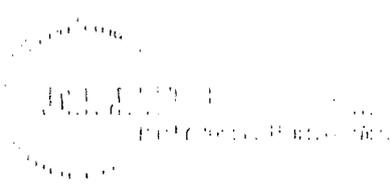


~~Report 2011~~

Report. 356045. 2011.

03-31.

Nov 2010 Wetland Summ.



MAR 31 2011  
New York State Department of Environmental Conservation  
Division of Environmental Remediation

March 21, 2011

Mr. Chris DeRoberts  
Central Hudson Gas & Electric  
284 South Avenue  
Poughkeepsie, NY 12233-7258

**Re: November 2010 Wetland Investigation Summary Report**  
Eltings Corners RCRA Facility Investigation  
Central Hudson Gas & Electric  
South Street, Town of Lloyd, Ulster County, New York  
Project # 99768

Dear Mr. DeRoberts:

On behalf of Central Hudson Gas & Electric (CHGE), Kleinfelder East, Inc. (Kleinfelder) has conducted a continuing investigation of the wetland located to the west of CHGE's Eltings Corners facility (**Figure 1**) in accordance with the Supplemental RCRA Facility Investigation (RFI) Workplan Addendum (April 2010) and the Decision Matrix for Laboratory Analysis of Sediment Samples (April 2010) for additional wetland sediment sampling. The Workplan Addendum and the Decision Matrix were approved by the New York State Department of Environmental Conservation (NYSDEC) on May 11, 2010.

**BACKGROUND AND PROJECT UNDERSTANDING**

As described in Kleinfelder's April 2009 RFI Report, sediment samples were collected from the streambed at the stormwater outfall location and several distances downstream from the outfall. At each sampling location, samples were collected from discrete depth intervals. Analytical results indicated that concentrations of PCBs exceeded the Site Specific Sediment Screening Criteria (SSSSC) for the Wildlife Bioaccumulation (most protective) Protection Level. The SSSSC for PCBs were calculated following the NYSDEC Technical Guidance for Screening Contaminated Sediments using total organic carbon (TOC) concentrations. Additionally, total polyaromatic hydrocarbon (PAH) compound concentrations were also found to be in exceedance of the NYSDEC's proposed cleanup criterion level of 10,000 ug/kg of Total PAH.

Kleinfelder conducted an Interim Supplemental RFI Investigation in December 2009 where additional wetland samples were collected to delineate the horizontal and vertical extent of PCB and PAH exceedances. Results indicated that the horizontal and vertical limits of PCB and PAH exceedances had not yet been determined, and additional sampling was recommended. Further horizontal delineation required collecting samples from offsite locations, where CHGE needed to obtain permission for site access.

## **METHODOLOGY**

Once permission for access to adjacent parcels was obtained by CHGE, wetland sediment sampling was conducted on October 29 through November 3, 2010. As before, sampling locations were established on a grid system in the wetland by manually measuring the distance along the center channel from the outfall at South Street and staking channel points using a 100-foot tape measure. Sample locations to the north and south of the channel point on each transect were manually measured from the channel point using the tape measure. All sample locations are marked with an 8-foot PVC pipe labeled with the sampling location number (e.g., SP-33). The sampling locations were also located with a Global Positioning System (GPS) device for the creation of sampling location maps. The gridded sampling locations are shown in **Figure 2**. Please note that locations sampled during the November 2010 sampling event are shown as proposed locations on Figure 2. Additionally, except for the fire pond location, other upgradient locations were not sampled due to lack of permission for access.

*Recommend no further upgradient*

During this supplemental wetland investigation, new transects were established at 800 feet from the outfall location, as well as along the south side and north side of the Route 299 culvert. At each new transect, three sampling locations were established along the transect: center channel, 25 feet north/east of center channel, and 25 feet south/west of center channel. At each sampling location, samples were collected at discrete intervals to a depth of 3 feet. Depth intervals sampled included: 0-0.5 foot; 1.0-1.5 feet, 1.5-2.0 feet, 2.0-2.5 feet, and 2.5-3.0 feet.

New sampling locations were also established along existing transects to further the horizontal delineation of PCB and/or PAH exceedances. New sampling locations included SP-30 through SP-33 along the southern ends of the 200-foot, 300-foot, 400-foot, and 500-foot transects, respectively. These sampling locations are shown on **Figure 3**.

Additionally, deeper sediment samples were collected from center channel locations along the 25-foot, 100-foot, 300-foot, and 500-foot transects. Deeper sediment samples were collected from 2.0-2.5-foot and 2.5-3.0-foot depth intervals to enhance vertical delineation of PCB and/or PAH exceedances.

An upgradient location (SP-43) was also established in the onsite fire pond (**Figure 3a**). SP-43 was located as close as possible to the center channel of the inlet into the pond. Due to pond depth, SP-43 was located approximately 5 feet south of the center channel

of the inlet into the pond. As with other sampling locations, upgradient sediment samples were collected at discrete intervals to a depth of 3 feet.

Although previous wetland investigations had used a hand auger to collect sediment samples from various sampling locations/intervals, the November 2010 wetland investigation used a hand-driven Geoprobe® soil sampler with disposable liner. This sampling device allowed greater precision over sampling intervals. The sampler collects discrete 2-foot sections of sediment. Upon sample retrieval, the liner was opened and samples were collected from each discrete 6-inch sampling interval. Due to the small diameter of the liner (1.25 inches), in some instances, several samples needed to be collected from the sampling location for sufficient soil sample quantity. In these cases, soil samples were retrieved from adjacent soil boreholes and combined.

