603**
**Attention: Jonathan A. Kaplan**

Report Date: 8/29/2001
***Re: Client Project ID: SB2096.40***
York Project No.: 01080459

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 EPA I.D. No. CT00106

nelac nelap

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 8/29/2001
Client Project ID: SB2096.40
York Project No.: 01080459

**Ecosystems Strategies, Inc.**
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Jonathan A. Kaplan

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 08/20/01. The project was identifed as your project "SB2096.40 ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

### *Analysis Results*

| Client Sample ID | | | CS-1 | | CS-2 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 01080459-01 | | 01080459-02 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| Pesticides 8080 List soil | SW846-3550B/8081 | ug/Kg | --- | --- | --- | --- |
| 4,4'-DDD | | | Not detected | 10 | Not detected | 10 |
| 4,4'-DDE | | | Not detected | 10 | Not detected | 10 |
| 4,4'-DDT | | | Not detected | 10 | Not detected | 10 |
| Aldrin | | | Not detected | 10 | Not detected | 10 |
| alpha-BHC | | | Not detected | 10 | Not detected | 10 |
| beta-BHC | | | Not detected | 10 | Not detected | 10 |
| Chlordane | | | Not detected | 50 | Not detected | 50 |
| delta-BHC | | | Not detected | 10 | Not detected | 10 |
| Dieldrin | | | Not detected | 10 | Not detected | 10 |
| Endosulfan I | | | Not detected | 10 | Not detected | 10 |
| Endosulfan II | | | Not detected | 10 | Not detected | 10 |
| Endosulfan sulfate | | | Not detected | 10 | Not detected | 10 |
| Endrin | | | Not detected | 10 | Not detected | 10 |
| Endrin aldehyde | | | Not detected | 10 | Not detected | 10 |
| gamma-BHC (Lindane) | | | Not detected | 10 | Not detected | 10 |
| Heptachlor | | | Not detected | 10 | Not detected | 10 |

YORK

| Client Sample ID | | | CS-1 | | CS-2 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 01080459-01 | | 01080459-02 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| Heptachlor epoxide | | | Not detected | 10 | Not detected | 10 |
| Methoxychlor | | | Not detected | 500 | Not detected | 500 |
| Toxaphene | | | Not detected | 500 | Not detected | 500 |
| **Volatiles-8260 list** | SW846-8260 | ug/Kg | --- | --- | --- | --- |
| 1,1,1,2-Tetrachloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1,1-Trichloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1,2,2-Tetrachloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1,2-Trichloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1-Dichloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1-Dichloroethylene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1-Dichloropropylene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2,3-Trichlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2,3-Trichloropropane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2,3-Trimethylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2,4-Trichlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2,4-Trimethylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dibromo-3-chloropropane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dibromoethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dichlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dichloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dichloroethylene (Total) | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dichloropropane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,3,5-Trimethylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,3-Dichlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,3-Dichloropropane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,4-Dichlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1-Chlorohexane | | | Not detected | 5.0 | Not detected | 5.0 |
| 2,2-Dichloropropane | | | Not detected | 5.0 | Not detected | 5.0 |
| 2-Chlorotoluene | | | Not detected | 5.0 | Not detected | 5.0 |
| 4-Chlorotoluene | | | Not detected | 5.0 | Not detected | 5.0 |
| Benzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Bromobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Bromochloromethane | | | Not detected | 50 | Not detected | 50 |
| Bromodichloromethane | | | Not detected | 50 | Not detected | 50 |
| Bromoform | | | Not detected | 5.0 | Not detected | 5.0 |
| Bromomethane | | | Not detected | 50 | Not detected | 50 |
| Carbon tetrachloride | | | Not detected | 5.0 | Not detected | 5.0 |
| Chlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Chloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| Chloroform | | | Not detected | 50 | Not detected | 50 |
| Chloromethane | | | Not detected | 50 | Not detected | 50 |
| cis-1,3-Dichloropropylene | | | Not detected | 5.0 | Not detected | 5.0 |
| Dibromochloromethane | | | Not detected | 5.0 | Not detected | 5.0 |
| Dibromomethane | | | Not detected | 5.0 | Not detected | 5.0 |
| Dichlorodifluoromethane | | | Not detected | 5.0 | Not detected | 5.0 |
| Ethylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Hexachlorobutadiene | | | Not detected | 5.0 | Not detected | 5.0 |
| Isopropylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Methylene chloride | | | Not detected | 5.0 | Not detected | 5.0 |
| Naphthalene | | | Not detected | 5.0 | Not detected | 5.0 |
| n-Butylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |

