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Transmitted Via Overnight Delivery

March 16, 2009

Ms. Susan Svirsky
U.S. Environmental Protection Agency
c/o Weston Solutions, Inc.
10 Lyman Street
Pittsfield, MA 01201

Re: GE-Pittsfield/Housatonic River Site
Unkamet Brook Area (GECD170)
December 2008 Supplemental Investigations Data Summary

Dear Ms. Svirsky:

On September 12, 2008, the General Electric Company (GE) submitted the Scope of Supplemental Investigations and Status Update letter (Scope and Status Update) to the United States Environmental Protection Agency (EPA). That letter provided: 1) an updated schedule related to the performance of supplemental investigation activities to be conducted within Unkamet Brook Area–Remainder; 2) a proposed scope of sampling and analyses to be carried out at three locations within the southernmost portion of the Removal Action Area (RAA); 3) revised information related to proposed supplemental utility corridor characterization activities to be conducted within Unkamet Brook Area–Remainder; and 4) a summary of the supplemental investigation activities that had been completed by GE prior to the submittal of the Scope and Status Update (e.g., various survey activities, sampling and analysis within Unkamet Brook Area – West). EPA conditionally approved the Scope and Status Update in a letter to GE dated November 4, 2008.

In addition to the above, the Scope and Status Update indicated that GE would provide the results of the sampling proposed in that letter to EPA within 45 days following receipt of the analytical results. Accordingly, GE has prepared this December 2008 Supplemental Investigations Data Summary letter (December 2008 Data Summary Letter). As further described below, this letter summarizes the analytical results associated with December 2008 supplemental investigation activities conducted in the southernmost portion of the RAA and analytical results associated with the above-referenced supplemental utility corridor characterization activities, and provides the associated soil boring logs and a data validation report for the analytical results summarized herein.

A. Supplemental Investigations Results

GE performed the supplemental investigation activities summarized in the Scope and Status Update at Unkamet Brook Area - Remainder (including the utility characterization sampling) between December 18 and 23, 2008. Field investigations were performed on behalf of GE by ARCADIS, while analytical services were provided by SGS Environmental Services, Inc. Analytical results from the December 2008 supplemental investigations related to polychlorinated biphenyls (PCBs) and other constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents – benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine (Appendix IX+3) are summarized in Tables 1 and

2, respectively. Sampling locations associated with the December 2008 supplemental investigations are shown on Figure 1. As further described below, the results of these investigations will be included in upcoming Removal Design/Removal Action (RD/RA) evaluations associated with Unkamet Brook Area–Remainder.

Following receipt of the preliminary polychlorinated biphenyl (PCB) analytical results from the laboratory (now shown as final results in Table 1), GE and EPA participated in discussions related to the potential modification of the southernmost RAA boundary. Based on those discussions, the modified boundary proposed by GE and agreed to by EPA is shown on Figure 1. This boundary will be used in upcoming RD/RA evaluations associated with Unkamet Brook Area–Remainder.

Soil boring logs associated with the December 2008 supplemental investigations are provided in Appendix A. Please note that Appendix A also includes soil boring logs associated with six supplemental surface (0- to 1-foot) sample locations associated with PCB analytical results previously summarized in the October 3, 2007 Proposal for Additional Supplemental PCB Pre-Design Investigations letter (locations RAA10-E-BBB27, RAA10-E-KKLL6.5, and RAA10-E-MMNN8.5) and the April 24, 2008 Second Supplement to the Pre-Design Report for Unkamet Brook Area Removal Action letter (locations RAA10-E-BBBCCC27, RAA10-E-CCC27, and RAA10-E-CCCDDD27). Soil boring logs associated with these locations were inadvertently excluded from those letters.

B. Data Validation

A data validation report associated with the analytical results shown on Tables 1 and 2 is provided in Appendix B of this document. The analytical results were reviewed in accordance with the data validation protocols included in GE's approved *Field Sampling Plan/Quality Assurance Project Plan* (FSP/QAPP). As discussed in the data validation memorandum, 95% of these results are useable for RD/RA evaluations, which is greater than the minimum required usability of 90% specified in the FSP/QAPP.

C. Upcoming Schedule

GE is currently developing a Conceptual RD/RA Work Plan for Unkamet Brook Area – Remainder. That work plan is due to EPA on March 27, 2009. Evaluations provided therein will include the supplemental analytical results provided in Tables 1 and 2 of this letter.

Please call me if you have any questions or comments regarding this document.

Sincerely,

Richard W. Gates/ace

Richard W. Gates
Remediation Project Manager

Attachments

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Tables

TABLE 1
SUMMARY OF DECEMBER 2008 SUPPLEMENTAL PCB ANALYTICAL RESULTS

DECEMBER 2008 SUPPLEMENTAL INVESTIGATIONS DATA SUMMARY
UNKAMET BROOK AREA - REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA10-E-AAA22	1-3	12/19/2008	ND(0.034)	ND(0.034)	0.052	0.052
	3-6	12/19/2008	ND(0.033)	ND(0.033)	0.27	0.27
	6-15	12/19/2008	ND(0.037)	ND(0.037)	0.30	0.30
	15-19	12/19/2008	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)
RAA10-E-BBB26	0-1	12/18/2008	ND(0.039)	0.43	ND(0.039)	0.43
	1-3	12/18/2008	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	3-6	12/18/2008	ND(0.032)	ND(0.032)	ND(0.032)	ND(0.032)
	6-15	12/18/2008	ND(0.38) [ND(0.76)]	2.4 [3.5]	5.2 [7.1]	7.6 [10.6]
RAA10-E-BBB28	0-1	12/18/2008	ND(0.045)	ND(0.045)	0.067	0.067
	1-3	12/18/2008	ND(0.037)	ND(0.037)	0.0052 J	0.0052 J
	3-6	12/18/2008	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	6-15	12/18/2008	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA10-E-DDD27	0-1	12/18/2008	ND(0.040)	0.15	0.13	0.28
	1-3	12/18/2008	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	3-6	12/18/2008	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	6-15	12/18/2008	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA10-E-TT19	1-3	12/22/2008	ND(19)	130	ND(19)	130
	3-6	12/22/2008	ND(0.035)	0.011 J	ND(0.035)	0.011 J
	6-15	12/22/2008	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)
RAA10-E-YY20	1-3	12/22/2008	ND(1.8)	1.0 J	3.7	4.7
	3-6	12/22/2008	ND(1.8)	3.6	11	14.6
	6-15	12/22/2008	ND(0.19)	0.69	0.92	1.61
RAA10-E-ZZ27	1-3	12/19/2008	ND(7.7)	120	ND(7.7)	120
	3-6	12/19/2008	ND(0.044)	0.57	ND(0.044)	0.57
	6-15	12/19/2008	ND(0.034)	0.017 J	ND(0.034)	0.017 J
UB-UTL-4	1-3	12/23/2008	ND(1.8)	5.7	12	17.7
	3-6	12/23/2008	ND(1.8)	4.2	ND(1.8)	4.2
	6-10	12/23/2008	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
UB-UTL-5	1-3	12/23/2008	ND(0.037)	0.060	0.20	0.26
	3-6	12/23/2008	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	6-12	12/23/2008	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
UB-UTL-6	0-1	12/23/2008	ND(0.076)	0.53	0.59	1.12
	1-3	12/23/2008	ND(0.034)	0.039	0.043	0.082
	3-6	12/23/2008	ND(0.036)	0.035 J	0.041	0.076
	6-12	12/23/2008	ND(0.74)	ND(0.74)	5.1	5.1
UB-UTL-7	1-3	12/22/2008	ND(0.36)	5.4	ND(0.36)	5.4
	3-6	12/22/2008	ND(0.038) [ND(0.037)]	0.049 [0.029 J]	ND(0.038) [ND(0.037)]	0.049 [0.029 J]
	6-12	12/22/2008	ND(0.37)	ND(0.37)	5.2	5.2
UB-UTL-8	1-3	12/22/2008	ND(0.040)	0.015 J	0.021 J	0.036 J
	3-6	12/22/2008	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	6-15	12/22/2008	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
UB-UTL-9	1-3	12/22/2008	ND(0.070)	0.70	0.74	1.44
	3-6	12/22/2008	ND(0.17)	0.74	1.7	2.44
	6-15	12/22/2008	ND(0.033)	0.011 J	0.020 J	0.031 J
UB-UTL-10	1-3	12/19/2008	ND(0.038) [ND(0.037)]	ND(0.038) [ND(0.037)]	0.15 [0.15]	0.15 [0.15]
	3-6	12/19/2008	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)
	6-15	12/19/2008	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)

Notes:

1. Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of PCBs.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS (approved March 15, 2007 and re-submitted March 30, 2007).
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
4. Field duplicate sample results are presented in brackets.

Data Qualifiers:

J - Indicates that the associated numerical value is an estimated concentration.

TABLE 2
SUMMARY OF DECEMBER 2008 SUPPLEMENTAL APPENDIX IX+3 ANALYTICAL RESULTS

DECEMBER 2008 SUPPLEMENTAL INVESTIGATIONS DATA SUMMARY
UNKAMET BROOK AREA - REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	RAA10-E-BBB26 0-1 12/18/08	RAA10-E-BBB26 6-15 12/18/08	RAA10-E-BBB26 10-12 12/18/08	RAA10-E-BBB28 1-3 12/18/08
Volatile Organics					
1,1,1,2-Tetrachloroethane		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084)
1,1,1-Trichloroethane		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084)
1,1,2,2-Tetrachloroethane		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084)
1,1,2-Trichloroethane		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084)
1,1-Dichloroethane		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084)
1,1-Dichloroethene		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084)
1,2,3-Trichloropropane		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084)
1,2-Dibromo-3-chloropropane		ND(0.032)	NA	ND(0.028) [ND(0.029)]	ND(0.042)
1,2-Dibromoethane		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084) J
1,2-Dichloroethane		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084)
1,2-Dichloropropane		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084)
1,4-Dioxane		ND(6.3) J	NA	ND(5.5) J [ND(5.9) J]	ND(8.4) J
2-Butanone		ND(0.016) J	NA	ND(0.014) [ND(0.015) J]	ND(0.021)
2-Chloro-1,3-butadiene		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084)
2-Chloroethylvinylether		ND(0.032) J	NA	ND(0.028) J [ND(0.029) J]	R
2-Hexanone		ND(0.016)	NA	ND(0.014) [ND(0.015)]	ND(0.021) J
3-Chloropropene		ND(0.0063) J	NA	ND(0.0055) [ND(0.0059) J]	ND(0.0084)
4-Methyl-2-pentanone		ND(0.016)	NA	ND(0.014) [ND(0.015)]	ND(0.021)
Acetone		0.19 J	NA	ND(0.014) [ND(0.015) J]	ND(0.021)
Acetonitrile		ND(1.3) J	NA	ND(1.1) J [ND(1.2) J]	ND(1.7) J
Acrolein		ND(0.078) J	NA	ND(0.068) J [ND(0.072) J]	ND(0.10) J
Acrylonitrile		ND(0.063)	NA	ND(0.055) [ND(0.059)]	ND(0.084)
Benzene		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084)
Bromodichloromethane		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084) J
Bromoform		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084) J
Bromomethane		ND(0.0063)	NA	ND(0.0055) J [ND(0.0059)]	ND(0.0084) J
Carbon Disulfide		ND(0.0063) J	NA	ND(0.0055) [ND(0.0059) J]	ND(0.0084)
Carbon Tetrachloride		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084)
Chlorobenzene		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084) J
Chloroethane		ND(0.0063) J	NA	ND(0.0055) J [ND(0.0059) J]	ND(0.0084) J
Chloroform		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084)
Chloromethane		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084)
cis-1,3-Dichloropropene		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084) J
Dibromochloromethane		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084) J
Dibromomethane		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084) J
Dichlorodifluoromethane		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084)
Ethyl Methacrylate		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084)
Ethylbenzene		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084) J
Iodomethane		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084)
Isobutanol		ND(3.2) J	NA	ND(2.8) [ND(2.9) J]	ND(4.2)
Methacrylonitrile		ND(0.63)	NA	ND(0.55) [ND(0.59)]	ND(0.84)
Methyl Methacrylate		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084)
Methylene Chloride		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084) J
Propionitrile		ND(1.3) J	NA	ND(1.1) J [ND(1.2) J]	ND(1.7) J
Styrene		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084) J
Tetrachloroethene		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084) J
Toluene		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084) J
trans-1,2-Dichloroethene		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084) J
trans-1,3-Dichloropropene		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084)
trans-1,4-Dichloro-2-butene		ND(0.014)	NA	ND(0.012) [ND(0.013)]	ND(0.018)
Trichloroethene		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084) J
Trichlorofluoromethane		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084)
Vinyl Acetate		ND(0.013)	NA	ND(0.011) [ND(0.012)]	ND(0.017)
Vinyl Chloride		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084)
Xylenes (total)		ND(0.0063)	NA	ND(0.0055) [ND(0.0059)]	ND(0.0084) J