Sediment samples were collected in accordance with the April 2010 Decision Matrix. Each sample was placed in a laboratory-supplied 8-oz. glass bottle and shipped on ice to TestAmerica in Shelton, Connecticut, a New York State certified laboratory (NYSDOH ELAP Certification #0602). The sampling device was decontaminated between every advancement into the ground with an initial distilled water rinse, followed by analconox wash and a final distilled water rinse. The sampling device was decontaminated with a methanol rinse followed by a distilled water rinse at the end of each day.

Sample analysis was also conducted in accordance with the April 2010 Decision Matrix. In general, the Decision Matrix required the analysis of samples from the three shallowest intervals first. Deeper samples were extracted and archived for potential analysis once the initial results were received and evaluated. All samples to be archived were extracted upon arrival at the laboratory for later potential PCB and PAH analysis. Initially, 45 samples were analyzed upon receipt at the laboratory. Based on the results of this initial run, Kleinfelder analyzed 5 archived samples for PCBs. The NYSDEC requested analysis of an additional 4 archived samples for PAHs. Please note that TOC analysis for the 5 additional PCB samples occurred past laboratory hold time. However, the net effect of exceeded hold times on TOC would result in false positives as TOC concentrations decrease over time, which would decrease the SSSSC. Kleinfelder also performed a sensitivity analysis on TOC concentrations versus the effect of SSSSC and determined that TOC concentrations needed to triple (at a minimum) in concentration to raise the SSSSC to a level where the corresponding PCB concentration was no longer an exceedance. Therefore, it was deemed that the determination of exceedances from these 5 samples was representative of actual conditions.

## **RESULTS AND FINDINGS**

Individual PCB concentrations were totaled for each sample. Using the NYSDEC Technical Guidance for Screening Contaminated Sediments, TOC concentrations from each sample were used to calculate the sample-specific PCB SSSSC for Wildlife Bioaccumulation. Total PCB concentrations from the sample were compared to the sample-specific SSSSC for PCBs to determine impacts.

Individual PAH concentrations were also totaled for each sample. Total PAH concentrations were then compared to the proposed NYSDEC cleanup criterion of 10,000 ug/kg.

**Table 1** summarizes Total PCB and Total PAH data in a manner which mimics the aerial layout of the sampling locations within the wetland. **Figures 3 and 3a** show the aerial extent of PCB concentrations with respect to the SSSSC. **Figures 4 and 4a** show the aerial extent of Total PAH concentrations with respect to the proposed 10,000 ug/kg cleanup criterion. Laboratory data packages are included on an electronic disk in **Appendix A**.

Analytical results for PCBs indicate that the horizontal extent along the center channel has been grossly defined (**Figure 3**). No PCBs were detected in any of the nine samples from the North Side of Route 299 transect indicating that PCB impacts have not crossed Route 299. PCB impacts were also limited on the South Side of Route 299 transect to the two shallowest sampling intervals at SP-39 (easternmost location on this transect); and at the 800-foot transect, PCBs were only found in the shallowest sampling interval (0-0.5 feet) at the three sampling locations (SP-34 through SP-36).

PCB analytical results from new sampling locations along the south side of existing transects have helped to further the delineation of the horizontal extent of PCB contamination. On the 200-foot transect, SP-30 reported no detections of PCBs in both shallowest intervals (0-0.5 feet and 1-1.5 feet). Therefore, the horizontal extent has been defined at this transect. PCB impacts above the SSSSC are limited to the shallowest sampling interval at SP-32 and SP-33 on the 400-foot and 500-foot transect, respectively. However, the 300-foot transect had PCB impacts to a depth of 2.5 feet at SP-31.

Center channel samples from the 2.0-2.5 foot and 2.5-3.0-foot intervals indicate that vertical delineation has been established at the 25-foot transect (SP-2) and the 500-foot transect (SP-28). PCB impacts above the SSSSC were noted to depths of 3 feet at the center channel location of the 300-foot transect and the 100-foot transect. Therefore, additional vertical delineation will be needed at these two transects.

Analytical results for Total PAH concentrations in sediment samples collected during the November 2010 sampling event showed that all Total PAH concentrations were below 4,000 ug/kg with many samples reporting no detections of PAHs (**Figure 4**). Therefore, the horizontal and vertical extent of PAH impacts have been grossly defined. The horizontal limit of PAH impacts lies between the 500-foot and 800-foot transect; the vertical limit appears to be at a depth of approximately 2 feet.

In comparing **Figures 3 and 4**, it should be noted that PCB exceedances are more widespread horizontally and vertically than Total PAH impacts. Additionally, all locations with Total PAH impacts also have PCB exceedances.

Based on the analytical results, no PCBs or PAHs were detected in the upgradient fire pond location (SP-43) (Figures 3a and 4a). No other upgradient/background locations were sampled during the November 2010 event due to lack of permission for access.