YORK

| Client Sample ID | | | CS-1 | | CS-2 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 01080459-01 | | 01080459-02 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| n-Propylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| o-Xylene | | | Not detected | 5.0 | Not detected | 5.0 |
| p- & m-Xylenes | | | Not detected | 5.0 | Not detected | 5.0 |
| p-Isopropyltoluene | | | Not detected | 5.0 | Not detected | 5.0 |
| sec-Butylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Styrene | | | Not detected | 5.0 | Not detected | 5.0 |
| tert-Butylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Tetrachloroethylene | | | Not detected | 5.0 | Not detected | 5.0 |
| Toluene | | | Not detected | 5.0 | Not detected | 5.0 |
| trans-1,3-Dichloropropylene | | | Not detected | 5.0 | Not detected | 5.0 |
| Trichloroethylene | | | Not detected | 5.0 | Not detected | 5.0 |
| Trichlorofluoromethane | | | Not detected | 5.0 | Not detected | 5.0 |
| Vinyl chloride | | | Not detected | 50 | Not detected | 50 |
| **BNA-8270 List soil** | SW846-8270 | ug/Kg | --- | --- | --- | --- |
| 1,2,4-Trichlorobenzene | | | Not detected | 660 | Not detected | 660 |
| 1,2-Dichlorobenzene | | | Not detected | 660 | Not detected | 660 |
| 1,3-Dichlorobenzene | | | Not detected | 660 | Not detected | 660 |
| 1,4-Dichlorobenzene | | | Not detected | 660 | Not detected | 660 |
| 2,4,5-Trichlorophenol | | | Not detected | 660 | Not detected | 660 |
| 2,4,6-Trichlorophenol | | | Not detected | 660 | Not detected | 660 |
| 2,4-Dichlorophenol | | | Not detected | 660 | Not detected | 660 |
| 2,4-Dimethylphenol | | | Not detected | 660 | Not detected | 660 |
| 2,4-Dinitrophenol | | | Not detected | 3400 | Not detected | 3400 |
| 2,4-Dinitrotoluene | | | Not detected | 660 | Not detected | 660 |
| 2,6-Dinitrotoluene | | | Not detected | 660 | Not detected | 660 |
| 2-Chloronaphthalene | | | Not detected | 660 | Not detected | 660 |
| 2-Chlorophenol | | | Not detected | 660 | Not detected | 660 |
| 2-Methylnaphthalene | | | Not detected | 660 | Not detected | 660 |
| 2-Methylphenol | | | Not detected | 660 | Not detected | 660 |
| 2-Nitroaniline | | | Not detected | 3400 | Not detected | 3400 |
| 2-Nitrophenol | | | Not detected | 660 | Not detected | 660 |
| 3,3'-Dichlorobenzidine | | | Not detected | 660 | Not detected | 660 |
| 3-Nitroaniline | | | Not detected | 3400 | Not detected | 3400 |
| 4,6-Dinitro-2-methylphenol | | | Not detected | 3400 | Not detected | 3400 |
| 4-Bromophenyl phenyl ether | | | Not detected | 660 | Not detected | 660 |
| 4-Chloro-3-methyl phenol | | | Not detected | 660 | Not detected | 660 |
| 4-Chloroaniline | | | Not detected | 660 | Not detected | 660 |
| 4-Chlorophenyl phenyl ether | | | Not detected | 660 | Not detected | 660 |
| 4-Methylphenol | | | Not detected | 660 | Not detected | 660 |
| 4-Nitroaniline | | | Not detected | 3400 | Not detected | 3400 |
| 4-Nitrophenol | | | Not detected | 3400 | Not detected | 3400 |
| Acenaphthene | | | Not detected | 660 | Not detected | 660 |
| Acenaphthylene | | | Not detected | 660 | Not detected | 660 |
| Anthracene | | | Not detected | 660 | Not detected | 660 |
| Benzo(a)anthracene | | | 2700 | 660 | 2100 | 660 |
| Benzo(a)pyrene | | | 1900 | 660 | 2100 | 660 |
| Benzo(b)fluoranthene | | | 1900 | 660 | 2200 | 660 |
| Benzo(g,h,i)perylene | | | Not detected | 660 | 670 | 660 |
| Benzo(k)fluoranthene | | | 2600 | 660 | 2500 | 660 |
| Benzyl alcohol | | | Not detected | 660 | Not detected | 660 |
| Bis(2-chloroethoxy)methane | | | Not detected | 660 | Not detected | 660 |

