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May 19, 2008

130215.003

Mr. James Strickland, P.E.
NYS Department of Environmental Conservation
Division of Solid and Hazardous Materials, Region 9
270 Michigan Avenue
Buffalo NY 14203-2999

Subject: Two Mile Creek
Tonawanda, New York

Dear Mr. Strickland:

On behalf of GE Energy, Brown and Caldwell is pleased to submit the enclosed results for recent sampling in Two Mile Creek, located in Tonawanda, New York.

Please contact Dawn Varacchi-Ives at (978) 353-3738 or me, with any questions.

Sincerely,

BROWN AND CALDWELL

A handwritten signature in black ink, appearing to read "Kendrick Jaglal".

Kendrick Jaglal, P.E.
Project Manager

Encls:

cc: Dawn Varacchi-Ives, GE Energy
Tony Hejmanowski, GE Energy
Andrew Park, USEPA Region II
Robert Phaneuf, NYS DEC

Two Mile Creek – Tonawanda, New York

April 2008 Sampling Event

Analytical Results

In April 2008 sediment removal was performed at two areas in Two Mile Creek, located in Tonawanda, New York. Sediment was removed down to the underlying clay layer from between survey stations 24+00 to 25+00 and 29+25 to 30+70, as shown in the attached figures. These locations were selected for removal by the New York State Department of Environmental Conservation (NYSDEC), Division of Fish, Wildlife and Marine Resources following a review of available data for the Creek. Following completion of sediment removal at the two designated areas, a total of four surficial creek bed samples were collected (see attached figures) at the request of NYSDEC. Two samples, designated TMC-CON 01 and TMC-CON 02, were taken from the 0- to 6-inch creek bed interval at the downstream and upstream ends, respectively, of the dredged area between Stations 29+25 and 30+70. Two additional samples, designated TMC-CON 03 and TMC-CON 04, were taken from the 0- to 6-inch creek bed interval at the downstream and upstream ends, respectively, of the second dredged area between Stations 24+00 and 25+00. The samples were submitted for expedited analysis of polychlorinated biphenyls (PCBs) using U.S. EPA Method SW 846-8082 (U.S. EPA, 1996) and for total organic carbon (TOC) using the Lloyd Kahn (1988) method.

The analytical results reported low concentrations of PCBs in the samples as Aroclors 1248, 1254 and 1260. The laboratory data sheets are attached. The PCB results together with those for the TOC are presented in Table 1, below. The Table also provides the theoretical equilibrium pore water concentration associated with the PCBs based on equilibrium partitioning. The calculation utilized the equation provided in the New York State Technical and Administrative Guidance Memorandum #4046 (O'Toole, 1994) and partition coefficients of 54626, 63914 and 349462 L/kg for Aroclors 1248, 1254 and 1260, respectively (Waid, 1986).

Two Mile Creek – Tonawanda, New York

April 2008 Sampling Event

Analytical Results

(Cont'd)

TABLE 1. Analytical Data for April 2008 Sampling in Two Mile Creek

SAMPLE	PCB AROCLOR (mg/kg)			Total PCBs (mg/kg)	Total Organic Carbon (%)	Pore Water Concentration at Equilibrium (mg/L)
	1248	1254	1260			
TMC-CON 01	0.031	0.055	0.016	0.102	1.65	0.000089
TMC-CON 02	0.140	0.240	0.100	0.480	4.38	0.000151
TMC-CON 03	0.062	0.150	0.026	0.238	1.38	0.000258
TMC-CON 04	1.100	2.100	0.350	3.550	13.6	0.000392



References

O'Toole, M. J. (1994) "Determination of Soil Cleanup Objectives and Cleanup Levels." Technical and Administrative Guidance Memorandum #4046. New York State Department of Environmental Conservation.

Kahn, Lloyd. (1988) "Determination of Total Organic Carbon in Sediment (Lloyd Kahn Method)." United States Environmental Protection Agency (U.S. EPA), Region II, Edison New Jersey.

U.S. EPA. (1996) Office of Solid Waste and Emergency Response. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods." SW-846 3rd ed. Washington, D.C.

Waid, J. (1986) *PCBs and the Environment*. Boca Raton, FL: CRC Press. Page 104.

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job#: A08-4331, A08-4332

Project#: NY8A9769

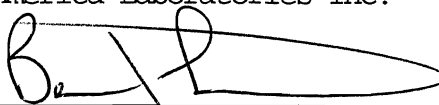
SDG#: 4331

Site Name: Brown and Caldwell

Task: Golf Course Soils

Mr. Kendrick Jaglal
Brown and Caldwell
5710 Commons Park Dr.
East Syracuse, NY 13057

TestAmerica Laboratories Inc.