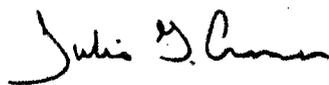
## RECOMMENDATIONS

Although the November 2010 sediment sampling investigation has furthered the delineation of PCB and PAH contamination in the wetland, vertical and horizontal delineation has not yet been completed for PCBs. Based on the current data, additional sampling to the west and southwest to delineate the western and southwestern edge of contaminant migration will be required. Additionally, further vertical delineation needs to be conducted along the center channel at the 100-foot and 300-foot intervals to determine the vertical limit of exceedances of PCBs and PAHs. However, since PCB exceedances duplicate and extend beyond PAH exceedances both vertically and horizontally, Kleinfelder recommends that PAHs be eliminated from the laboratory analysis. PCBs have a wider distribution in the wetland and will likely be the contaminant of concern for any proposed remedial activity.

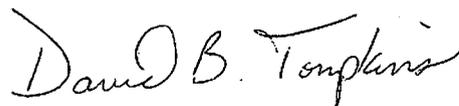
To further advance the delineation of contamination, Kleinfelder recommends establishing two new transects at the 600-foot and 700-foot distance from the outfall. **Figure 5** illustrates proposed sampling locations. These transects will be established with five sampling locations each (center channel, 25 and 50 feet north of center channel, and 25 and 50 feet south of center channel). At each sampling location on these transects, sediment from five depth intervals will be collected (to a depth of 3 feet). Additionally, new sampling locations will be established further south along the 300-foot, 400-foot, and 500-foot transects to enable vertical and horizontal delineation in this area. New sampling locations will also be established further from the center channel in both directions along the 800-foot transect and further north/east from the center channel at the South of Route 299 transect. Deeper sediment samples will also be collected from center channel locations at the 100-foot, 300-foot, and 500-foot transects where vertical delineation is still needed. Kleinfelder recommends collecting four additional 6-inch intervals to a depth of 5 feet at center channel locations. No further upgradient sampling is being proposed since both PCB and PAH samples at the fire pond were non-detect. Sediment samples will be collected and archived/analyzed in accordance with the April 2010 Decision Matrix.

Please feel free to contact us at (845) 567-6530 with any questions.

Sincerely,  
Kleinfelder East, Inc.



Julia G. Craner  
Hydrogeologist/Environmental Scientist



David B. Tompkins, PWS, CWB  
Vice President  
Environmental Permitting & Planning

NO  
START  
on 11/5

where?

21, 24, 25

27

10, 11, 12

1, 3, 4, 5

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## **List of Appendices**

Appendix A – Disk with Laboratory Analytical Packages

**Tables**

**Tables**

**Table 1**  
**Summary of Total PCB and Total PAH Concentrations**  
**by Sampling Location Depth**  
**November 2010 Wetland Investigation**  
**CHGE Eltings Comers Facility**  
**Town of Lloyd, NY**