TABLE 2
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Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
1,2,4-Trichlorobenzene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
1,2-Dichlorobenzene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
1,3,5-Trinitrobenzene		ND(1.9)	ND(1.9) [ND(1.9)]	NA	ND(1.9)
1,3-Dichlorobenzene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
1,3-Dinitrobenzene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
1,4-Dichlorobenzene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
1,4-Naphthoquinone		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
1-Naphthylamine		ND(1.9)	ND(1.9) [ND(1.9)]	NA	ND(1.9)
2,3,4,6-Tetrachlorophenol		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
2,4,5-Trichlorophenol		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
2,4,6-Trichlorophenol		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
2,4-Dichlorophenol		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
2,4-Dimethylphenol		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37) J
2,4-Dinitrophenol		ND(1.9)	ND(1.9) [ND(1.9)]	NA	ND(1.9)
2,4-Dinitrotoluene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
2,6-Dichlorophenol		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
2,6-Dinitrotoluene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
2-Acetylaminofluorene		ND(0.77)	ND(0.75) [ND(0.76)]	NA	ND(0.74)
2-Chloronaphthalene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
2-Chlorophenol		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
2-Methylnaphthalene		0.16 J	ND(0.37) [ND(0.38)]	NA	0.19 J
2-Methylphenol		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
2-Naphthylamine		ND(1.9)	ND(1.9) [ND(1.9)]	NA	ND(1.9)
2-Nitroaniline		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37) J
2-Nitrophenol		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
2-Picoline		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
3&4-Methylphenol		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37) J
3,3'-Dichlorobenzidine		ND(0.77)	ND(0.75) [ND(0.76)]	NA	ND(0.74) J
3,3'-Dimethylbenzidine		ND(1.9)	ND(1.9) [ND(1.9)]	NA	ND(1.9)
3-Methylcholanthrene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
3-Nitroaniline		ND(1.9)	ND(1.9) [ND(1.9)]	NA	ND(1.9)
4,6-Dinitro-2-methylphenol		ND(1.9)	ND(1.9) [ND(1.9)]	NA	ND(1.9)
4-Aminobiphenyl		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
4-Bromophenyl-phenylether		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
4-Chloro-3-Methylphenol		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
4-Chloroaniline		ND(1.9) J	ND(1.9) J [ND(1.9) J]	NA	ND(1.9) J
4-Chlorobenzilate		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
4-Chlorophenyl-phenylether		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
4-Nitroaniline		ND(1.9)	ND(1.9) [ND(1.9)]	NA	ND(1.9)
4-Nitrophenol		ND(1.9) J	ND(1.9) J [ND(1.9) J]	NA	ND(1.9) J
4-Nitroquinoline-1-oxide		ND(1.9)	ND(1.9) [ND(1.9)]	NA	ND(1.9)
4-Phenylenediamine		ND(0.77)	ND(0.75) [ND(0.76)]	NA	ND(0.74)
5-Nitro-o-toluidine		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
7,12-Dimethylbenz(a)anthracene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
a,a'-Dimethylphenethylamine		ND(1.9)	ND(1.9) [ND(1.9)]	NA	ND(1.9)
Acenaphthene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Acenaphthylene		0.093 J	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Acetophenone		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Aniline		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Anthracene		0.070 J	ND(0.37) [ND(0.38)]	NA	0.078 J
Aramite		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Azobenzene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Benzidine		ND(0.77)	ND(0.75) [ND(0.76)]	NA	ND(0.74)
Benzo(a)anthracene		0.30 J	ND(0.37) [0.061 J]	NA	0.28 J
Benzo(a)pyrene		0.28 J	ND(0.37) [ND(0.38)]	NA	0.21 J
Benzo(b)fluoranthene		0.54	ND(0.37) [0.061 J]	NA	0.40

TABLE 2
SUMMARY OF DECEMBER 2008 SUPPLEMENTAL APPENDIX IX+3 ANALYTICAL RESULTS

DECEMBER 2008 SUPPLEMENTAL INVESTIGATIONS DATA SUMMARY
UNKAMET BROOK AREA - REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	RAA10-E-BBB26 0-1 12/18/08	RAA10-E-BBB26 6-15 12/18/08	RAA10-E-BBB26 10-12 12/18/08	RAA10-E-BBB28 1-3 12/18/08
Semivolatile Organics (continued)					
Benzo(g,h,i)perylene		0.22 J	ND(0.37) [ND(0.38)]	NA	0.13 J
Benzo(k)fluoranthene		0.18 J	ND(0.37) [ND(0.38)]	NA	0.13 J
Benzyl Alcohol		ND(0.77)	ND(0.75) [ND(0.76)]	NA	ND(0.74)
bis(2-Chloroethoxy)methane		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
bis(2-Chloroethyl)ether		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
bis(2-Chloroisopropyl)ether		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
bis(2-Ethylhexyl)phthalate		0.12 J	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Butylbenzylphthalate		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Chrysene		0.57	0.082 J [0.091 J]	NA	0.51
Diallate		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Dibenzo(a,h)anthracene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	0.048 J
Dibenzofuran		0.062 J	ND(0.37) [ND(0.38)]	NA	0.070 J
Diethylphthalate		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Dimethoate		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Dimethylphthalate		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Di-n-Butylphthalate		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Di-n-Octylphthalate		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Diphenylamine		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Disulfoton		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Ethyl Methanesulfonate		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Ethyl Parathion		ND(0.77)	ND(0.75) [ND(0.76)]	NA	ND(0.74)
Famphur		ND(1.9)	ND(1.9) [ND(1.9)]	NA	ND(1.9)
Fluoranthene		0.64	ND(0.37) [0.084 J]	NA	0.79
Fluorene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Hexachlorobenzene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Hexachlorobutadiene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Hexachlorocyclopentadiene		ND(0.77)	ND(0.75) [ND(0.76)]	NA	ND(0.74)
Hexachloroethane		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Hexachlorophene		ND(0.39) J	ND(0.37) J [ND(0.38) J]	NA	ND(0.37) J
Hexachloropropene		ND(0.77)	ND(0.75) [ND(0.76)]	NA	ND(0.74)
Indeno(1,2,3-cd)pyrene		0.21 J	ND(0.37) [ND(0.38)]	NA	0.14 J
Isodrin		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Isophorone		ND(0.39) J	ND(0.37) J [ND(0.38) J]	NA	ND(0.37) J
Isosafrole		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Kepone		ND(1.9)	ND(1.9) [ND(1.9)]	NA	ND(1.9)
Methapyrilene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Methyl Methanesulfonate		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Methyl Parathion		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Naphthalene		0.14 J	ND(0.37) [ND(0.38)]	NA	0.11 J
Nitrobenzene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
N-Nitrosodiethylamine		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
N-Nitrosodimethylamine		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
N-Nitroso-di-n-butylamine		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
N-Nitroso-di-n-propylamine		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
N-Nitrosomethylethylamine		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
N-Nitrosomorpholine		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
N-Nitrosopiperidine		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
N-Nitrosopyrrolidine		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
o,o,o-Triethylphosphorothioate		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
o-Toluidine		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
p-Dimethylaminoazobenzene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Pentachlorobenzene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Pentachloronitrobenzene		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Pentachlorophenol		ND(1.9)	ND(1.9) [ND(1.9)]	NA	ND(1.9)
Phenacetin		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Phenanthrene		0.36 J	0.075 J [0.084 J]	NA	0.58
Phenol		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)

TABLE 2
SUMMARY OF DECEMBER 2008 SUPPLEMENTAL APPENDIX IX+3 ANALYTICAL RESULTS

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UNKAMET BROOK AREA - REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

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Semivolatile Organics (continued)					
Phorate		ND(0.77)	ND(0.75) [ND(0.76)]	NA	ND(0.74)
Pronamide		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Pyrene		0.56	0.052 J [0.084 J]	NA	0.60
Pyridine		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Safrole		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Sulfotep		ND(0.39)	ND(0.37) [ND(0.38)]	NA	ND(0.37)
Thionazin		ND(0.77)	ND(0.75) [ND(0.76)]	NA	ND(0.74)
Organochlorine Pesticides					
4,4'-DDD		NA	0.13 J [0.11 J]	NA	ND(0.011)
4,4'-DDE		NA	R [R]	NA	ND(0.011)
4,4'-DDT		NA	0.27 J [0.22 J]	NA	0.0058 J
Aldrin		NA	R [R]	NA	ND(0.011)
Alpha-BHC		NA	R [R]	NA	ND(0.011)
Alpha-Chlordane		NA	R [R]	NA	ND(0.011)
Beta-BHC		NA	R [R]	NA	ND(0.011)
Delta-BHC		NA	R [R]	NA	ND(0.011)
Dieldrin		NA	0.075 J [0.11 J]	NA	ND(0.011)
Endosulfan I		NA	R [R]	NA	ND(0.011)
Endosulfan II		NA	R [R]	NA	ND(0.011)
Endosulfan Sulfate		NA	R [R]	NA	ND(0.011)
Endrin		NA	0.036 J [0.036 J]	NA	ND(0.011)
Endrin Aldehyde		NA	R [0.083 J]	NA	ND(0.011)
Endrin Ketone		NA	0.19 J [0.17 J]	NA	0.013 J
Gamma-BHC (Lindane)		NA	R [R]	NA	ND(0.011)
Gamma-Chlordane		NA	0.077 J [0.068 J]	NA	ND(0.011)
Heptachlor		NA	R [R]	NA	ND(0.011)
Heptachlor Epoxide		NA	0.031 J [0.030 J]	NA	ND(0.011)
Methoxychlor		NA	R [R]	NA	0.0025 J
Technical Chlordane		NA	R [R]	NA	ND(0.019)
Toxaphene		NA	R [R]	NA	ND(0.038)
Herbicides					
2,4,5-T		NA	ND(0.038) [ND(0.038)]	NA	ND(0.036)
2,4,5-TP		NA	ND(0.038) [ND(0.038)]	NA	ND(0.036)
2,4-D		NA	ND(0.038) [ND(0.038) J]	NA	ND(0.036)
Dinoseb		NA	0.087 J [0.12 J]	NA	ND(0.036) J
Furans					
2,3,7,8-TCDF		NA	0.0000016 Y [0.0000017 Y]	NA	ND(0.00000093) J
TCDFs (total)		NA	0.000024 [0.000024]	NA	0.0000080 J
1,2,3,7,8-PeCDF		NA	0.00000057 J [0.00000051 J]	NA	0.00000037 J
2,3,4,7,8-PeCDF		NA	0.0000027 J [0.0000025 J]	NA	0.00000043 J
PeCDFs (total)		NA	0.000043 J [0.000043 J]	NA	0.0000056 J
1,2,3,4,7,8-HxCDF		NA	0.000014 [0.000015]	NA	0.00000071 J
1,2,3,6,7,8-HxCDF		NA	0.0000019 J [0.0000016 J]	NA	ND(0.00000041) J
1,2,3,7,8,9-HxCDF		NA	0.0000011 J [0.0000011 J]	NA	ND(0.00000038)
2,3,4,6,7,8-HxCDF		NA	0.0000018 J [0.0000017 J]	NA	ND(0.00000038) X
HxCDFs (total)		NA	0.000050 [0.000049]	NA	0.0000025 J
1,2,3,4,6,7,8-HpCDF		NA	0.000026 [0.000026]	NA	0.0000020 J
1,2,3,4,7,8,9-HpCDF		NA	0.000017 [0.000019]	NA	ND(0.00000056)
HpCDFs (total)		NA	0.000079 [0.000082]	NA	0.0000029
OCDF		NA	0.00014 [0.00015]	NA	0.0000031 J