Brian J. Fischer
Project Manager

04/30/2008

Date: 04/30/2008
Time: 11:15:49

Brown and Caldwell
Golf Course Soils
METHOD 8082 - POLYCHLORINATED BIPHENYLS

Rept: AN0326

Client ID		TMC-CON01		TMC-CON02		TMC-CON03		TMC-CON04	
Job No		A08-4331		A08-4331		A08-4331		A08-4331	
Sample Date		04/22/2008		04/22/2008		04/22/2008		04/22/2008	
Lab ID		A8433101		A8433102		A8433104		A8433103	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	26	ND	37	ND	22	ND	220
Aroclor 1221	UG/KG	ND	26	ND	37	ND	22	ND	220
Aroclor 1232	UG/KG	ND	26	ND	37	ND	22	ND	220
Aroclor 1242	UG/KG	ND	26	ND	37	ND	22	ND	220
Aroclor 1248	UG/KG	31	26	140	37	62	22	1100	220
Aroclor 1254	UG/KG	55	26	240	37	150	22	2100	220
Aroclor 1260	UG/KG	16 J	26	100	37	26	22	350	220
Aroclor 1262	UG/KG	ND	26	ND	37	ND	22	ND	220
Aroclor 1268	UG/KG	ND	26	ND	37	ND	22	ND	220
SURROGATE(S)									
Tetrachloro-m-xylene	%	60	35-134	58	35-134	74	35-134	68	35-134
Decachlorobiphenyl	%	59	34-148	76	34-148	74	34-148	85	34-148

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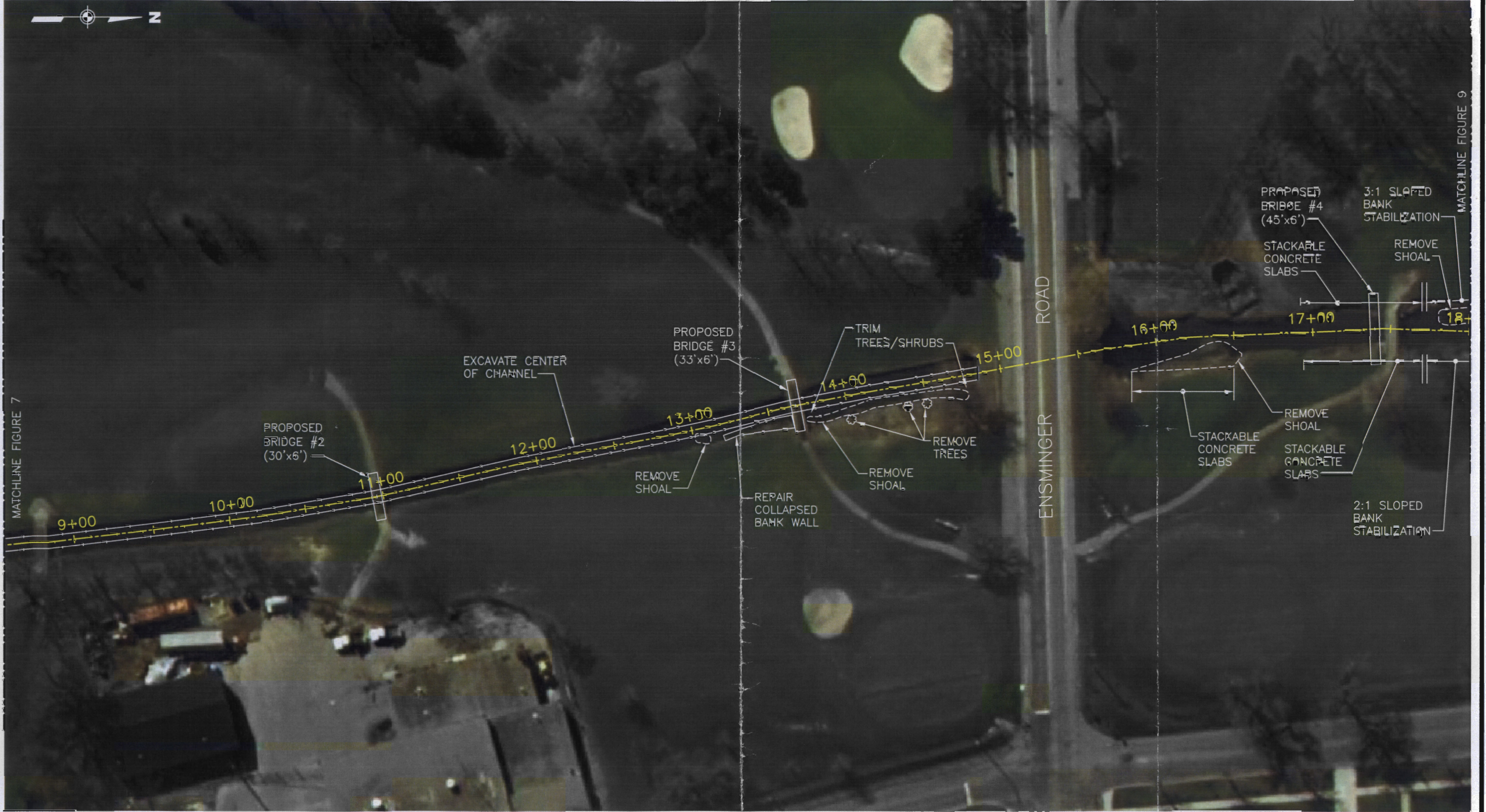
Date: 04/30/2008
 Time: 11:15:53