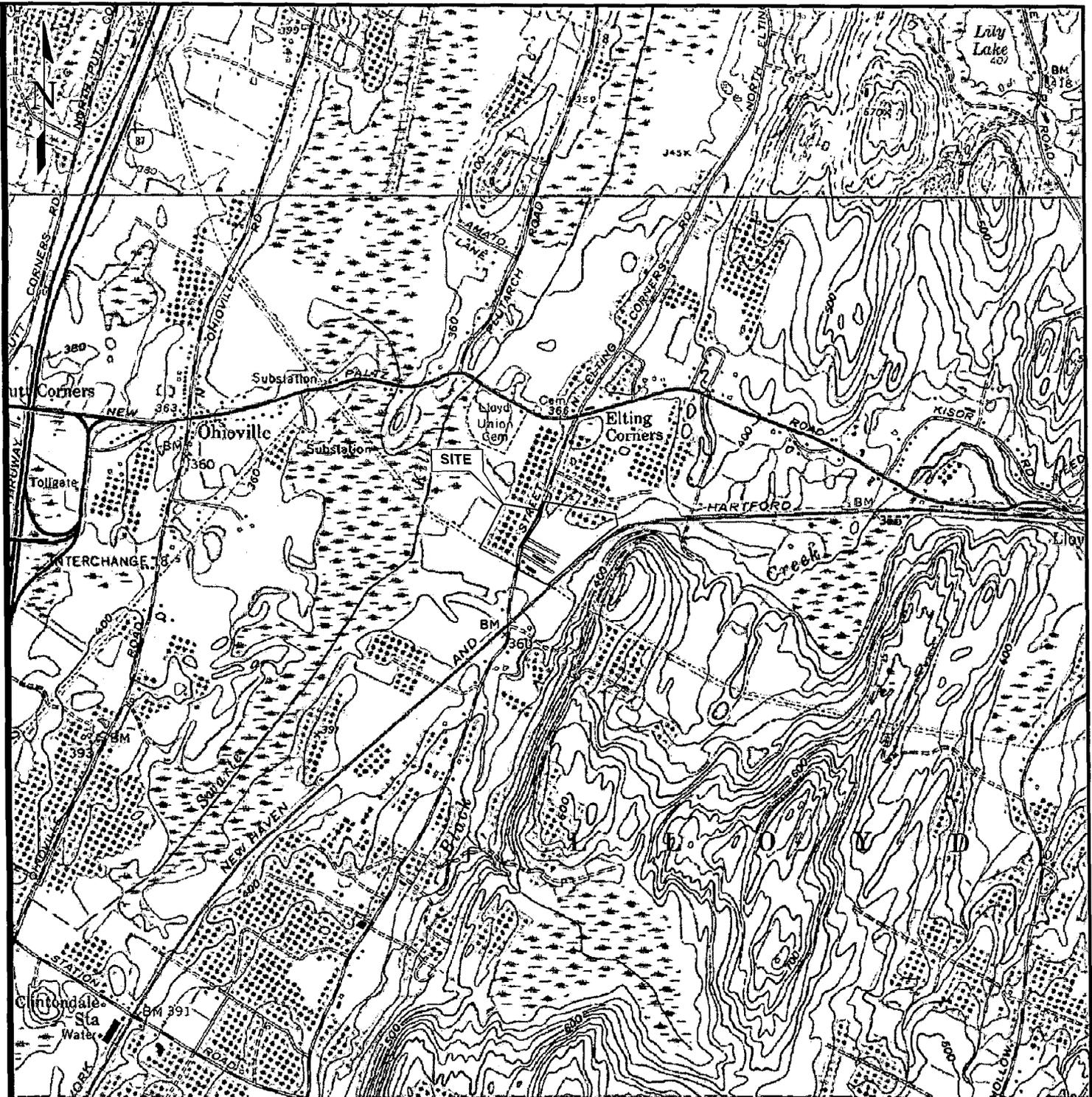
Distance from Outfall	Sample Location	70' South of stream channel		50' South of stream channel		25' South of stream channel		Centerline of Stream Channel		25' North of stream channel				
		Total PCBs (ppb)	Total PAH's (ug/kg)	Sample Location	Total PCBs (ppb)	Total PAH's (ug/kg)	Sample Location	Total PCBs (ppb)	Total PAH's (ug/kg)	Sample Location	Total PCBs (ppb)	Total PAH's (ug/kg)		
N. of 289						SP40 0-0.5	ND	na	SP41 0-0.5	ND	ND	SP42 0-0.5	ND	na
						SP40 1-1.5	ND	na	SP41 1-1.5	ND	ND	SP42 1-1.5	ND	na
						SP40 1.5-2	ND	na	SP41 1.5-2	ND	na	SP42 1.5-2	ND	na
						SP40 2-2.5	na	na	SP41 2-2.5	na	na	SP42 2-2.5	na	na
S. of 289						SP40 2.5-3	na	na	SP41 2.5-3	na	na	SP42 2.5-3	na	na
						SP37 0-0.5	ND	na	SP38 0-0.5	ND	ND	SP39 0-0.5	2900	2184
						SP37 1-1.5	ND	na	SP38 1-1.5	ND	ND	SP39 1-1.5	27J	ND
						SP37 1.5-2	ND	na	SP38 1.5-2	ND	na	SP39 1.5-2	ND	na
800'						SP37 2-2.5	na	na	SP38 2-2.5	na	na	SP39 2-2.5	na	na
						SP37 2.5-3	na	na	SP38 2.5-3	na	na	SP39 2.5-3	na	na
						SP34 0-0.5	400	941	SP35 0-0.5	110	83	SP36 0-0.5	69J	ND
						SP34 1-1.5	ND	na	SP35 1-1.5	ND	na	SP36 1-1.5	ND	na
500'						SP34 1.5-2	ND	ND	SP35 1.5-2	ND	ND	SP36 1.5-2	ND	ND
						SP34 2-2.5	na	na	SP35 2-2.5	na	na	SP36 2-2.5	na	na
						SP34 2.5-3	na	na	SP35 2.5-3	na	na	SP36 2.5-3	na	na
						SP33 0-0.5	130	92	27A 0-6"	1,600	9,574	28A 0-6"	570	17,298
400'						SP33 1-1.5	ND	ND	27B 12-18"	110	12,135	28B 12-18"	3,000	25,916
						SP33 1.5-2	ND	ND	27C 18-24"	19J	780	28C 18-24"	5,300	21,865
						SP33 2-2.5	na	na				SP28 2-2.5	ND	ND
						SP33 2.5-3	na	na				SP28 2.5-3	na	na
300'						SP32 0-0.5	290	980	24A 0-6"	1,100	9,939	25A 0-6"	3,900	22,700
						SP32 1-1.5	ND	ND	24B 12-18"	65	266	25B 12-18"	2,800	27,317
						SP32 1.5-2	ND	ND	24C 18-24"	42	401	25C 18-24"	380	8,584
						SP32 2-2.5	na	na				26A 0-6"	15J	ND
200'						SP32 2.5-3	na	na				26B 12-18"	ND	ND
						SP31 0-0.5	590	511	21A 0-6"	590	1,438	22A 0-6"	1,500	10,381
						SP31 1-1.5	430	na	21B 12-18"	33	ND	22B 12-18"	1,800	22,450
						SP31 1.5-2	21J	ND	21C 18-24"	25	ND	22C 18-24"	4,000	19,991
100'						SP31 2-2.5	28J	na				SP22 2-2.5	610	110
						SP31 2.5-3	28J	na				SP22 2.5-3	16J	na
50'														
25'														

J - Estimated Value  
 ND - non-detect  
 na - not analyzed

Total PAH concentration is between 4,000 and 10,000 ug/kg. Location may require remediation.  
 For PCBs the concentration exceeded the Sediment Screening Criteria which is a function of the location specific Total Organic Carbon concentration.  
 For PAHs, concentration exceeded 10,000 ug/kg.