TABLE 2
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GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
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Dioxins					
2,3,7,8-TCDD		NA	ND(0.00000011) [ND(0.00000026)]	NA	ND(0.00000041) J
TCDDs (total)		NA	0.0000018 [0.00000097]	NA	0.0000026 J
1,2,3,7,8-PeCDD		NA	ND(0.00000053) [ND(0.00000053)]	NA	ND(0.00000054)
PeCDDs (total)		NA	0.0000021 J [0.0000012 J]	NA	0.0000011 J
1,2,3,4,7,8-HxCDD		NA	ND(0.00000053) [ND(0.00000060)]	NA	ND(0.00000055)
1,2,3,6,7,8-HxCDD		NA	ND(0.00000053) [ND(0.00000057)]	NA	ND(0.00000054)
1,2,3,7,8,9-HxCDD		NA	ND(0.00000053) [ND(0.00000059)]	NA	ND(0.00000054)
HxCDDs (total)		NA	0.0000028 [0.0000028]	NA	0.0000012 J
1,2,3,4,6,7,8-HpCDD		NA	0.0000017 J [0.0000014 J]	NA	0.0000013 J
HpCDDs (total)		NA	0.0000033 [0.0000028]	NA	0.0000013
OCDD		NA	0.0000097 J [0.0000072 J]	NA	0.0000081 J
Total TEQs (WHO TEFs)		NA	0.0000043 [0.0000043]	NA	0.0000010
Inorganics					
Antimony		1.10 J	ND(4.16) J [ND(4.91) J]	NA	ND(4.71) J
Arsenic		18.3	5.62 [5.03]	NA	15.8
Barium		46.3 B	36.7 B [36.2 B]	NA	62.9
Beryllium		ND(1.21)	ND(1.04) [1.44]	NA	1.08 B
Cadmium		ND(0.605)	ND(0.520) [ND(0.614)]	NA	ND(0.589)
Chromium		9.77	10.3 [12.0]	NA	6.88
Cobalt		4.59	8.67 [10.2]	NA	4.80
Copper		80.0	41.6 J [33.6 J]	NA	53.1 J
Lead		50.1	51.3 [36.9]	NA	33.9
Mercury		0.0838	0.0937 [0.115]	NA	0.0382 B
Nickel		10.1 J	13.3 J [19.0]	NA	8.43 J
Selenium		7.72 J	6.19 J [10.1]	NA	8.07
Silver		ND(1.21)	ND(1.04) [ND(1.23)]	NA	ND(1.18)
Thallium		ND(1.21) J	ND(1.04) J [ND(1.23) J]	NA	ND(1.18) J
Tin		ND(12.1) J	ND(10.4) J [ND(12.3) J]	NA	ND(11.8) J
Vanadium		19.4	11.5 [17.2]	NA	14.7
Zinc		63.4 J	42.6 J [84.8 J]	NA	9.05 J
Cyanide		ND(1.00)	ND(1.00) [ND(0.880)]	NA	ND(1.10)
Sulfide		18.0	16.0 [12.0]	NA	15.0 J

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Volatile Organics						
1,1,1,2-Tetrachloroethane		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
1,1,1-Trichloroethane		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
1,1,2,2-Tetrachloroethane		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
1,1,2-Trichloroethane		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
1,1-Dichloroethane		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
1,1-Dichloroethene		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
1,2,3-Trichloropropane		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
1,2-Dibromo-3-chloropropane		NA	ND(0.033)	ND(0.032)	NA	ND(0.025)
1,2-Dibromoethane		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
1,2-Dichloroethane		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
1,2-Dichloropropane		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
1,4-Dioxane		NA	ND(6.6) J	ND(6.4) J	NA	ND(5.0) J
2-Butanone		NA	0.014 J	ND(0.016) J	NA	ND(0.013)
2-Chloro-1,3-butadiene		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
2-Chloroethylvinylether		NA	ND(0.033) J	ND(0.032) J	NA	ND(0.025) J
2-Hexanone		NA	ND(0.016)	ND(0.016)	NA	ND(0.013)
3-Chloropropene		NA	ND(0.0066) J	ND(0.0064) J	NA	ND(0.0050)
4-Methyl-2-pentanone		NA	ND(0.016)	ND(0.016)	NA	ND(0.013)
Acetone		NA	0.21 J	0.083 J	NA	ND(0.013)
Acetonitrile		NA	ND(1.3) J	ND(1.3) J	NA	ND(1.0) J
Acrolein		NA	ND(0.081) J	ND(0.079) J	NA	ND(0.062) J
Acrylonitrile		NA	ND(0.066)	ND(0.064)	NA	ND(0.050)
Benzene		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
Bromodichloromethane		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
Bromoform		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
Bromomethane		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050) J
Carbon Disulfide		NA	ND(0.0066) J	ND(0.0064) J	NA	ND(0.0050)
Carbon Tetrachloride		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
Chlorobenzene		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
Chloroethane		NA	ND(0.0066) J	ND(0.0064) J	NA	ND(0.0050) J
Chloroform		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
Chloromethane		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
cis-1,3-Dichloropropene		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
Dibromochloromethane		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
Dibromomethane		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
Dichlorodifluoromethane		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
Ethyl Methacrylate		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
Ethylbenzene		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
Iodomethane		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
Isobutanol		NA	ND(3.3) J	ND(3.2) J	NA	ND(2.5)
Methacrylonitrile		NA	ND(0.66)	ND(0.64)	NA	ND(0.50)
Methyl Methacrylate		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
Methylene Chloride		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
Propionitrile		NA	ND(1.3) J	ND(1.3) J	NA	ND(1.0) J
Styrene		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
Tetrachloroethene		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
Toluene		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
trans-1,2-Dichloroethene		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
trans-1,3-Dichloropropene		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
trans-1,4-Dichloro-2-butene		NA	ND(0.014)	ND(0.014)	NA	ND(0.011)
Trichloroethene		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
Trichlorofluoromethane		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
Vinyl Acetate		NA	ND(0.013)	ND(0.013)	NA	ND(0.010)
Vinyl Chloride		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)
Xylenes (total)		NA	ND(0.0066)	ND(0.0064)	NA	ND(0.0050)

TABLE 2
SUMMARY OF DECEMBER 2008 SUPPLEMENTAL APPENDIX IX+3 ANALYTICAL RESULTS

DECEMBER 2008 SUPPLEMENTAL INVESTIGATIONS DATA SUMMARY
UNKAMET BROOK AREA - REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter / Sample ID: / Sample Depth(Feet): / Date Collected:	RAA10-E-BBB28 6-15 12/18/08	RAA10-E-BBB28 12-14 12/18/08	RAA10-E-DDD27 0-1 12/18/08	RAA10-E-DDD27 3-6 12/18/08	RAA10-E-DDD27 4-6 12/18/08
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
1,2,4-Trichlorobenzene	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
1,2-Dichlorobenzene	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
1,3,5-Trinitrobenzene	ND(2.0)	NA	ND(9.9)	ND(1.7)	NA
1,3-Dichlorobenzene	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
1,3-Dinitrobenzene	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
1,4-Dichlorobenzene	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
1,4-Naphthoquinone	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
1-Naphthylamine	ND(2.0)	NA	ND(9.9)	ND(1.7)	NA
2,3,4,6-Tetrachlorophenol	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
2,4,5-Trichlorophenol	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
2,4,6-Trichlorophenol	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
2,4-Dichlorophenol	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
2,4-Dimethylphenol	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
2,4-Dinitrophenol	ND(2.0)	NA	ND(9.9)	ND(1.7)	NA
2,4-Dinitrotoluene	0.57	NA	ND(2.0)	ND(0.35)	NA
2,6-Dichlorophenol	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
2,6-Dinitrotoluene	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
2-Acetylaminofluorene	ND(0.81)	NA	ND(3.9)	ND(0.70)	NA
2-Chloronaphthalene	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
2-Chlorophenol	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
2-Methylnaphthalene	ND(0.40)	NA	0.43 J	ND(0.35)	NA
2-Methylphenol	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
2-Naphthylamine	ND(2.0)	NA	ND(9.9)	ND(1.7)	NA
2-Nitroaniline	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
2-Nitrophenol	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
2-Picoline	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
3&4-Methylphenol	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
3,3'-Dichlorobenzidine	ND(0.81)	NA	ND(3.9)	ND(0.70)	NA
3,3'-Dimethylbenzidine	ND(2.0)	NA	ND(9.9)	ND(1.7)	NA
3-Methylcholanthrene	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
3-Nitroaniline	ND(2.0)	NA	ND(9.9)	ND(1.7)	NA
4,6-Dinitro-2-methylphenol	ND(2.0)	NA	ND(9.9)	ND(1.7)	NA
4-Aminobiphenyl	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
4-Bromophenyl-phenylether	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
4-Chloro-3-Methylphenol	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
4-Chloroaniline	ND(2.0) J	NA	ND(9.9)	ND(1.7) J	NA
4-Chlorobenzilate	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
4-Chlorophenyl-phenylether	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
4-Nitroaniline	ND(2.0)	NA	ND(9.9)	ND(1.7)	NA
4-Nitrophenol	ND(2.0) J	NA	ND(9.9) J	ND(1.7) J	NA
4-Nitroquinoline-1-oxide	ND(2.0)	NA	ND(9.9)	ND(1.7)	NA
4-Phenylenediamine	ND(0.81)	NA	ND(3.9)	ND(0.70)	NA
5-Nitro-o-toluidine	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
7,12-Dimethylbenz(a)anthracene	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
a,a'-Dimethylphenethylamine	ND(2.0)	NA	ND(9.9)	ND(1.7)	NA
Acenaphthene	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Acenaphthylene	ND(0.40)	NA	3.5	ND(0.35)	NA
Acetophenone	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Aniline	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Anthracene	ND(0.40)	NA	1.9 J	ND(0.35)	NA
Aramite	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Azobenzene	ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Benzidine	ND(0.81)	NA	ND(3.9)	ND(0.70)	NA
Benzo(a)anthracene	0.064 J	NA	9.5	ND(0.35)	NA
Benzo(a)pyrene	ND(0.40)	NA	7.4	ND(0.35)	NA
Benzo(b)fluoranthene	0.072 J	NA	11	ND(0.35)	NA