YORK

| Client Sample ID | | | CS-1 | | CS-2 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 01080459-01 | | 01080459-02 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| Bis(2-chloroethyl)ether | | | Not detected | 660 | Not detected | 660 |
| Bis(2-chloroisopropyl)ether | | | Not detected | 660 | Not detected | 660 |
| Bis(2-ethylhexyl)phthalate | | | Not detected | 660 | Not detected | 660 |
| Butyl benzyl phthalate | | | Not detected | 660 | Not detected | 660 |
| Chrysene | | | 3000 | 660 | 2500 | 660 |
| Dibenz(a,h)anthracene | | | Not detected | 660 | Not detected | 660 |
| Dibenzofuran | | | Not detected | 660 | Not detected | 660 |
| Diethylphthalate | | | Not detected | 660 | Not detected | 660 |
| Dimethylphthalate | | | Not detected | 660 | Not detected | 660 |
| Di-n-butylphthalate | | | Not detected | 660 | Not detected | 660 |
| Di-n-octylphthalate | | | Not detected | 660 | Not detected | 660 |
| Fluoranthene | | | 4500 | 660 | 4200 | 660 |
| Fluorene | | | Not detected | 660 | Not detected | 660 |
| Hexachlorobenzene | | | Not detected | 660 | Not detected | 660 |
| Hexachlorobutadiene | | | Not detected | 660 | Not detected | 660 |
| Hexachlorocyclopentadiene | | | Not detected | 660 | Not detected | 660 |
| Hexachloroethane | | | Not detected | 660 | Not detected | 660 |
| Indeno(1,2,3-cd)pyrene | | | Not detected | 660 | 870 | 660 |
| Isophorone | | | Not detected | 660 | Not detected | 660 |
| Naphthalene | | | Not detected | 660 | Not detected | 660 |
| Nitrobenzene | | | Not detected | 660 | Not detected | 660 |
| N-Nitrosodi-n-propylamine | | | Not detected | 660 | Not detected | 660 |
| N-Nitrosodiphenylamine | | | Not detected | 660 | Not detected | 660 |
| Pentachlorophenol | | | Not detected | 3400 | Not detected | 3400 |
| Phenanthrene | | | 2100 | 660 | 2400 | 660 |
| Phenol | | | Not detected | 660 | Not detected | 660 |
| Pyrene | | | 4300 | 660 | 3700 | 660 |
| **PCB** | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | 0.32 | 0.02 | 0.14 | 0.02 |
| PCB 1221 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1232 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1242 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1248 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1254 | | | 0.57 | 0.02 | 0.54 | 0.02 |
| PCB 1260 | | | 0.24 | 0.02 | 0.13 | 0.02 |
| PCB, Total | | | 1.1 | 0.02 | 0.81 | 0.02 |
| **Total RCRA Metals** | SW846 | mg/kG | --- | --- | --- | --- |
| Arsenic, total | | | 12.8 | 1.00 | 26.6 | 1.00 |
| Barium, total | | | 143 | 0.50 | 151 | 0.50 |
| Cadmium, total | | | 4.21 | 0.50 | 2.09 | 0.50 |
| Chromium, total | | | 57.5 | 0.50 | 39.2 | 0.50 |
| Lead, total | | | 472 | 0.50 | 404 | 0.50 |
| Selenium, total | | | Not detected | 1.00 | Not detected | 1.00 |
| Silver, total | | | 0.95 | 0.50 | 0.67 | 0.50 |
| Mercury | SW846-7471 | mg/kG | Not detected | 0.25 | 0.25 | 0.25 |
| Tetrachlorodibenzofurans(TCDF) | SW846-8270 | ug/kg | Not detected | 33 | Not detected | 33 |
| 2,3,7,8-TCDD (Dioxin) | SW846-8270 | ug/kg | Not detected | 33 | Not detected | 33 |
| Total Organic Carbon | SM | mg/kg | 124 | 0.10 | 120 | 0.10 |