Upgradient Fire pond

**Figures**



**SOURCE:**

- USGS 7.5' TOPOGRAPHIC MAP, CLINTONDALE QUADRANGLE (1957)

2000 1000 0 2000

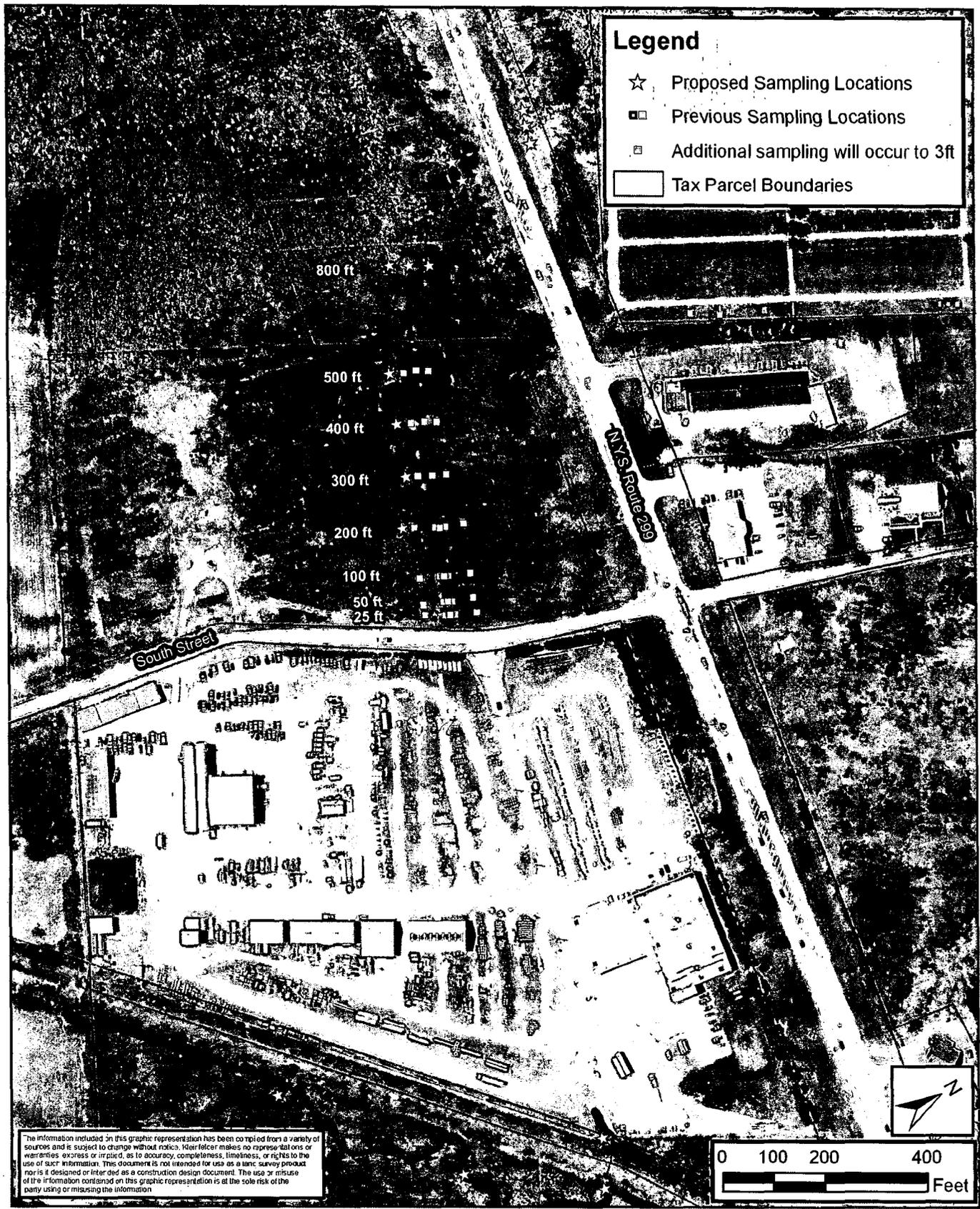
APPROXIMATE SCALE (feet)

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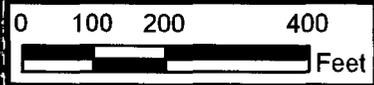
	PROJECT NO. 99768	<b>SITE LOCATION MAP</b>	<b>FIGURE</b>  <b>1</b>
	DRAWN: 03/12/2010		
	DRAWN BY: CTH	CHG&E ELTINGS CORNERS PROPERTY 24 SOUTH STREET TOWN OF LLOYD, ULSTER COUNTY, NEW YORK	
	CHECKED BY:		
FILE NAME: 99768LLOYD.dwg			

**Legend**

- ☆ Proposed Sampling Locations
- Previous Sampling Locations
- ▣ Additional sampling will occur to 3ft
- ▭ Tax Parcel Boundaries



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CHECKED BY:	JC
FILE NAME:	ECProposedLocations.mxd

**RFI Supplemental Workplan Addendum**  
**Property boundaries and proposed sample locations**  
 Source: NYS GIS Clearinghouse 2034 ORTHOPHOTO  
 C.H.G.E. CORP  
 ELTINGS CORNERS PROPERTY  
 SOUTH STREET  
 TOWN OF LLOYD, ULSTER COUNTY, NEW YORK