TABLE 2
SUMMARY OF DECEMBER 2008 SUPPLEMENTAL APPENDIX IX+3 ANALYTICAL RESULTS

DECEMBER 2008 SUPPLEMENTAL INVESTIGATIONS DATA SUMMARY
UNKAMET BROOK AREA - REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	RAA10-E-BBB28 6-15 12/18/08	RAA10-E-BBB28 12-14 12/18/08	RAA10-E-DDD27 0-1 12/18/08	RAA10-E-DDD27 3-6 12/18/08	RAA10-E-DDD27 4-6 12/18/08
Semivolatile Organics (continued)						
Benzo(g,h,i)perylene		ND(0.40)	NA	3.8	ND(0.35)	NA
Benzo(k)fluoranthene		ND(0.40)	NA	4.2	ND(0.35)	NA
Benzyl Alcohol		ND(0.81)	NA	ND(3.9)	ND(0.70)	NA
bis(2-Chloroethoxy)methane		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
bis(2-Chloroethyl)ether		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
bis(2-Chloroisopropyl)ether		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
bis(2-Ethylhexyl)phthalate		0.13 J	NA	ND(2.0)	ND(0.35)	NA
Butylbenzylphthalate		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Chrysene		0.093 J	NA	11	0.059 J	NA
Diallate		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Dibenzo(a,h)anthracene		ND(0.40)	NA	1.4 J	ND(0.35)	NA
Dibenzofuran		ND(0.40)	NA	0.37 J	ND(0.35)	NA
Diethylphthalate		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Dimethoate		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Dimethylphthalate		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Di-n-Butylphthalate		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Di-n-Octylphthalate		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Diphenylamine		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Disulfoton		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Ethyl Methanesulfonate		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Ethyl Parathion		ND(0.81)	NA	ND(3.9)	ND(0.70)	NA
Famphur		ND(2.0)	NA	ND(9.9)	ND(1.7)	NA
Fluoranthene		0.13 J	NA	15	0.070 J	NA
Fluorene		ND(0.40)	NA	0.77 J	ND(0.35)	NA
Hexachlorobenzene		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Hexachlorobutadiene		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Hexachlorocyclopentadiene		ND(0.81)	NA	ND(3.9)	ND(0.70)	NA
Hexachloroethane		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Hexachlorophene		ND(0.40) J	NA	ND(9.9) J	ND(0.35) J	NA
Hexachloropropene		ND(0.81)	NA	ND(3.9)	ND(0.70)	NA
Indeno(1,2,3-cd)pyrene		ND(0.40)	NA	3.7	ND(0.35)	NA
Isodrin		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Isophorone		ND(0.40) J	NA	ND(2.0) J	ND(0.35) J	NA
Isosafrole		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Kepone		ND(2.0)	NA	ND(2.0)	ND(1.7)	NA
Methapyrilene		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Methyl Methanesulfonate		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Methyl Parathion		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Naphthalene		ND(0.40)	NA	0.45 J	ND(0.35)	NA
Nitrobenzene		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
N-Nitrosodiethylamine		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
N-Nitrosodimethylamine		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
N-Nitroso-di-n-butylamine		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
N-Nitroso-di-n-propylamine		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
N-Nitrosomethylethylamine		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
N-Nitrosomorpholine		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
N-Nitrosopiperidine		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
N-Nitrosopyrrolidine		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
o,o,o-Triethylphosphorothioate		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
o-Toluidine		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
p-Dimethylaminoazobenzene		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Pentachlorobenzene		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Pentachloronitrobenzene		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Pentachlorophenol		ND(2.0)	NA	ND(9.9)	ND(1.7)	NA
Phenacetin		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Phenanthrene		0.15 J	NA	6.4	0.091 J	NA
Phenol		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA

TABLE 2
SUMMARY OF DECEMBER 2008 SUPPLEMENTAL APPENDIX IX+3 ANALYTICAL RESULTS

DECEMBER 2008 SUPPLEMENTAL INVESTIGATIONS DATA SUMMARY
UNKAMET BROOK AREA - REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	RAA10-E-BBB28 6-15 12/18/08	RAA10-E-BBB28 12-14 12/18/08	RAA10-E-DDD27 0-1 12/18/08	RAA10-E-DDD27 3-6 12/18/08	RAA10-E-DDD27 4-6 12/18/08
Semivolatile Organics (continued)						
Phorate		ND(0.81)	NA	ND(2.0) J	ND(0.70)	NA
Pronamide		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Pyrene		0.10 J	NA	18	0.059 J	NA
Pyridine		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Safrole		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Sulfotep		ND(0.40)	NA	ND(2.0)	ND(0.35)	NA
Thionazin		ND(0.81)	NA	ND(3.9)	ND(0.70)	NA
Organochlorine Pesticides						
4,4'-DDD		NA	NA	R	NA	NA
4,4'-DDE		NA	NA	R	NA	NA
4,4'-DDT		NA	NA	0.052 J	NA	NA
Aldrin		NA	NA	R	NA	NA
Alpha-BHC		NA	NA	R	NA	NA
Alpha-Chlordane		NA	NA	R	NA	NA
Beta-BHC		NA	NA	R	NA	NA
Delta-BHC		NA	NA	R	NA	NA
Dieldrin		NA	NA	R	NA	NA
Endosulfan I		NA	NA	R	NA	NA
Endosulfan II		NA	NA	R	NA	NA
Endosulfan Sulfate		NA	NA	R	NA	NA
Endrin		NA	NA	R	NA	NA
Endrin Aldehyde		NA	NA	R	NA	NA
Endrin Ketone		NA	NA	0.041 J	NA	NA
Gamma-BHC (Lindane)		NA	NA	R	NA	NA
Gamma-Chlordane		NA	NA	R	NA	NA
Heptachlor		NA	NA	R	NA	NA
Heptachlor Epoxide		NA	NA	R	NA	NA
Methoxychlor		NA	NA	R	NA	NA
Technical Chlordane		NA	NA	R	NA	NA
Toxaphene		NA	NA	R	NA	NA
Herbicides						
2,4,5-T		NA	NA	0.0036 J	NA	NA
2,4,5-TP		NA	NA	ND(0.039)	NA	NA
2,4-D		NA	NA	ND(0.039)	NA	NA
Dinoseb		NA	NA	ND(0.039) J	NA	NA
Furans						
2,3,7,8-TCDF		NA	NA	0.000019 J	NA	NA
TCDFs (total)		NA	NA	0.00018 J	NA	NA
1,2,3,7,8-PeCDF		NA	NA	0.0000057 J	NA	NA
2,3,4,7,8-PeCDF		NA	NA	0.000015 J	NA	NA
PeCDFs (total)		NA	NA	0.00015 J	NA	NA
1,2,3,4,7,8-HxCDF		NA	NA	0.000013 J	NA	NA
1,2,3,6,7,8-HxCDF		NA	NA	0.0000080 J	NA	NA
1,2,3,7,8,9-HxCDF		NA	NA	ND(0.0000049)	NA	NA
2,3,4,6,7,8-HxCDF		NA	NA	0.0000094 J	NA	NA
HxCDFs (total)		NA	NA	0.00013 J	NA	NA
1,2,3,4,6,7,8-HpCDF		NA	NA	0.000041 J	NA	NA
1,2,3,4,7,8,9-HpCDF		NA	NA	0.0000078 J	NA	NA
HpCDFs (total)		NA	NA	0.00014 J	NA	NA
OCDF		NA	NA	0.000074 J	NA	NA

TABLE 2
SUMMARY OF DECEMBER 2008 SUPPLEMENTAL APPENDIX IX+3 ANALYTICAL RESULTS

DECEMBER 2008 SUPPLEMENTAL INVESTIGATIONS DATA SUMMARY
UNKAMET BROOK AREA - REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	RAA10-E-BBB28 6-15 12/18/08	RAA10-E-BBB28 12-14 12/18/08	RAA10-E-DDD27 0-1 12/18/08	RAA10-E-DDD27 3-6 12/18/08	RAA10-E-DDD27 4-6 12/18/08
Dioxins						
2,3,7,8-TCDD		NA	NA	0.000028 J	NA	NA
TCDDs (total)		NA	NA	0.000097J	NA	NA
1,2,3,7,8-PeCDD		NA	NA	0.0000037 J	NA	NA
PeCDDs (total)		NA	NA	0.000071 J	NA	NA
1,2,3,4,7,8-HxCDD		NA	NA	ND(0.0000034)	NA	NA
1,2,3,6,7,8-HxCDD		NA	NA	0.0000036 J	NA	NA
1,2,3,7,8,9-HxCDD		NA	NA	0.0000026 J	NA	NA
HxCDDs (total)		NA	NA	0.00016 J	NA	NA
1,2,3,4,6,7,8-HpCDD		NA	NA	0.000074	NA	NA
HpCDDs (total)		NA	NA	0.00016	NA	NA
OCDD		NA	NA	0.00061	NA	NA
Total TEQs (WHO TEFs)		NA	NA	0.000047	NA	NA
Inorganics						
Antimony		ND(4.57) J	NA	9.38 J	ND(4.28) J	NA
Arsenic		6.61	NA	121	5.08	NA
Barium		60.3	NA	75.9	24.6 B	NA
Beryllium		ND(1.14)	NA	ND(1.28)	0.931 B	NA
Cadmium		ND(0.572)	NA	ND(0.639)	ND(0.535)	NA
Chromium		14.2	NA	22.8	10.5	NA
Cobalt		12.8	NA	16.7	14.4	NA
Copper		47.2 J	NA	154 J	33.3 J	NA
Lead		42.1	NA	186	29.4	NA
Mercury		0.373	NA	0.166	0.108	NA
Nickel		19.7	NA	19.2	20.7	NA
Selenium		8.28	NA	43.0	6.94	NA
Silver		ND(1.14)	NA	0.451 B	ND(1.07)	NA
Thallium		ND(1.14) J	NA	2.42 J	ND(1.07) J	NA
Tin		6.19 J	NA	10.7 J	ND(10.7) J	NA
Vanadium		16.1	NA	24.3	12.2	NA
Zinc		70.7 J	NA	57.0 J	73.0 J	NA
Cyanide		ND(0.930)	NA	ND(0.950)	ND(0.840)	NA
Sulfide		15.0	NA	12.0	11.0	NA

TABLE 2
SUMMARY OF DECEMBER 2008 SUPPLEMENTAL APPENDIX IX+3 ANALYTICAL RESULTS

DECEMBER 2008 SUPPLEMENTAL INVESTIGATIONS DATA SUMMARY
UNKAMET BROOK AREA - REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Notes:

1. Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of Appendix IX+3 constituents.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS (approved March 15, 2007 and re-submitted March 30, 2007).
3. NA - Not Analyzed.
4. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
5. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
6. Field duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, semivolatiles, pesticides, herbicides, dioxin/furans)

J - Indicates that the associated numerical value is an estimated concentration.
Q - Indicates the presence of quantitative interferences.
R - Data was rejected due to a deficiency in the data generation process.
X - Estimated maximum possible concentration.
Y - 2,3,7,8-TCDF results have been confirmed on a DB-225 column.

