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**GE Corporate
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August 21, 1998

Douglas J. Tomchuk
Emergency and Remedial Response Division
U.S. Environmental Protection Agency
290 Broadway, 20th Floor
New York, New York 10007

RE: TIP SEDIMENT CORING PROGRAM – SAMPLING AND ANALYSIS PLAN

Dear Mr. Tomchuk:

Please find enclosed four copies of an addendum to the field sampling plan (FSP) entitled **Hudson River Project: Thompson Island Pool Sediment Coring Program** (June 12, 1998) prepared by Quantitative Environmental Analysis (QEA). The purpose of the activities described in this FSP addendum is to provide data from additional locations in the Hudson River for this program.

It is anticipated that the activities described in this FSP addendum will be completed by the end of August, 1998. Your comments or suggestions would be welcomed. Please note that we will continue to provide you with data as we receive it from the laboratory. Additionally, the data will be presented in a data summary report which we anticipate being available by early October, 1998. Please place a copy of this letter and the work plan addendum into the Hudson River Site Administrative Record.

Yours Truly,

Mark D. LaRue /for

John G. Haggard

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encl:

cc: Richard Caspe, - U.S. EPA
William McCabe - U.S. EPA
Douglas Fischer - U.S. EPA
Jon Butcher - TetraTech
Walt Demick - NYDEC (4 copies)
Victor Biermann - LimnoTech (3 copies)
Lisa Rosman - NOAA
Charlie Menzie - Menzie Cura Associates
Ed Garvey - TAMS

GENERAL ELECTRIC COMPANY - HUDSON RIVER PROJECT
TIP SEDIMENT CORING PROGRAM
FIELD SAMPLING PLAN ADDENDUM

This Field Sampling Plan (FSP) addendum has been prepared by Quantitative Environmental Analysis, LLC (QEA) on behalf of the General Electric Company (GE) to describe additional activities that will be performed as part of the 1998 Thompson Island Pool (TIP) sediment coring program. The procedures and approach employed for these additional activities will be consistent with those presented in the TIP Sediment Coring Program FSP (QEA, 1998), except as noted in this FSP addendum.

2.2 Sampling Locations

Core samples will be collected from 12 additional locations in the upper Hudson River. These locations will be consistent with sampling locations utilized by the USEPA in 1994, and are listed in Table A1-1. Target coordinate locations are presented in Table A1-2. Approximate sampling locations are illustrated in Figure A1-1.

2.3 Core Segmentation and Analysis Scheme

Cores collected at USEPA locations LR-09d, LR-11b, LR-11c, and LR-12c will be segmented and analyzed in accordance with the procedures described for the focused sediment coring program in Section 2.4.1 of the FSP. The cores collected from the remaining locations will be segmented into 1 cm thick slices throughout the entire core. The top 5 segments, and every 5th segment thereafter will be submitted to Northeast Analytical, Inc. (NEA) for analysis (eg., segments submitted for analysis will include 0-1, 1-2, 2-3, 4-5, 9-10, 14-15, 19-20 cm, and so forth). The remaining segments will be shipped to the laboratory and archived for possible future analysis. Laboratory analysis for all of the samples collected as a result of implementation of this FSP addendum will be consistent with the focused sediment coring program, and will include congener specific PCBs, TOC, moisture content, bulk density, ¹³⁷Cs and ⁷Be analysis.

REFERENCES:

QEA, 1998. *Thompson Island Pool Sediment Coring Program, Field Sampling Plan*. Quantitative Environmental Analysis, LLC, June 1998.