FIGURE  
**2**

# Legend

- 0 - 6 in. depth
- 12 - 18 in. depth
- 18 - 24 in. depth
- 24 - 30 in. depth
- 30 - 36 in. depth

No Sample Analyzed

PCBs exceed SSSSC

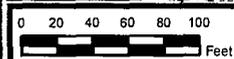
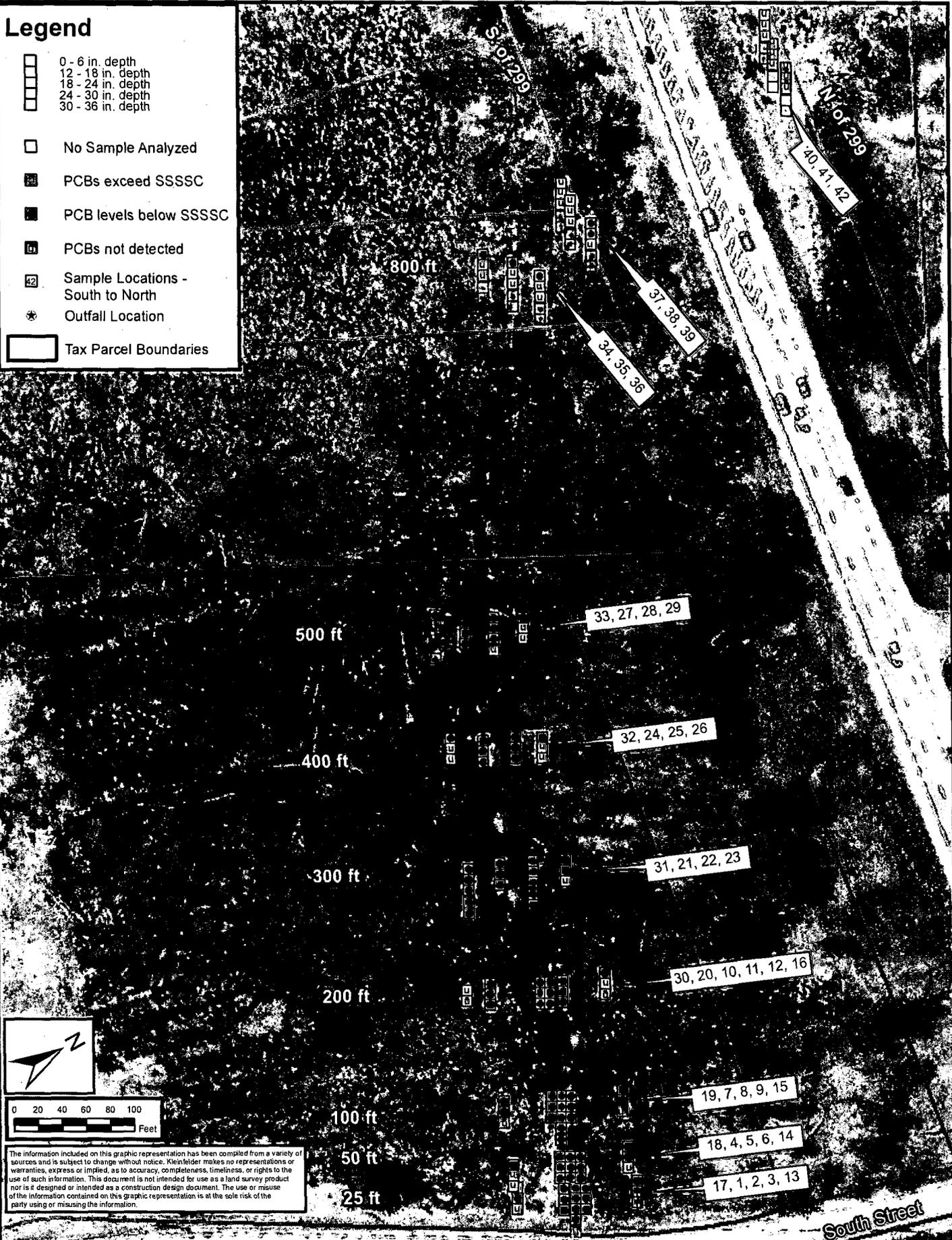
PCB levels below SSSSC

PCBs not detected

Sample Locations - South to North

Outfall Location

Tax Parcel Boundaries



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FILE NAME:	ECSamplePCB.mxd

**PCB Results Based on SSSSC for Wildlife Bioaccumulation**  
 Source: NYS GIS Clearinghouse 2004 ORTHOPHOTO

C.H.G.E. CORP  
 ELTINGS CORNERS PROPERTY  
 SOUTH STREET  
 TOWN OF LLOYD, ULSTER COUNTY, NEW YORK

FIGURE  
**3**

Surface water from catch basin - VOC SVOC Prof. PCB  
 TIN min. PCB

# Legend

- 0 - 6 in. depth
- 12 - 18 in. depth
- 18 - 24 in. depth
- 24 - 30 in. depth
- 30 - 36 in. depth
  
- No Sample Analyzed
- PCBs exceed SSSSC
- PCB levels below SSSSC
- PCBs not detected
- Sample Locations - South to North
- Outfall Location
  
- Tax Parcel Boundaries



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**PCB Results Based on SSSSC  
for Wildlife Bioaccumulation**  
Source: NYS GIS Clearinghouse 2004 ORTHOPHOTO