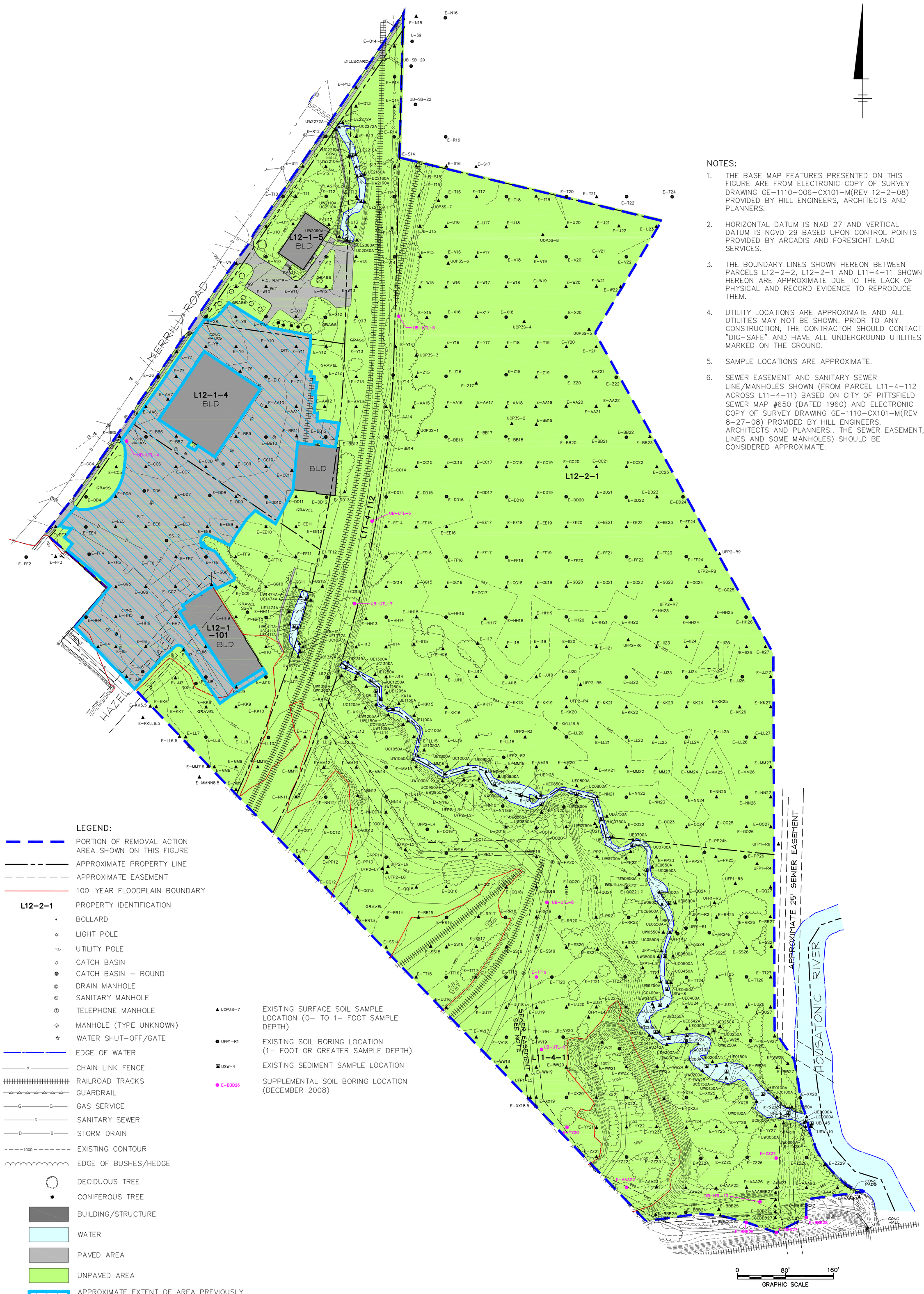
Inorganics

B - Indicates an estimated value between the instrument detection limit (IDL) and PQL.
J - Indicates that the associated numerical value is an estimated concentration.

Figure

CITY: SYRACUSE, NY DIV/GROUP: ENV/141 DB: DMW LAF LD: DMW PIC:(Opt) PM: A.CORBIN TM: T.LEEMHUIS LYR:(Opt)ON=*;OFF=*REF*, FRZN*
G:\GE\ENVCAD\SYRACUSE\ACT\NI\B0040190\0000\00029\DWG\RDRA\DEC08\40190G01.DWG LAYOUT: 1 SAVED: 3/16/2009 11:28 AM ACADVER: 17.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/16/2009 3:01 PM BY: WODARCZYK, DAVID

XREFS: IMAGES: PROJECTNAME: ----
40190X12
40190X00



NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE ARE FROM ELECTRONIC COPY OF SURVEY DRAWING GE-1110-006-CX101-M(REV 12-2-08) PROVIDED BY HILL ENGINEERS, ARCHITECTS AND PLANNERS.
2. HORIZONTAL DATUM IS NAD 27 AND VERTICAL DATUM IS NGVD 29 BASED UPON CONTROL POINTS PROVIDED BY ARCADIS AND FORESIGHT LAND SERVICES.
3. THE BOUNDARY LINES SHOWN HEREON BETWEEN PARCELS L12-2-2, L12-2-1 AND L11-4-11 SHOWN HEREON ARE APPROXIMATE DUE TO THE LACK OF PHYSICAL AND RECORD EVIDENCE TO REPRODUCE THEM.
4. UTILITY LOCATIONS ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHOULD CONTACT "DIG-SAFE" AND HAVE ALL UNDERGROUND UTILITIES MARKED ON THE GROUND.
5. SAMPLE LOCATIONS ARE APPROXIMATE.
6. SEWER EASEMENT AND SANITARY SEWER LINE/MANHOLES SHOWN (FROM PARCEL L11-4-112 ACROSS L11-4-11) BASED ON CITY OF PITTSFIELD SEWER MAP #650 (DATED 1960) AND ELECTRONIC COPY OF SURVEY DRAWING GE-1110-CX101-M(REV 8-27-08) PROVIDED BY HILL ENGINEERS, ARCHITECTS AND PLANNERS.. THE SEWER EASEMENT, LINES AND SOME MANHOLES) SHOULD BE CONSIDERED APPROXIMATE.

LEGEND:

- PORTION OF REMOVAL ACTION AREA SHOWN ON THIS FIGURE
- APPROXIMATE PROPERTY LINE
- APPROXIMATE EASEMENT
- 100-YEAR FLOODPLAIN BOUNDARY
- L12-2-1 PROPERTY IDENTIFICATION
- BOLLARD
- LIGHT POLE
- UTILITY POLE
- CATCH BASIN
- CATCH BASIN - ROUND
- DRAIN MANHOLE
- SANITARY MANHOLE
- TELEPHONE MANHOLE
- MANHOLE (TYPE UNKNOWN)
- WATER SHUT-OFF/GATE
- EDGE OF WATER
- CHAIN LINK FENCE
- RAILROAD TRACKS
- GUARDRAIL
- G GAS SERVICE
- S SANITARY SEWER
- D STORM DRAIN
- 1000 EXISTING CONTOUR
- EDGE OF BUSHES/HEDGE
- DECIDUOUS TREE
- CONIFEROUS TREE
- BUILDING/STRUCTURE
- WATER
- PAVED AREA
- UNPAVED AREA
- APPROXIMATE EXTENT OF AREA PREVIOUSLY TREATED AS PAVED THAT IS NOW TREATED AS UNPAVED

- ▲ U0P3S-7 EXISTING SURFACE SOIL SAMPLE LOCATION (0- TO 1- FOOT SAMPLE DEPTH)
- ● UFP1-R1 EXISTING SOIL BORING LOCATION (1- FOOT OR GREATER SAMPLE DEPTH)
- ▲ USW-4 EXISTING SEDIMENT SAMPLE LOCATION
- ● E-BBB26 SUPPLEMENTAL SOIL BORING LOCATION (DECEMBER 2008)

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

DECEMBER 2008 SUPPLEMENTAL INVESTIGATIONS DATA SUMMARY

DECEMBER 2008 SUPPLEMENTAL SOIL SAMPLE LOCATIONS

ARCADIS

FIGURE
1

Appendices

ARCADIS

Appendix A

Soil Boring Logs

ARCADIS

Soil Boring Logs – December 2008

Date Start/Finish: 12/19/08
Drilling Company: ARCADIS
Driller's Name: JTG
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-Mounted Power Probe
Sample Method: 4' Macrocore

Northing: 535307.5
Easting: 139554.1
Casing Elevation: NA

Borehole Depth: 19' below grade
Surface Elevation: 999.4

Descriptions By: GAR

Boring ID: RAA10-E-AAA22

Client: General Electric Company

Location: Unkamet Brook
Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
1000							
0	1	0-1	2.7	0.0		Gray-brown fine SAND with GRAVEL, some Silt.	Borehole backfilled with Bentonite.
	2	1-3		0.0			
	3	3-4		0.0		Gray-brown fine SAND with GRAVEL, some Wood.	
995	4	4-6	3.2	0.0			
5	5	6-8		0.0			
	6	8-10	3.4	0.0		Black CINDERS, fine SAND, SLAG, and GRAVEL.	
990	7	10-12		0.0			
10	8	12-14	3.6	0.0			
985	9	14-16		0.0		Gray fine SAND, moist.	
15							

ARCADIS
Infrastructure, environment, facilities

Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analysis: 1-3': PCBs; 3-6': PCBs; 6-15': PCBs; 15-19': PCBs.
The water table was present at ~16.0' bgs.

Date Start/Finish: 12/19/08
Drilling Company: ARCADIS
Driller's Name: JTG
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-Mounted Power Probe
Sample Method: 4' Macrocore

Northing: 535307.5
Easting: 139554.1
Casing Elevation: NA

Borehole Depth: 19' below grade
Surface Elevation: 999.4

Descriptions By: GAR

Boring ID: RAA10-E-AAA22

Client: General Electric Company

Location: Unkamet Brook
Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	10	16-18	2.7	0.0		Gray-brown fine to coarse SAND, wet.	Borehole backfilled with Bentonite.
	11	18-19		0.0			
980 / 20							
975 / 25							
970 / 30							
965 / 35							

ARCADIS
Infrastructure, environment, facilities

Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analysis: 1-3': PCBs; 3-6': PCBs; 6-15': PCBs; 15-19': PCBs.
The water table was present at ~16.0' bgs.

Date Start/Finish: 12/18/08
Drilling Company: ARCADIS
Driller's Name: JTG
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-Mounted Power Probe
Sample Method: 4' Macrocore

Northing: 535249.1
Easting: 139753.3
Casing Elevation: NA

Borehole Depth: 15' below grade
Surface Elevation: 994.4

Descriptions By: GAR

Boring ID: RAA10-E-BBB26

Client: General Electric Company

Location: Unkamet Brook
Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995 / 0							
	1	0-1		0.0		Dark brown to black CINDERS, SLAG, fine SAND, and GRAVEL.	Borehole backfilled with Bentonite.
	2	1-3	3.0	0.0		Dark brown fine SAND with GRAVEL, some Cinders and Slag.	
	3	3-4		0.0		Brown fine to medium SAND, some Gravel.	
990 / 5	4	4-6		0.0			
	5	6-8	2.8	0.0			
	6	8-10		0.0			
985 / 10	7	10-12	3.0	0.0		Black CINDERS, SLAG, fine SAND, and GRAVEL.	
	8	12-14	2.7	0.0		Black CINDERS, SLAG, fine SAND, and GRAVEL, some Silt, wet.	
980 / 15	9	14-15		0.0			

ARCADIS
Infrastructure, environment, facilities

Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analysis: 0-1': PCBs, VOCs, SVOCs, Inorganics; 1-3': PCBs; 3-6': PCBs; 6-15': PCBs, SVOCs, Inorganics, PCDDs/PCDFs, Pesticides/Herbicides; 10-12': VOCs.
Duplicate sample IDs: RAA10-UB-DUP-1 (PCBs, SVOCs, Inorganics, PCDDs/PCDFs, Pesticides/Herbicides, 6-15'); RAA10-UB-DUP-2 (VOCs, 10-12').
The water table was present at ~12.0' bgs.

Date Start/Finish: 12/18/08
Drilling Company: ARCADIS
Driller's Name: JTG
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-Mounted Power Probe
Sample Method: 4' Macrocore

Northing: 535257.2
Easting: 139853.1
Casing Elevation: NA

Borehole Depth: 15' below grade
Surface Elevation: 996.5

Descriptions By: GAR

Boring ID: RAA10-E-BBB28

Client: General Electric Company

Location: Unkamet Brook
Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 / 996	1	0-1	2.4	0.0		Dark brown to black CINDERS, SLAG, fine to medium SAND, and GRAVEL.	Borehole backfilled with Bentonite.
	2	1-3		0.0			
	3	3-4		0.0			
5 / 995	4	4-6	2.6	0.0			
	5	6-8		0.0			
10 / 990	6	8-10	2.8	0.0		Black CINDERS, SLAG, fine to medium SAND, and GRAVEL.	
	7	10-12		0.0			
15 / 985	8	12-14	3.0	0.0		Gray-brown tight SILT and fine SAND, moist.	
	9	14-15		0.0			

ARCADIS
Infrastructure, environment, facilities

Remarks: NA = Not Applicable/Available.
Analysis: 0-1': PCBs; 1-3': PCBs, VOCs, SVOCs, Inorganics, PCDDs/PCDFs, Pesticides/Herbicides; 3-6': PCBs; 6-15': PCBs, SVOCs, Inorganics; 12-14': VOCs. MS/MSD collected (PCBs, VOCs, SVOCs, Inorganics, PCDDs/PCDFs, Pesticides/Herbicides, 1-3').