YORK

| Client Sample ID | | | SS-1 | | SS-2 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 01080459-03 | | 01080459-04 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | 0.43 | 0.02 | 0.15 | 0.02 |
| PCB 1221 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1232 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1242 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1248 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1254 | | | 0.31 | 0.02 | 0.94 | 0.02 |
| PCB 1260 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB, Total | | | 0.74 | 0.02 | 1.1 | 0.02 |
| Total RCRA Metals | SW846 | mg/kG | --- | --- | --- | --- |
| Arsenic, total | | | 14.2 | 1.00 | 17.4 | 1.00 |
| Barium, total | | | 157 | 0.50 | 194 | 0.50 |
| Cadmium, total | | | 1.48 | 0.50 | 8.87 | 0.50 |
| Chromium, total | | | 13.7 | 0.50 | 18.7 | 0.50 |
| Lead, total | | | 558 | 0.50 | 3950 | 0.50 |
| Selenium, total | | | Not detected | 1.00 | Not detected | 1.00 |
| Silver, total | | | Not detected | 0.50 | 1.88 | 0.50 |
| Mercury | SW846-7471 | mg/kG | 0.35 | 0.25 | 1.14 | 0.25 |

| Client Sample ID | | | SS-3 | | SS-4 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 01080459-05 | | 01080459-06 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| Volatiles-8260 list | SW846-8260 | ug/Kg | --- | --- | --- | --- |
| 1,1,1,2-Tetrachloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1,1-Trichloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1,2,2-Tetrachloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1,2-Trichloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1-Dichloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1-Dichloroethylene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,1-Dichloropropylene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2,3-Trichlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2,3-Trichloropropane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2,3-Trimethylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2,4-Trichlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2,4-Trimethylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dibromo-3-chloropropane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dibromoethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dichlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dichloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dichloroethylene (Total) | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,2-Dichloropropane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,3,5-Trimethylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,3-Dichlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,3-Dichloropropane | | | Not detected | 5.0 | Not detected | 5.0 |
| 1,4-Dichlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| 1-Chlorohexane | | | Not detected | 5.0 | Not detected | 5.0 |
| 2,2-Dichloropropane | | | Not detected | 5.0 | Not detected | 5.0 |