C.H.G.E. CORP  
ELTINGS CORNERS PROPERTY  
SOUTH STREET  
TOWN OF LLOYD, ULSTER COUNTY, NEW YORK

FIGURE  
**3a**

**Legend**

- 0 - 6 in. depth
- 12 - 18 in. depth
- 18 - 24 in. depth
- 24 - 30 in. depth
- 30 - 36 in. depth

- No Sample Analyzed
- > 10,000 µg/kg Total PAHs
- 4,000 - 10,000 µg/kg Total PAHs
- < 4,000 µg/kg Total PAHs
- PAHs Not Detected
- Sample Locations - South to North
- Outfall Location
- Tax Parcel Boundaries



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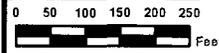
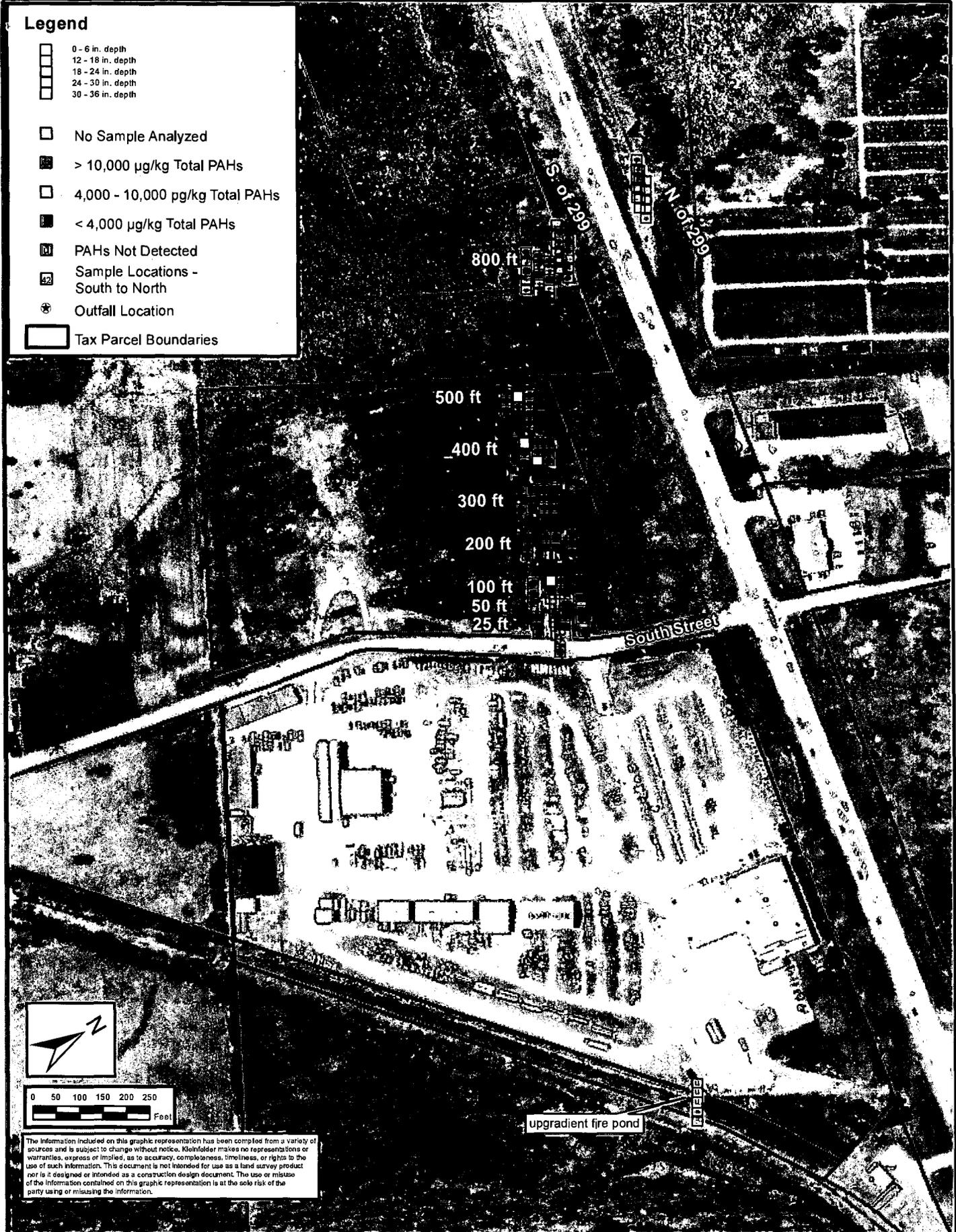
<b>Total PAH Results</b>	
Source: NYS GIS Clearinghouse 2004 ORTHOPHOTO	
C.H.G.E. CORP ELTINGS CORNERS PROPERTY SOUTH STREET TOWN OF LLOYD, ULSTER COUNTY, NEW YORK	

FIGURE	<b>4</b>
--------	----------

**Legend**

- 0 - 6 in. depth
- 12 - 18 in. depth
- 18 - 24 in. depth
- 24 - 30 in. depth
- 30 - 36 in. depth

- No Sample Analyzed
- > 10,000 µg/kg Total PAHs
- 4,000 - 10,000 µg/kg Total PAHs
- < 4,000 µg/kg Total PAHs
- PAHs Not Detected
- Sample Locations - South to North
- Outfall Location
- Tax Parcel Boundaries