Date Start/Finish: 12/18/08
Drilling Company: ARCADIS
Driller's Name: JTG
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-Mounted Power Probe
Sample Method: 4' Macrocore

Northing: 535232.0
Easting: 139803.6
Casing Elevation: NA

Borehole Depth: 15' below grade
Surface Elevation: 998.6

Descriptions By: GAR

Boring ID: RAA10-E-DDD27

Client: General Electric Company

Location: Unkamet Brook
Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
1000							
0	1	0-1	3.0	0.0		Black CINDERS, SLAG, fine to medium SAND, and GRAVEL.	Borehole backfilled with Bentonite.
	2	1-3		0.0		Dark brown fine to medium SAND, some Cinders and Slag.	
995	3	3-4		0.0		Black CINDERS, SLAG, fine SAND, and GRAVEL.	
5	4	4-6	3.5	0.0		Brown fine to medium SAND with GRAVEL.	
	5	6-8		0.0			
990	6	8-10	3.5	0.0			
10	7	10-12		0.0			
	8	12-14	3.0	0.0		Brown SILT, some fine Sand, moist.	
985	9	14-15		0.0			
15							

ARCADIS
Infrastructure, environment, facilities

Remarks: NA = Not Applicable/Available.
Analysis: 0-1': PCBs, VOCs, SVOCs, Inorganics, PCDDs/PCDFs, Pesticides/Herbicides; 1-3': PCBs; 3-6': PCBs, SVOCs, Inorganics; 4-6': VOCs; 6-15': PCBs.

Date Start/Finish: 12/22/08
Drilling Company: ARCADIS
Driller's Name: JTG
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-Mounted Power Probe
Sample Method: 4' Macrocore

Northing: 535657.6
Easting: 139404.0
Casing Elevation: NA

Borehole Depth: 15' below grade
Surface Elevation: 992.0

Descriptions By: GAR

Boring ID: RAA10-E-TT19

Client: General Electric Company

Location: Unkamet Brook
Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 / 992	1	0-1	3.5	0.0		Brown SILT.
	2	1-3		0.0		Brown fine SAND and SILT.
	3	3-4		0.0		
5 / 985	4	4-6	3.8	0.0		Gray-brown fine SAND, some Gravel.
	5	6-8		0.0		
	6	8-10	3.1	0.0		Brown fine to coarse SAND with GRAVEL.
10 / 980	7	10-12		0.0		
	8	12-14	2.8	0.0		Gray-brown fine to coarse SAND with GRAVEL, wet.
15	9	14-15		0.0		

Boring Construction: Borehole backfilled with Bentonite.

ARCADIS
Infrastructure, environment, facilities

Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analysis: 1-3': PCBs; 3-6': PCBs; 6-15': PCBs.
The water table was present at ~12.0' bgs.

Project: 401.90.029
Data File: RAA10-E-TT19.dat
Template: V :\ GE_Pittsfield_CD_Unkamet_Brook\Notes and Data\Logs\Unkamet2008.ldfx
Date: 1/6/09

Date Start/Finish: 12/22/08
Drilling Company: ARCADIS
Driller's Name: JTG
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-Mounted Power Probe
Sample Method: 4' Macrocore

Northing: 535407.4
Easting: 139455.0
Casing Elevation: NA

Borehole Depth: 15' below grade
Surface Elevation: 995.1

Descriptions By: GAR

Boring ID: RAA10-E-YY20

Client: General Electric Company

Location: Unkamet Brook
Pittsfield, Massachusetts

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	995	1	0-1	2.5	0.0		Dark brown SILT.	Borehole backfilled with Bentonite.
		2	1-3		0.0		Gray-brown fine SAND, some Silt and Gravel.	
		3	3-4		0.0			
5	990	4	4-6	3.0	0.0			
		5	6-8		0.0		Black fine SAND, CINDERS, SLAG, GRAVEL, BRICK, and CEMENT.	
		6	8-10	2.0	0.0			
10	985	7	10-12		0.0			
		8	12-14	2.5	0.0			
		9	14-15		0.0		Brown fine to coarse SAND, wet.	
15	980							

ARCADIS
Infrastructure, environment, facilities

Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analysis: 1-3': PCBs; 3-6': PCBs; 6-15': PCBs.
The water table was present at ~14.0' bgs.

Date Start/Finish: 12/19/08
Drilling Company: ARCADIS
Driller's Name: JTG
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-Mounted Power Probe
Sample Method: 4' Macrocore

Northing: 535356.1
Easting: 139803.1
Casing Elevation: NA

Borehole Depth: 15' below grade
Surface Elevation: 983.9

Descriptions By: GAR

Boring ID: RAA10-E-ZZ27

Client: General Electric Company

Location: Unkamet Brook
Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
985							
0	1	0-1	2.4	0.0		Gray-brown SILT with fine to coarse SAND, some Gravel.	Borehole backfilled with Bentonite.
	2	1-3		0.0			
	3	3-4		0.0		Dark gray-brown SILT, little fine Sand.	
980	4	4-6		0.0			
5	5	6-8	3.6	0.0		Gray-brown fine to coarse SAND, wet.	
975	6	8-10		0.0			
10	7	10-12	3.6	0.0			
	8	12-14	2.8	0.0			
970	9	14-15		0.0			
15							

ARCADIS
Infrastructure, environment, facilities

Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analysis: 1-3': PCBs; 3-6': PCBs; 6-15': PCBs.
The water table is present at ~6.0' bgs.

Date Start/Finish: 12/23/08
Drilling Company: ARCADIS
Driller's Name: JTG
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-Mounted Power Probe
Sample Method: 4' Macrocore

Northing: 536550.1
Easting: 138721.8
Casing Elevation: NA

Borehole Depth: 10' below grade
Surface Elevation: 992.3

Descriptions By: GAR

Boring ID: UB-UTL-4

Client: General Electric Company

Location: Unkamet Brook
Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995							
0	1	0-1	3.3	0.0		Dark brown fine SAND.	Borehole backfilled with Bentonite.
	2	1-3		0.0		Brown fine SAND and GRAVEL	
990	3	3-4		0.0			
	4	4-6	3.9	0.0		Gray fine SAND, wet.	
5	5	6-8		0.0			
985	6	8-10	1.4	0.0		Gray fine SAND with CLAY, wet.	
10							
980							
15							

ARCADIS
Infrastructure, environment, facilities

Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analysis: 1-3': PCBs; 3-6': PCBs; 6-10': PCBs.
The water table was present at ~4.0' bgs.

Date Start/Finish: 12/23/08
Drilling Company: ARCADIS
Driller's Name: JTG
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-Mounted Power Probe
Sample Method: 4' Macrocore

Northing: 536758.0
Easting: 139174.9
Casing Elevation: NA

Borehole Depth: 12' below grade
Surface Elevation: 989.5

Descriptions By: GAR

Boring ID: UB-UTL-5

Client: General Electric Company

Location: Unkamet Brook
Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
990							
0	1	0-1	2.0	0.0		Dark brown SILT, some fine Sand, Gravel, and Organic Material.	Borehole backfilled with Bentonite.
	2	1-3		0.0		Brown fine SAND with GRAVEL and ROCK.	
	3	3-4		0.0			
985	4	4-6	2.5	0.0		Brown fine SAND with GRAVEL, very moist.	
5	5	6-8		0.0			
	6	8-10	3.6	0.0		Dark brown SILT, wet.	
980						Gray fine SAND, wet.	
10	7	10-12		0.0		Dark brown SILT, wet.	
975							
15							

ARCADIS
Infrastructure, environment, facilities

Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analysis: 1-3': PCBs; 3-6': PCBs; 6-12': PCBs.
The water table was present at ~8.0' bgs.

Date Start/Finish: 12/23/08
Drilling Company: ARCADIS
Driller's Name: JTG
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-Mounted Power Probe
Sample Method: 4' Macrocore

Northing: 536416.8
Easting: 139130.3
Casing Elevation: NA

Borehole Depth: 12' below grade
Surface Elevation: 991.8

Descriptions By: GAR

Boring ID: UB-UTL-6

Client: General Electric Company

Location: Unkamet Brook
Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	1	0-1	3.4	0.0		Brown SILT, some fine Sand, Gravel, and Organic Material.	Borehole backfilled with Bentonite.
990	2	1-3		0.0		Dark brown fine SAND with SILT, some Slag and Gravel.	
	3	3-4		0.0			
5	4	4-6		0.0			
985	5	6-8	3.1	0.0		Gray-brown fine SAND with GRAVEL.	
	6	8-10		0.0		Gray fine SAND, very moist.	
10	7	10-12	3.5	0.0		Gray fine SAND, wet.	
980							
15							

ARCADIS
Infrastructure, environment, facilities

Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analysis: 0-1': PCBs; 1-3': PCBs; 3-6': PCBs; 6-12': PCBs.
The water table was present at ~10.0' bgs.

Date Start/Finish: 12/22/08
Drilling Company: ARCADIS
Driller's Name: JTG
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-Mounted Power Probe
Sample Method: 4' Macrocore

Northing: 536279.4
Easting: 139101.2
Casing Elevation: NA

Borehole Depth: 12' below grade
Surface Elevation: 992.3

Descriptions By: GAR

Boring ID: UB-UTL-7

Client: General Electric Company

Location: Unkamet Brook
Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995							
0	1	0-1	3.2	0.0		Dark brown to black fine SAND with SILT, some Cinders, Slag, and Gravel.	Borehole backfilled with Bentonite.
	2	1-3		0.0			
990	3	3-4		0.0		Dark brown to black fine SAND, CINDERS, SLAG, and GRAVEL.	
5	4	4-6		0.0			
	5	6-8	3.2	0.0		Gray fine SAND and GRAVEL.	
985	6	8-10		0.0		Gray-brown fine to coarse SAND, wet.	
10	7	10-12	3.2	0.0			
980							
15							

ARCADIS
Infrastructure, environment, facilities

Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analysis: 1-3': PCBs; 3-6': PCBs; 6-12': PCBs.
Duplicate sample ID: RAA10-UB-DUP-4 (PCBs, 3-6').
MS/MSD collected (PCBs: 6-12').
The water table was present at ~8.0' bgs.

Date Start/Finish: 12/22/08
Drilling Company: ARCADIS
Driller's Name: JTG
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-Mounted Power Probe
Sample Method: 4' Macrocore

Northing: 535782.0
Easting: 139421.4
Casing Elevation: NA

Borehole Depth: 15' below grade
Surface Elevation: 991.1

Descriptions By: GAR

Boring ID: UB-UTL-8

Client: General Electric Company

Location: Unkamet Brook
Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 / 990	1	0-1	3.0	0.0		Dark brown to black CINDERS, fine SAND, SLAG, and SILT.	Borehole backfilled with Bentonite.
	2	1-3		0.0		Black CINDERS, ASH, SLAG, fine SAND and GRAVEL.	
	3	3-4		0.0			
5 / 985	4	4-6	3.3	0.0		Brown SILT, some fine Sand.	
	5	6-8		0.0		Gray fine to coarse SAND with GRAVEL.	
10 / 980	6	8-10	3.6	0.0		Gray fine SAND.	
	7	10-12		0.0			
	8	12-14	3.0	0.0		Gray-brown fine to coarse SAND, wet.	
15	9	14-15		0.0			

ARCADIS
Infrastructure, environment, facilities

Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analysis: 1-3': PCBs; 3-6': PCBs; 6-15': PCBs.
The water table was present at ~12.0' bgs.

Date Start/Finish: 12/22/08
Drilling Company: ARCADIS
Driller's Name: JTG
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-Mounted Power Probe
Sample Method: 4' Macrocore

Northing: 535537.0
Easting: 139412.4
Casing Elevation: NA

Borehole Depth: 15' below grade
Surface Elevation: 995.3

Descriptions By: GAR

Boring ID: UB-UTL-9

Client: General Electric Company

Location: Unkamet Brook
Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 / 995	1	0-1	3.8	0.0		Brown SILT.
	2	1-3		0.0		Gray-brown fine SAND with Gravel, some Silt.
	3	3-4		0.0		
5 / 990	4	4-6	3.8	0.0		Black fine SAND, SLAG, CINDERS, and GRAVEL.
	5	6-8		0.0		Brown fine SAND.
	6	8-10	3.6	0.0		Gray fine SAND.
10 / 985	7	10-12		0.0		Gray-brown fine to coarse SAND.
	8	12-14	2.3	0.0		Gray-brown fine to coarse SAND, wet.
	9	14-15		0.0		
15 / 980						

Boring Construction: Borehole backfilled with Bentonite.