GENERAL ELECTRIC COMPANY - Hudson River Project

Thompson Island Pool Sediment Coring Program

TABLE A1-1. Summary of Samples for Focused Sediment Coring Program Extension

1976 NYSDEC Hot Spot	1994 USEPA Phase 2 Low Res Station	1998 GE/QEA Cesium Coring Station	Maximum Core Depths (cm)		Number of Sections for Analysis			
			1994	1998**	top 5 cm	5 to 23 cm	23 cm to end	TOTAL
8	LR-12C	FS-08-5	48	52	5	1	2	8
8	LR-11C	FS-08-6	30	34	5	1	1	7
8	LR-11B	FS-08-7	46	50	5	1	2	8
9	LR-09D	FS-09-5	43	47	5	1	2	8
28	LH-28E	FS-28-1	79	83	5	3	12	20
28	LH-28I	FS-28-2	102	106	5	3	17	25
28	LH-28M	FS-28-3	137	141	5	3	24	32
28	LH-28N	FS-28-4	112	116	5	3	19	27
37	LH-37C	FS-37-1	53	57	5	3	7	15
37	LH-37J	FS-37-2	46	50	5	3	6	14
37	LH-37K	FS-37-3	30	34	5	3	3	11
37	LH-37O	FS-37-4	69	73	5	3	10	18
TOTAL					60	28	105	193
ANALYSES					¹³⁷ Cs & ⁷ Be		PCBs, TOC, moisture content, & bulk density	
					182		193	

Notes

**1998 depths estimated assuming constant deposition rate of 1 cm/year (avg from EPA HR Cores in TIP)

Cores FS-08-XX and FS-09-XX segmented @ 1 cm (0-5 cm), 18 cm (5-23 cm), and 23 cm (23-end cm)

Cores FS-28-XX and FS-37-XX segmented @ 1 cm for entire core

PCB, TOC, moisture content, bulk density analyses on all sections for FS-08-XX and FS-09-XX

PCB, TOC, moisture content, bulk density analyses on top 5 cm and every fifth section thereafter for FS-28-XX and FS-37-XX