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upgradient fire pond

1260 11295

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FILE NAME:	ECSamplePAH.mxd

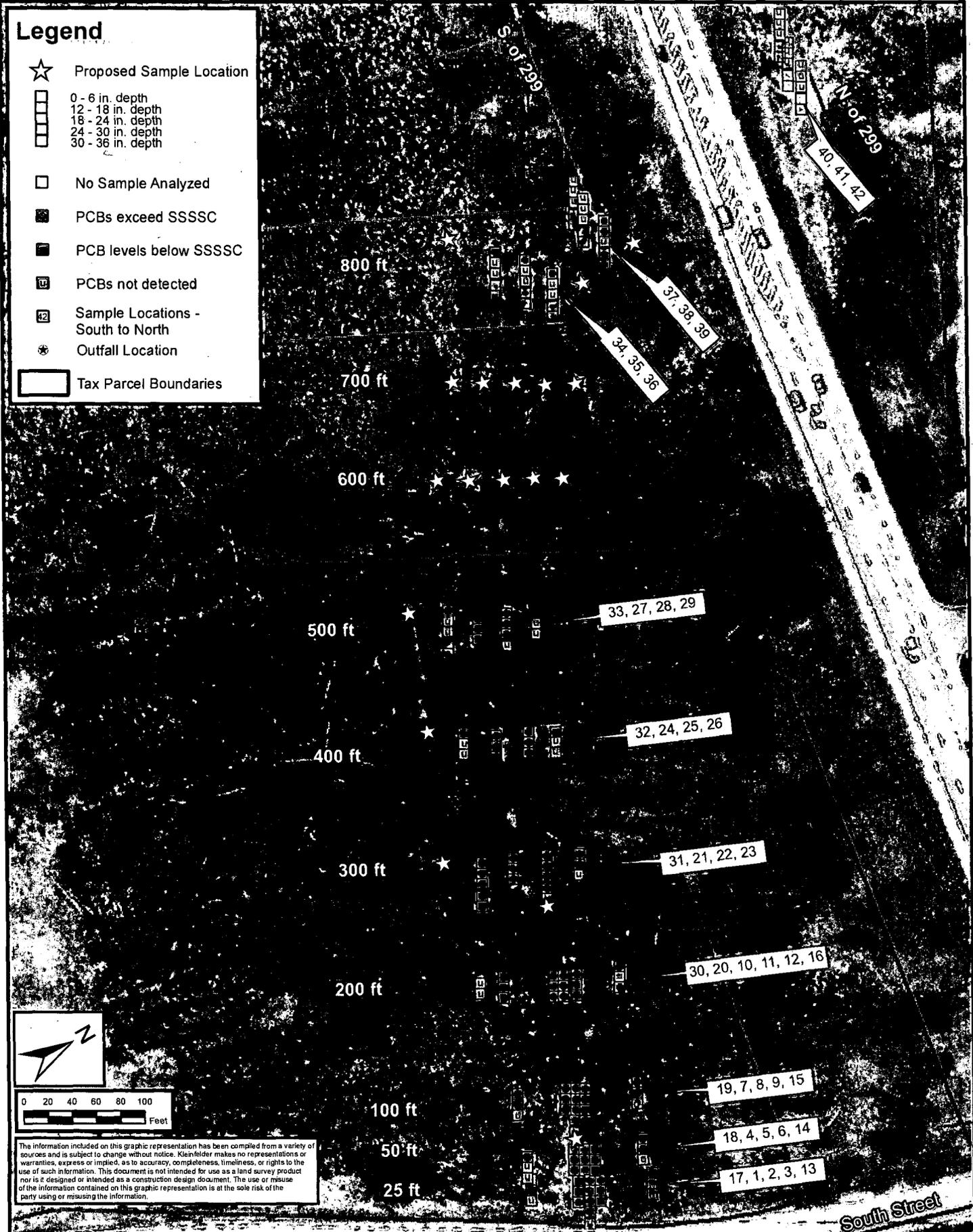
**Total PAH Results**  
 Source: NYS GIS Clearinghouse 2004 ORTHOPHOTO  
 C.H.G.E. CORP  
 ELTINGS CORNERS PROPERTY  
 SOUTH STREET  
 TOWN OF LLOYD, ULSTER COUNTY, NEW YORK

FIGURE  
**4a**

Alachua

# Legend

- ☆ Proposed Sample Location
- 0 - 6 in. depth
  - 12 - 18 in. depth
  - 18 - 24 in. depth
  - 24 - 30 in. depth
  - 30 - 36 in. depth
- No Sample Analyzed
- PCBs exceed SSSSC
- PCB levels below SSSSC
- PCBs not detected
- Sample Locations - South to North
- ⊕ Outfall Location
- Tax Parcel Boundaries



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FILE NAME:	Fig5_PropSamples.mxd

**Proposed Sampling Locations**  
 Source: NYS GIS Clearinghouse 2004 ORTHOPHOTO  
 C.H.G.E. CORP  
 ELTINGS CORNERS PROPERTY  
 SOUTH STREET  
 TOWN OF LLOYD, ULSTER COUNTY, NEW YORK

FIGURE  
**5**

**Appendix A**

**Laboratory Analytical Packages  
(disk)**