YORK

| Client Sample ID | | | SS-3 | | SS-4 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 01080459-05 | | 01080459-06 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| 2-Chlorotoluene | | | Not detected | 5.0 | Not detected | 5.0 |
| 4-Chlorotoluene | | | Not detected | 5.0 | Not detected | 5.0 |
| Benzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Bromobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Bromochloromethane | | | Not detected | 50 | Not detected | 50 |
| Bromodichloromethane | | | Not detected | 50 | Not detected | 50 |
| Bromoform | | | Not detected | 5.0 | Not detected | 5.0 |
| Bromomethane | | | Not detected | 50 | Not detected | 50 |
| Carbon tetrachloride | | | Not detected | 5.0 | Not detected | 5.0 |
| Chlorobenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Chloroethane | | | Not detected | 5.0 | Not detected | 5.0 |
| Chloroform | | | Not detected | 50 | Not detected | 50 |
| Chloromethane | | | Not detected | 50 | Not detected | 50 |
| cis-1,3-Dichloropropylene | | | Not detected | 5.0 | Not detected | 5.0 |
| Dibromochloromethane | | | Not detected | 5.0 | Not detected | 5.0 |
| Dibromomethane | | | Not detected | 5.0 | Not detected | 5.0 |
| Dichlorodifluoromethane | | | Not detected | 5.0 | Not detected | 5.0 |
| Ethylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Hexachlorobutadiene | | | Not detected | 5.0 | Not detected | 5.0 |
| Isopropylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Methylene chloride | | | Not detected | 5.0 | Not detected | 5.0 |
| Naphthalene | | | Not detected | 5.0 | Not detected | 5.0 |
| n-Butylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| n-Propylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| o-Xylene | | | Not detected | 5.0 | Not detected | 5.0 |
| p- & m-Xylenes | | | Not detected | 5.0 | Not detected | 5.0 |
| p-Isopropyltoluene | | | Not detected | 5.0 | Not detected | 5.0 |
| sec-Butylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Styrene | | | Not detected | 5.0 | Not detected | 5.0 |
| tert-Butylbenzene | | | Not detected | 5.0 | Not detected | 5.0 |
| Tetrachloroethylene | | | Not detected | 5.0 | Not detected | 5.0 |
| Toluene | | | Not detected | 5.0 | Not detected | 5.0 |
| trans-1,3-Dichloropropylene | | | Not detected | 5.0 | Not detected | 5.0 |
| Trichloroethylene | | | Not detected | 5.0 | Not detected | 5.0 |
| Trichlorofluoromethane | | | Not detected | 5.0 | Not detected | 5.0 |
| Vinyl chloride | | | Not detected | 50 | Not detected | 50 |
| **BNA-8270 List soil** | SW846-8270 | ug/Kg | --- | --- | --- | --- |
| 1,2,4-Trichlorobenzene | | | Not detected | 660 | Not detected | 330 |
| 1,2-Dichlorobenzene | | | Not detected | 660 | Not detected | 330 |
| 1,3-Dichlorobenzene | | | Not detected | 660 | Not detected | 330 |
| 1,4-Dichlorobenzene | | | Not detected | 660 | Not detected | 330 |
| 2,4,5-Trichlorophenol | | | Not detected | 660 | Not detected | 330 |
| 2,4,6-Trichlorophenol | | | Not detected | 660 | Not detected | 330 |
| 2,4-Dichlorophenol | | | Not detected | 660 | Not detected | 330 |
| 2,4-Dimethylphenol | | | Not detected | 660 | Not detected | 330 |
| 2,4-Dinitrophenol | | | Not detected | 3400 | Not detected | 1700 |
| 2,4-Dinitrotoluene | | | Not detected | 660 | Not detected | 330 |
| 2,6-Dinitrotoluene | | | Not detected | 660 | Not detected | 330 |
| 2-Chloronaphthalene | | | Not detected | 660 | Not detected | 330 |
| 2-Chlorophenol | | | Not detected | 660 | Not detected | 330 |
| 2-Methylnaphthalene | | | Not detected | 660 | Not detected | 330 |