¹³⁷Cs & ⁷Be analyses on top 5 cm for FS-08-XX and FS-09-XX

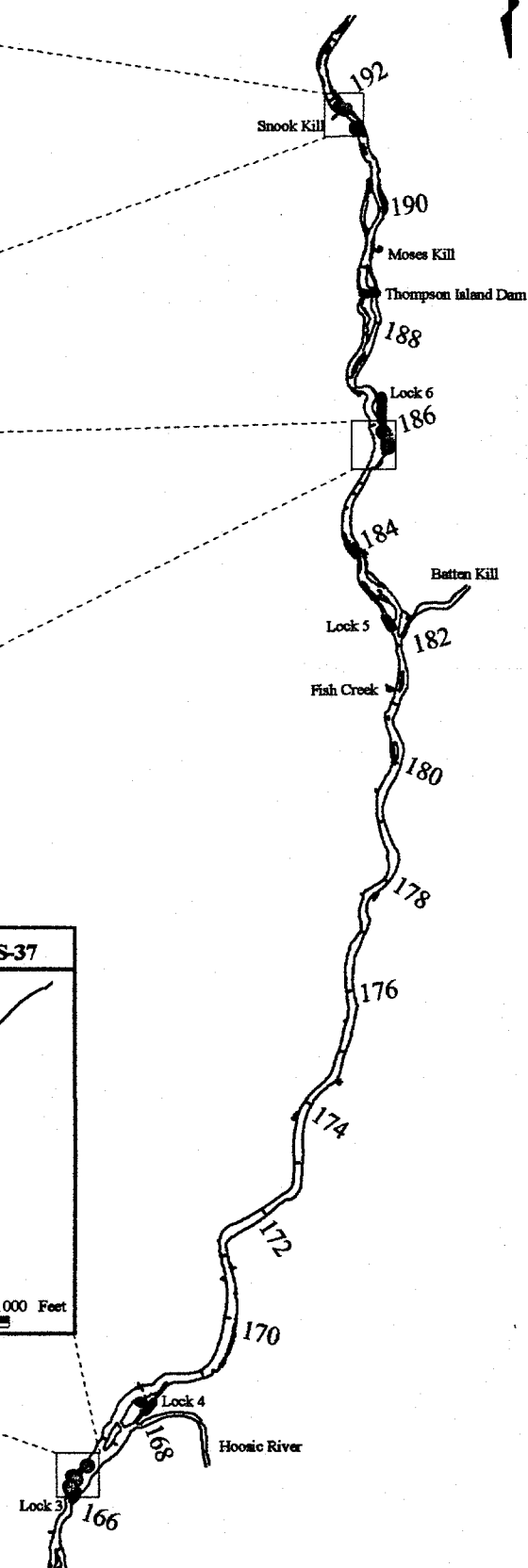
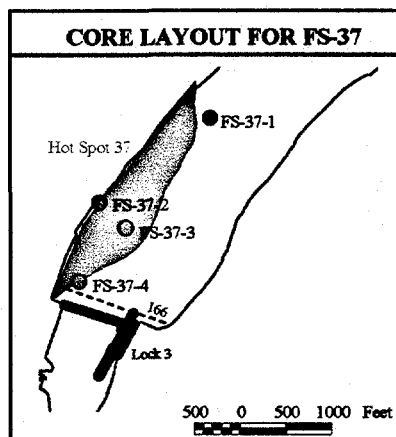
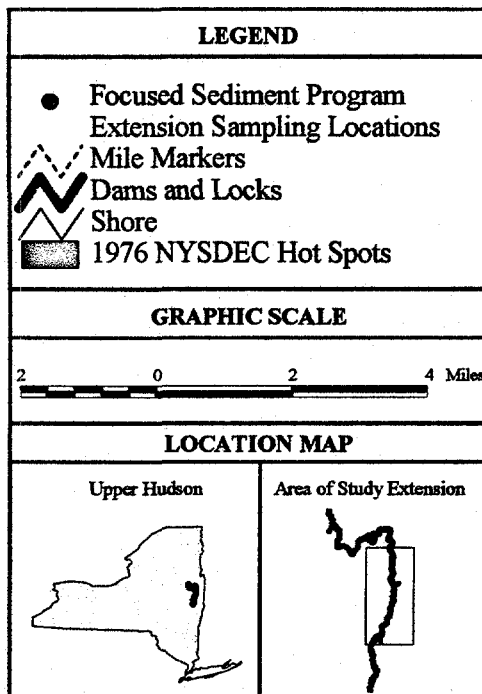
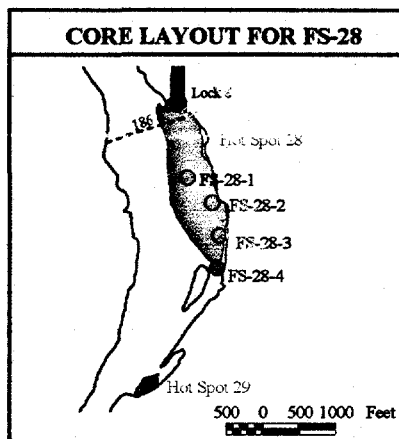
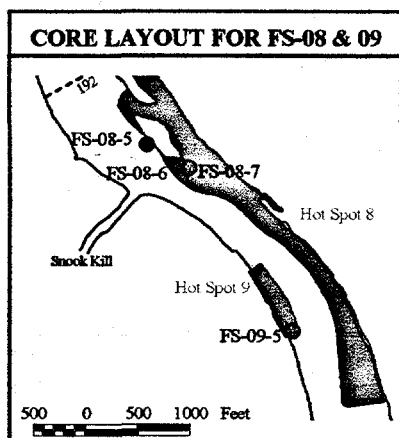
¹³⁷Cs & ⁷Be analyses on top 5 cm and every fifth section thereafter for FS-28-XX and FS-37-XX

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Thompson Island Pool Sediment Coring Program

TABLE A1-2. Coordinates for Sampling Locations: Focused Sediment Program Extension

Sample	NYS East State Plane NAD27 (ft)		NYS East State Plane NAD83 (ft)	
STATION	NORTHING	EASTING	NORTHING	EASTING
FS-08-5	1178630	697384	1603949	734022
FS-08-6	1178430	697673	1603750	734311
FS-08-7	1178400	697781	1603720	734419
FS-09-5	1176814	698767	1602136	735408
FS-28-1	1151197	701022	1576525	737714
FS-28-2	1150852	701364	1576181	738057
FS-28-3	1150394	701455	1575723	738149
FS-28-4	1149939	701418	1575268	738113
FS-37-1	1064038	676500	1489321	713367
FS-37-2	1063107	675291	1488388	712160
FS-37-3	1062825	675583	1488106	712452
FS-37-4	1062236	675074	1487516	711945



GENERAL ELECTRIC COMPANY - Hudson River Project
Thompson Island Pool Sediment Coring Program
Focused Sediment Coring Program Extension

FIGURE A1-1.
Sampling Locations for
Extension to the Focused
Sediment Program



GENhud 150 August 1998