ARCADIS
Infrastructure, environment, facilities

Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analysis: 1-3': PCBs; 3-6': PCBs; 6-15': PCBs.
The water table was present at ~12.0' bgs.

Project: 401.90.029
Data File: UB-UTL-9.dat
Template: V :\ GE_Pittsfield_CD_Unkamet_Brook\Notes and Data\Logs\Unkamet2008.ldfx
Date: 1/6/09

Date Start/Finish: 12/19/08
Drilling Company: ARCADIS
Driller's Name: JTG
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-Mounted Power Probe
Sample Method: 4' Macrocore

Northing: 535283.3
Easting: 139776.3
Casing Elevation: NA

Borehole Depth: 15' below grade
Surface Elevation: 984.9

Descriptions By: GAR

Boring ID: UB-UTL-10

Client: General Electric Company

Location: Unkamet Brook
Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 / 985	1	0-1	3.5	0.0		Brown SILT and gray fine SAND, some Gravel.
	2	1-3		0.0		Dark brown to black fine SAND, CINDERS, and GRAVEL.
	3	3-4		0.0		
5 / 980	4	4-6	3.9	0.0		Black fine to medium SAND, CINDERS, SLAG, GRAVEL, and WOOD, wet.
	5	6-8		0.0		Dark gray-brown SILT, little fine Sand, wet.
	6	8-10	3.2	0.0		Gray-brown fine to coarse SAND, wet.
10 / 975	7	10-12		0.0		
	8	12-14	3.0	0.0		
15 / 970	9	14-15		0.0		

Boring Construction: Borehole backfilled with Bentonite.

ARCADIS
Infrastructure, environment, facilities

Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analysis: 1-3': PCBs; 3-6': PCBs; 6-15': PCBs.
Duplicate sample ID: RAA10-UB-DUP-3 (PCBs, 1-3').
MS/MSD collected (PCBs, 6-15').
The water table was present at ~4.0' bgs.

ARCADIS

Soil Boring Logs – October 2007

Date Start/Finish: 10/23/07
Drilling Company: ARCADIS
Driller's Name: GAR
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Hand-Driven Macrocore
Sample Method: 2' Macrocore

Northing: 535276.2
Easting: 139801.6
Casing Elevation: NA

Borehole Depth: 1' below grade
Surface Elevation: 987.7

Descriptions By: GAR

Boring ID: RAA10-E-BBBCCC27

Client: General Electric Company

Location: Unkamet Brook
Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
990							
0	1	0-1	0.9	0.0		Dark brown fine SAND with CINDERS, SLAG, and GRAVEL, some Organic Material.	Borehole backfilled with Bentonite.
985							
5							
980							
10							
975							
15							

ARCADIS
Infrastructure, environment, facilities

Remarks: NA = Not Applicable/Available.
Analysis: 0-1': PCBs.

Project: 401.90.029 Template: V :\ GE_Pittsfield_CD_Unkamet_Brook\Notes and Data\Logs\Unkamet2008.ldfx
Data File: RAA10-E-BBBCCC27.dat Date: 11/13/08

Date Start/Finish: 10/23/07
Drilling Company: ARCADIS
Driller's Name: GAR
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Hand-Driven Macrocore
Sample Method: 2' Macrocore

Northing: 535266.4
Easting: 139801.6
Casing Elevation: NA

Borehole Depth: 1' below grade
Surface Elevation: 992

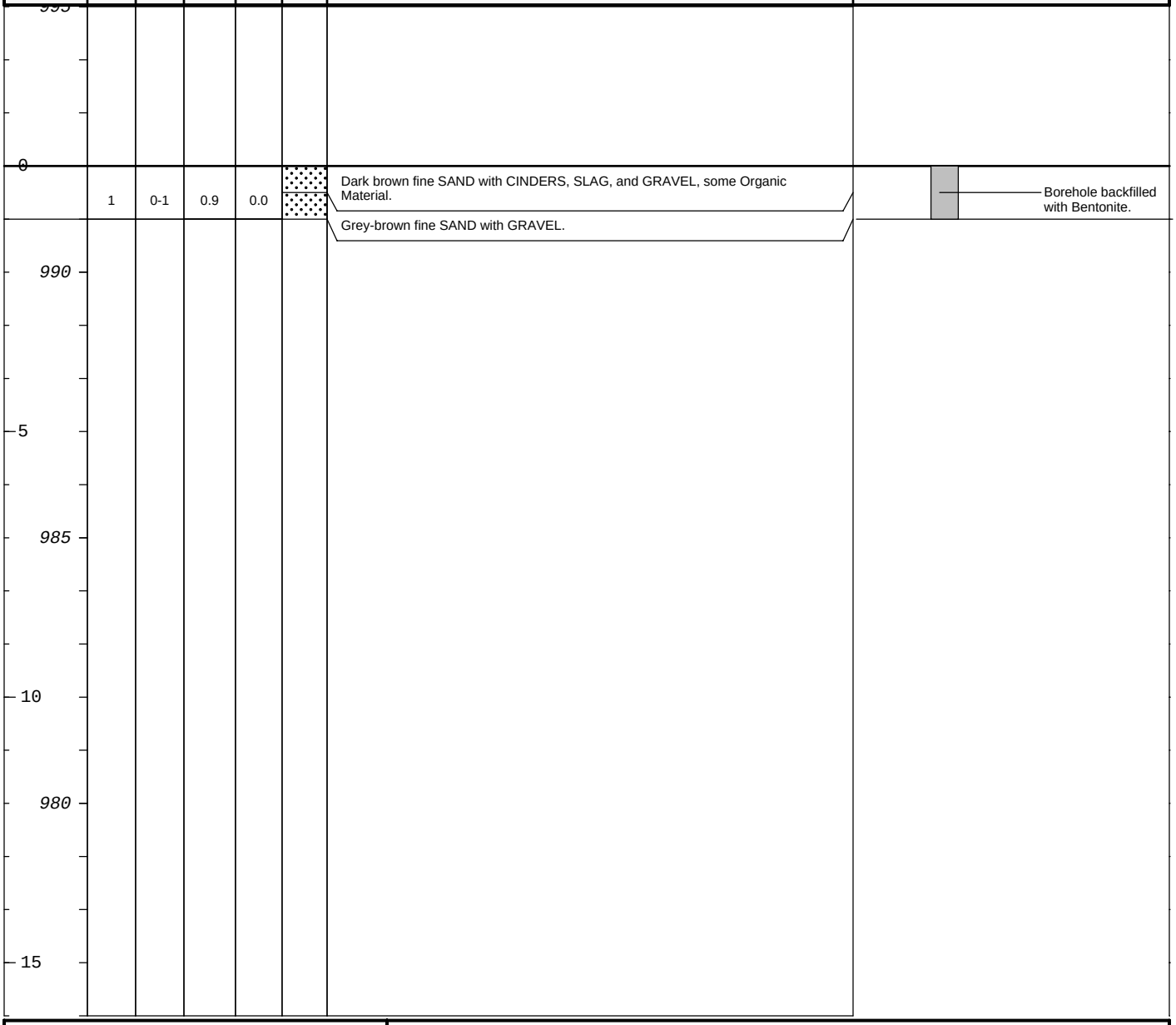
Descriptions By: GAR

Boring ID: RAA10-E-CCC27

Client: General Electric Company

Location: Unkamet Brook
Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 / 992	1	0-1	0.9	0.0		Dark brown fine SAND with CINDERS, SLAG, and GRAVEL, some Organic Material.	Borehole backfilled with Bentonite.
						Grey-brown fine SAND with GRAVEL.	



ARCADIS
Infrastructure, environment, facilities

Remarks: NA = Not Applicable/Available.
Analysis: 0-1': PCBs.

Project: 401.90.029
Data File: RAA10-E-CCC27.dat
Template: V :\ GE_Pittsfield_CD_Unkamet_Brook\Notes and Data\Logs\Unkamet2008.ldfx
Date: 11/13/08

Date Start/Finish: 10/23/07
Drilling Company: ARCADIS
Driller's Name: GAR
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Hand-Driven Macrocore
Sample Method: 2' Macrocore

Northing: 535256.3
Easting: 139801.7
Casing Elevation: NA

Borehole Depth: 1' below grade
Surface Elevation: 994.5

Descriptions By: GAR

Boring ID: RAA10-E-CCCDDD27

Client: General Electric Company

Location: Unkamet Brook
Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995 / 0	1	0-1	0.9	0.0		Dark brown fine SAND with CINDERS, SLAG, and GRAVEL, some Organic Material.	Borehole backfilled with Bentonite.
						Grey-brown fine SAND with GRAVEL.	
990 / 5							
985 / 10							
980 / 15							

ARCADIS
Infrastructure, environment, facilities

Remarks: NA = Not Applicable/Available.
Analysis: 0-1': PCBs.

Project: 401.90.029 Template: V :\ GE_Pittsfield_CD_Unkamet_Brook\Notes and Data\Logs\Unkamet2008.ldfx
Data File: RAA10-E-CCCDDD27.dat Date: 11/13/08

ARCADIS

Soil Boring Logs – August 2007

Date Start/Finish: 8/30/07
Drilling Company: ARCADIS
Driller's Name: TOR
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Hand-Driven Macrocore
Sample Method: 2' Macrocore

Northing: 535286.5
Easting: 139802.4
Casing Elevation: NA

Borehole Depth: 1' below grade
Surface Elevation: 984.4

Descriptions By: GAR

Boring ID: RAA10-E-BBB27

Client: General Electric Company

Location: Unkamet Brook
Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
985 / 0	1	0-1	1.0	0.0		Light grey-brown fine SAND, trace Gravel and Roots.	Borehole backfilled with Bentonite.
						Dark grey-brown fine SAND with SLAG.	
980 / 5							
975 / 10							
970 / 15							

ARCADIS
Infrastructure, environment, facilities

Remarks: NA = Not Applicable/Available.
Analysis: 0-1': PCBs.
Duplicate Sample ID: RAA10-E-DUP-004 (PCBs, 0-1').

Date Start/Finish: 8/30/07
Drilling Company: ARCADIS
Driller's Name: TOR
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Hand-Driven Macrocore
Sample Method: 2' Macrocore

Northing: 536089.1
Easting: 138748.9
Casing Elevation: NA

Borehole Depth: 1' below grade
Surface Elevation: 1000.2

Descriptions By: GAR

Boring ID: RAA10-E-KKLL6.5

Client: General Electric Company

Location: Unkamet Brook
Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 / 1000	1	0-1	1.0	0.0		Light brown-grey fine SAND, trace fine to medium Gravel.	Borehole backfilled with Bentonite.
5 / 995							
10 / 990							
15 / 985							

ARCADIS
Infrastructure, environment, facilities

Remarks: NA = Not Applicable/Available.
Analysis: 0-1': PCBs.
MS/MSD collected (PCBs, 0-1').

Date Start/Finish: 8/30/07
Drilling Company: ARCADIS
Driller's Name: TOR
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Hand-Driven Macrocore
Sample Method: 2' Macrocore

Northing: 535990.3
Easting: 138843
Casing Elevation: NA

Borehole Depth: 1' below grade
Surface Elevation: 999

Descriptions By: GAR

Boring ID: RAA10-E-MMNN8.5

Client: General Electric Company

Location: Unkamet Brook
Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
1000 / 0	1	0-1	1.0	0.0		Light grey-brown fine SAND with fine to medium GRAVEL.	Borehole backfilled with Bentonite.
995 / 5							
990 / 10							
985 / 15							

ARCADIS
Infrastructure, environment, facilities

Remarks: NA = Not Applicable/Available.
Analysis: 0-1': PCBs.