YORK

| Client Sample ID | | | SS-3 | | SS-4 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 01080459-05 | | 01080459-06 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| 2-Methylphenol | | | Not detected | 660 | Not detected | 330 |
| 2-Nitroaniline | | | Not detected | 3400 | Not detected | 1700 |
| 2-Nitrophenol | | | Not detected | 660 | Not detected | 330 |
| 3,3'-Dichlorobenzidine | | | Not detected | 660 | Not detected | 330 |
| 3-Nitroaniline | | | Not detected | 3400 | Not detected | 1700 |
| 4,6-Dinitro-2-methylphenol | | | Not detected | 3400 | Not detected | 1700 |
| 4-Bromophenyl phenyl ether | | | Not detected | 660 | Not detected | 330 |
| 4-Chloro-3-methyl phenol | | | Not detected | 660 | Not detected | 330 |
| 4-Chloroaniline | | | Not detected | 660 | Not detected | 330 |
| 4-Chlorophenyl phenyl ether | | | Not detected | 660 | Not detected | 330 |
| 4-Methylphenol | | | Not detected | 660 | Not detected | 330 |
| 4-Nitroaniline | | | Not detected | 3400 | Not detected | 1700 |
| 4-Nitrophenol | | | Not detected | 3400 | Not detected | 1700 |
| Acenaphthene | | | Not detected | 660 | Not detected | 330 |
| Acenaphthylene | | | Not detected | 660 | Not detected | 330 |
| Anthracene | | | Not detected | 660 | Not detected | 330 |
| Benzo(a)anthracene | | | Not detected | 660 | Not detected | 330 |
| Benzo(a)pyrene | | | Not detected | 660 | Not detected | 330 |
| Benzo(b)fluoranthene | | | Not detected | 660 | Not detected | 330 |
| Benzo(g,h,i)perylene | | | Not detected | 660 | Not detected | 330 |
| Benzo(k)fluoranthene | | | 800 | 660 | Not detected | 330 |
| Benzyl alcohol | | | Not detected | 660 | Not detected | 330 |
| Bis(2-chloroethoxy)methane | | | Not detected | 660 | Not detected | 330 |
| Bis(2-chloroethyl)ether | | | Not detected | 660 | Not detected | 330 |
| Bis(2-chloroisopropyl)ether | | | Not detected | 660 | Not detected | 330 |
| Bis(2-ethylhexyl)phthalate | | | Not detected | 660 | Not detected | 330 |
| Butyl benzyl phthalate | | | Not detected | 660 | Not detected | 330 |
| Chrysene | | | 730 | 660 | Not detected | 330 |
| Dibenz(a,h)anthracene | | | Not detected | 660 | Not detected | 330 |
| Dibenzofuran | | | Not detected | 660 | Not detected | 330 |
| Diethylphthalate | | | Not detected | 660 | Not detected | 330 |
| Dimethylphthalate | | | Not detected | 660 | Not detected | 330 |
| Di-n-butylphthalate | | | Not detected | 660 | Not detected | 330 |
| Di-n-octylphthalate | | | Not detected | 660 | Not detected | 330 |
| Fluoranthene | | | 1400 | 660 | Not detected | 330 |
| Fluorene | | | Not detected | 660 | Not detected | 330 |
| Hexachlorobenzene | | | Not detected | 660 | Not detected | 330 |
| Hexachlorobutadiene | | | Not detected | 660 | Not detected | 330 |
| Hexachlorocyclopentadiene | | | Not detected | 660 | Not detected | 330 |
| Hexachloroethane | | | Not detected | 660 | Not detected | 330 |
| Indeno(1,2,3-cd)pyrene | | | Not detected | 660 | Not detected | 330 |
| Isophorone | | | Not detected | 660 | Not detected | 330 |
| Naphthalene | | | Not detected | 660 | Not detected | 330 |
| Nitrobenzene | | | Not detected | 660 | Not detected | 330 |
| N-Nitrosodi-n-propylamine | | | Not detected | 660 | Not detected | 330 |
| N-Nitrosodiphenylamine | | | Not detected | 660 | Not detected | 330 |
| Pentachlorophenol | | | Not detected | 3400 | Not detected | 1700 |
| Phenanthrene | | | 850 | 660 | Not detected | 330 |
| Phenol | | | Not detected | 660 | Not detected | 330 |
| Pyrene | | | 1100 | 660 | Not detected | 330 |