Brown and Caldwell
 Golf Course Soils
 WET CHEMISTRY ANALYSIS

Rept: AN0326

Client ID		TMC-CON01		TMC-CON02		TMC-CON03		TMC-CON04	
Job No	Lab ID	A08-4332	A8433201	A08-4332	A8433202	A08-4332	A8433204	A08-4332	A8433203
Sample Date		04/22/2008		04/22/2008		04/22/2008		04/22/2008	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Total Organic Carbon	MG/KG	16500	755	43800	1060	13800	669	136000	923

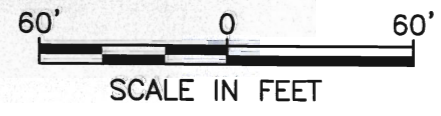
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MATCHLINE FIGURE 7

MATCHLINE FIGURE 9

ENSMINGER ROAD



TWO MILE CREEK - TONAWANDA, N.Y.
 PROPOSED IMPROVEMENTS (2 OF 4)

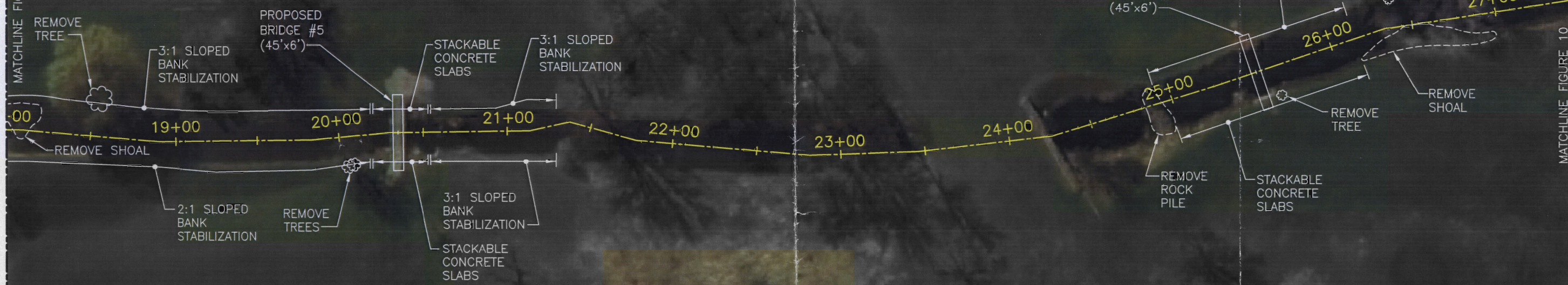
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FIGURE 2

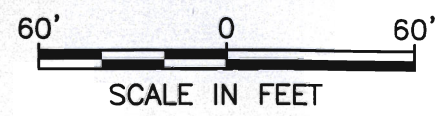
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MATCHLINE FIGURE 8



MATCHLINE FIGURE 10



TWO MILE CREEK - TONAWANDA, N.Y.
PROPOSED IMPROVEMENTS (3 OF 4)

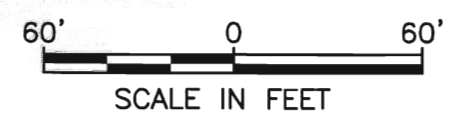


FIGURE 3

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MATCHLINE FIGURE 9



TWO MILE CREEK – TONAWANDA, N.Y. PROPOSED IMPROVEMENTS (4 OF 4)	
URS	FIGURE 4

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