YORK

| Client Sample ID | | | SS-3 | | SS-4 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 01080459-05 | | 01080459-06 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | 0.04 | 0.02 | Not detected | 0.02 |
| PCB 1221 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1232 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1242 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1248 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1254 | | | 0.14 | 0.02 | 0.03 | 0.02 |
| PCB 1260 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB, Total | | | 0.18 | 0.02 | 0.03 | 0.02 |
| Total RCRA Metals | SW846 | mg/kG | --- | --- | --- | --- |
| Arsenic, total | | | 11.5 | 1.00 | 5.34 | 1.00 |
| Barium, total | | | 60.8 | 0.50 | 58.4 | 0.50 |
| Cadmium, total | | | 0.90 | 0.50 | Not detected | 0.50 |
| Chromium, total | | | 11.5 | 0.50 | 14.2 | 0.50 |
| Lead, total | | | 395 | 0.50 | 140 | 0.50 |
| Selenium, total | | | 1.33 | 1.00 | Not detected | 1.00 |
| Silver, total | | | Not detected | 0.50 | Not detected | 0.50 |
| Mercury | SW846-7471 | mg/kG | 0.34 | 0.25 | Not detected | 0.25 |

| Client Sample ID | | | SS-5 | | SS-6 | |
|---|---|---|---|---|---|---|
| York Sample ID | | | 01080459-07 | | 01080459-08 | |
| Matrix | | | SOIL | | SOIL | |
| Parameter | Method | Units | Results | MDL | Results | MDL |
| PCB | SW846-3550B/8082 | mg/Kg | --- | --- | --- | --- |
| PCB 1016 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1221 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1232 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1242 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1248 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB 1254 | | | Not detected | 0.02 | 0.06 | 0.02 |
| PCB 1260 | | | Not detected | 0.02 | Not detected | 0.02 |
| PCB, Total | | | Not detected | 0.02 | 0.06 | 0.02 |
| Total RCRA Metals | SW846 | mg/kG | --- | --- | --- | --- |
| Arsenic, total | | | 7.50 | 1.00 | 11.0 | 1.00 |
| Barium, total | | | 128 | 0.50 | 231 | 0.50 |
| Cadmium, total | | | Not detected | 0.50 | 3.37 | 0.50 |
| Chromium, total | | | 17.3 | 0.50 | 11.6 | 0.50 |
| Lead, total | | | 319 | 0.50 | 470 | 0.50 |
| Selenium, total | | | Not detected | 1.00 | Not detected | 1.00 |
| Silver, total | | | Not detected | 0.50 | Not detected | 0.50 |
| Mercury | SW846-7471 | mg/kG | 0.42 | 0.25 | 0.92 | 0.25 |

YORK

| Client Sample ID | | | RD-7 | |
|---|---|---|---|---|
| York Sample ID | | | 01080459-09 | |
| Matrix | | | WATER | |
| Parameter | Method | Units | Results | MDL |
| Total RCRA Metals | SW846 | mg/L | --- | --- |
| Arsenic, total | | | Not detected | 0.010 |
| Barium, total | | | 0.075 | 0.005 |
| Cadmium, total | | | Not detected | 0.005 |
| Chromium, total | | | Not detected | 0.005 |
| Lead, total | | | Not detected | 0.005 |
| Selenium, total | | | Not detected | 0.010 |
| Silver, total | | | Not detected | 0.005 |
| Mercury | SW-7470 | mg/L | Not detected | 0.0002 |

**Units Key:** For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

## Notes for York Project No. 01080459

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

**Approved By:** Robert Q. Bradley
Managing Director

**Date:** 8/29/2001

YORK

**YORK**
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

# Field Chain-of-Custody Record

| Company Name | Report To: | Invoice To: | Project ID/No. | Samples Collected By (Signature) |
|---|---|---|---|---|
| Ecosystems Strategies, Inc. | Jonathan Kaplan | Pam Q | SB2096.40 | Jonathan Teubl, JK, KW (Name Printed) |

| Sample No. | Location/ID | Date Sampled | Sample Matrix: Water | Soil | Air | OTHER | ANALYSES REQUESTED | Container Description |
|---|---|---|---|---|---|---|---|---|
| | CS-1 | 8-17-01 | | X | | | RCRA metals (Method 6010) | 1 4oz |
| | | | | | | | pesticides (Method 8082) | |
| | | | | | | | PCBs (Method 8081), VOCs (Methods 8260), sVOCs (both base neutral and acid extractable as per Method 8270) | |
| | | | | | | | dioxins, furans (Method 8270) and total organic carbon, | |
| | CS-2 | " | | X | | | Same as CS-1 | 1 8oz jar |
| | | | | | | | | |
| | | | | | | | | |

**Chain-of-Custody Record**

| | Date/Time | | Date/Time | | Date/Time |
|---|---|---|---|---|---|
| Bottles Relinquished from Lab by | | Sample Relinquished by | 8-20-01 13:20 | Sample Received by | 8/20/01 13:20 |
| Bottles Received in Field by | | Sample Relinquished by | | Sample Received in LAB by | 8-20-01 17:18 |

*Comments/Special Instructions*

**Turn-Around Time**
___Standard ___RUSH(define)_____

10/04/2001 13:20 4857083 PAGE 18

**YORK**
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

# Field Chain-of-Custody Record



10/04/2001 13:20 4857083

| Company Name | Report To: | Invoice To: | Project ID/No. | |
|---|---|---|---|---|
| Ecosystems Strategies, Inc | Jonathan Kaplan | Pam Q | SB2096.40 | Samples Collected By (Signature): Jonathan Teubl<br>Name (Printed): Jonathan Teubl, JK, KW |

| Sample No. | Location/ID | Date Sampled | Sample Matrix: Water | Soil | Air | OTHER | ANALYSES REQUESTED | Container Description(s) |
|---|---|---|---|---|---|---|---|---|
| | SS-1 0"-4" | 8-17-01 | | X | | | RCRA metals (total wt.) and | 1 8oz jar |
| | | | | | | | PCBs (EPA method 8082) | |
| | SS-2 0"-4" | | | | | | " | |
| | SS-3 0"-4" | | | | | | RCRA metals (total wt), PCBs | |
| | | | | | | | (Method 8082), VOCs (Method 8260) and SVOCs (Method 8270) | |
| | SS-4 0"-4" | | | | | | " | |
| | SS-5 0"-4" | | | | | | RCRA metals (total wt.) and | |
| | | | | | | | PCBs (EPA method 8082) | |
| | SS-6 0"-4" | | | X | | | " | X |
| | RD-7 | X | X | | | | RCRA metals (EPA Method 6010) | 2 32oz jars |

**Chain-of-Custody Record**

| | | | |
|---|---|---|---|
| Bottles Relinquished from Lab by | Date/Time | Sample Relinquished by: J. Taylor | Date/Time: 8/20/01 3:20 pm |
| Bottles Received in Field by | Date/Time | Sample Relinquished by | Date/Time |
| Sample Received by: R. Van Deusen | Date/Time: 8/20/01 3:20 | | |
| Sample Received in LAB by: J. Taylor | Date/Time: 8-20-01 17 | | |

*Comments/Special Instructions*

**Turn-Around Time**
____Standard ____RUSH(define)_____