ARCADIS

Appendix B

Data Validation Report

Appendix B
Data Validation Report – December 2008 Supplemental Investigations Data Summary
Unkamet Brook Area – Remainder

General Electric Company
Pittsfield, Massachusetts

1.0 General

This appendix summarizes the Tier I and II data review performed for soil samples collected in December 2008 as part of additional supplemental soil investigations conducted at Unkamet Brook Area - Remainder, located within the General Electric Company/Housatonic River Site in Pittsfield, Massachusetts. The samples were analyzed for polychlorinated biphenyls (PCBs) and/or various other constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents -- benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine (hereafter referred to as Appendix IX+3) by SGS Environmental Services, Inc. of Wilmington, North Carolina. Data validation was performed for 51 PCB samples, seven volatile organic compound (VOC) samples, seven semi-volatile organic compound (SVOC) samples, seven metal samples, four pesticide samples, four herbicide samples, seven cyanide samples, seven sulfide samples, and four polychlorinated dibenzo-p-dioxin (PCDD)/polychlorinated dibenzofuran (PCDF) samples.

2.0 Data Evaluation Procedures

This appendix outlines the applicable quality control criteria utilized during the data review process and any deviations from those criteria. The data review was conducted in accordance with the following documents:

- *Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts,* ARCADIS BBL (as submitted by GE on March 30, 2007 following approval by EPA on March 15, 2007)*;*

- *Region I Tiered Organic and Inorganic Data Validation Guidelines*, USEPA Region I (EPA guidelines; July 1, 1993);

- *Region I Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses,* USEPA Region I (June 13, 1988) (Modified February 1989);

- *Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*, USEPA Region I (Draft, December 1996); and

- *National Functional Guidelines for Dioxin/Furan Data Validation,* USEPA (Draft, January 1996).

The data were validated to either a Tier I or Tier II level, as described below. Any deviations from the applicable quality control criteria utilized during the data review process are identified below. A tabulated summary of the Tier I/Tier II data review is presented in Table B-1. Each sample subject to evaluation is listed in Table B-1 to document that data review was performed. Samples that required data qualification are listed separately.

The following data qualifiers were used in this data evaluation:

J The compound was positively identified, but the associated numerical value is an estimated concentration. This qualifier is used when the data evaluation procedure identifies a deficiency in the data generation process. This qualifier is also used when a compound is detected at an estimated concentration less than the corresponding practical quantitation limit (PQL).

U The compound was analyzed for, but was not detected. The sample quantitation limit is presented. Non-detect sample results are presented as ND(PQL) within this report for consistency with documents previously prepared for investigations conducted at the GE-Pittsfield/Housatonic River Site.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is estimated and may or may not represent the actual level of quantitation. Non-detect sample results that required qualification are presented as ND(PQL) J within this report for consistency with documents previously prepared for investigations conducted at the GE-Pittsfield/Housatonic River Site.

R Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data should not be used for any qualitative or quantitative purpose.

3.0 Data Validation Procedures

Section 7.5 of the FSP/QAPP states that analytical data will be validated to a Tier I level following the procedures presented in the EPA guidelines. The Tier I review consisted of a completeness evidence audit, as outlined in the *EPA Region I CSF Completeness Evidence Audit Program* (EPA Region I, July 31, 1991), to ensure that laboratory data and documentation were present. In the event data packages were determined to be incomplete, the missing information was requested from the laboratory. Upon completion of the Tier I review, the data packages complied with the EPA Region I Tier I data completeness requirements.

The Tier II data review consisted of a review of data package summary forms for identification of quality assurance/quality control (QA/QC) deviations and qualification of the data according to the Region I Data Validation Functional Guidelines. Additionally, field duplicates were examined for relative percent difference (RPD) compliance with the criteria specified in the FSP/QAPP.

A tabulated summary of the samples subject to Tier I and Tier II data review is presented in the following table.

Summary of Samples Subjected to Tier I and Tier II Data Validation

Parameter	Tier I Only			Tier I &Tier II			Total
	Samples	Duplicates	Blanks	Samples	Duplicates	Blanks	
PCBs	10	1	0	37	2	1	51
VOCs	0	0	0	6	1	0	7
SVOCs	0	0	0	6	1	0	7
Pesticides	0	0	0	3	1	0	4
Herbicides	0	0	0	3	1	0	4
Metals	0	0	0	6	1	0	7

Summary of Samples Subjected to Tier I and Tier II Data Validation

Parameter	Tier I Only			Tier I &Tier II			Total
	Samples	Duplicates	Blanks	Samples	Duplicates	Blanks	
PCDDs/PCDFs	0	0	0	3	1	0	4
Sulfides	0	0	0	6	1	0	7
Cyanides	0	0	0	6	1	0	7
Total	**10**	**1**	**0**	**76**	**10**	**1**	**98**

Two of the three laboratory sample delivery group packages obtained in December 2008 (approximately 66% of the data) was randomly chosen to be subjected to Tier II review.

When qualification of the sample data was required, the sample results associated with a QA/QC parameter deviation were qualified in accordance with the procedures outlined in EPA Region I data validation guidance documents. When the data validation process identified several quality control deficiencies, the cumulative effect of the various deficiencies was employed in assigning the final data qualifier. A summary of the QA/QC parameter deviations that resulted in data qualification is presented in Section 4 below.

4.0 Summary of QA/QC Parameter Deviations Requiring Data Qualification

This section provides a summary of the deviations from the applicable QA/QC criteria that resulted in qualification of results.

The initial calibration criterion for organic analyses requires that the average relative response factor (RRF) has a value greater than 0.05. Sample results were qualified as estimated (J) when this criterion was not achieved. The compounds that did not achieve the initial calibration criterion and the number of samples qualified are presented in the following table.

Compounds Qualified Due to Initial Calibration Deviations (RRF)

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,4-Dioxane	7	J
	2-Chloroethylvinylether	6	J
	Acetonitrile	7	J
	Acrolein	7	J
	Propionitrile	7	J
SVOCs	Hexachlorophene	7	J

Several of the organic compounds (including the compounds presented in the above tables detailing RRF deviations) exhibit instrument response factors (RFs) below the USEPA Region I minimum value of 0.05, but meet the analytical method criterion, which does not specify minimum RFs for these compounds. These compounds were analyzed by the laboratory at a higher concentration than the compounds that normally exhibit RFs greater than the USEPA Region I minimum value of 0.05 in an effort to demonstrate acceptable response. USEPA Region I guidelines state that non-detect compound results associated with a RF less than the minimum value of 0.05 are to be rejected (R). However, in the case of these select organic compounds, the RF is an inherent problem with the current analytical methodology; therefore, the non-detect sample results were qualified as estimated (J).

The continuing calibration criterion requires that the percent difference (%D) between the initial calibration RRF and the continuing calibration RRF for VOCs and SVOCs be less than 25%. Sample data for detect and non-detect compounds with %D values that exceeded the continuing calibration criteria were qualified as estimated (J). A summary of the compounds that exceeded the continuing calibration criterion and the number of samples qualified due to those deviations are presented in the following table.

Compounds Qualified Due to Continuing Calibration of %D Values

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,4-Dioxane	4	J
	2-Butanone	4	J
	2-Chloroethylvinylether	2	J
	3-Chloropropene	4	J
	Acetone	4	J
	Acetonitrile	4	J
	Bromomethane	3	J
	Carbon Disulfide	4	J
	Chloroethane	7	J
	Isobutanol	4	J
SVOCs	4-Chloroaniline	6	J
	Phorate	1	J
Herbicides	Dinoseb	4	J

Contract required detection limit (CRDL) standards were analyzed to evaluate instrument performance at low-level concentrations that are near the analytical method PQL. These standards are required to have recoveries between 80% and 120% to verify that the analytical instrumentation was properly calibrated. When CRDL standard recoveries were outside these control limits, the affected samples with detected results at or near the PQL concentration (i.e., less than three times the PQL) were qualified as estimated (J). The analytes that did not meet CRDL criteria and the number of samples qualified due to those deviations are presented in the following table.

Analytes Qualified Due to CRDL Standard Recovery Deviations

Analysis	Analyte	Number of Affected Samples	Qualification
Inorganics	Copper	6	J
	Nickel	3	J
	Selenium	2	J
	Thallium	6	J
	Tin	7	J

Matrix spike/matrix spike duplicate (MS/MSD) sample analysis recovery criteria for organics require that the MS/MSD recovery be within the laboratory-generated QC acceptance limits specified on the MS/MSD reporting form and inorganics MS/MSD recoveries must be within 75% to 125%. Organic and inorganic sample results associated with MS/MSD recoveries less than the specified control limit, but greater than 10% and 30%, respectively, were qualified as estimated (J) and sample results associated with MS/MSD recoveries less than 10% and 30%, respectively, were qualified as rejected (R). The compounds/analytes that did not meet MS/MSD recovery criteria and the number of samples qualified due to those deviations are presented in the following table.

Compounds/Analytes Qualified Due to MS/MSD Recovery Deviations

Analysis	Compound/Analyte	Number of Affected Samples	Qualification
VOCs	1,2-Dibromoethane	1	J
	2-Chloroethylvinylether	1	R
	Chlorobenzene	1	J
	cis-1,3-Dichloropropene	1	J
	Dibromochloromethane	1	J
	Dibromomethane	1	J
	Ethylbenzene	1	J
	Methylene Chloride	1	J
	Styrene	1	J
	Toluene	1	J
	trans-1,2-Dichloroethene	1	J
	Trichloroethene	1	J
	Xylenes (total)	1	J
	2-Hexanone	1	J
	Bromodichloromethane	1	J
	Bromoform	1	J
	Tetrachloroethene	1	J
SVOCs	3&4-Methylphenol	1	J
	2,4-Dimethylphenol	1	J
	4-Nitrophenol	1	J
	3,3'-Dichlorobenzidine	1	J
	2-Nitroaniline	1	J

Compounds/Analytes Qualified Due to MS/MSD Recovery Deviations

Analysis	Compound/Analyte	Number of Affected Samples	Qualification
Herbicides	2,4-D	1	J
	Dinoseb	1	J
Inorganics	Antimony	7	J
	Thallium	7	J
Miscellaneous	Sulfide	1	J

MS/MSD sample analysis recovery criteria for organics require that the RPD between the MS and MSD recoveries be less than the laboratory-generated QC acceptance limits specified on the MS/MSD reporting form. The compounds that exceeded the RPD limit and the number of samples qualified due to deviations are presented in the following table.

Compounds Qualified Due to MS/MSD RPD Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	2-Hexanone	1	J
	Bromomethane	1	J

Blank action levels for compounds/analytes detected in the blanks were calculated at five times the blank concentrations. Detected sample results that were below the blank action level were qualified with a "U." The analyte detected in method/analytical blanks which resulted in qualification of sample data, along with the number of affected samples, are presented in the following table.

Analyte Qualified Due to Blank Deviations

Analysis	Analyte	Number of Affected Samples	Qualification
Inorganics	Tin	3	U

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) sample analysis recovery criteria for organics require that the LCS/LCSD recovery be within the laboratory-generated QC acceptance limits specified on the LCS/LCSD reporting form. Organic sample results associated with LCS/LCSD recoveries less than the specified control limit but greater than 10% were qualified as estimated (J). The compounds that did not meet LCS/LCSD recovery criteria and the number of samples qualified due to those deviations are presented in the following table.

Compounds Qualified Due to LCS/LCSD Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification
Herbicides	Dinoseb	2	J
SVOCs	4-Nitrophenol	7	J
	Isophorone	7	J

LCS/LCSD sample analysis recovery criteria for organics require that the RPD between the LCS and LCSD recoveries be less than the laboratory-generated QC acceptance limits specified on the LCS/LCSD reporting form. The compounds that exceeded the RPD limit and the number of samples qualified due to deviations are presented in the following table.

Compounds Qualified Due to LCS/LCSD RPD Deviations

Analysis	Compound	Number of Affected Samples	Qualification
PCBs	All Aroclors	1	J
VOCs	Carbon Disulfide	4	J
	Chloroethane	3	J

Surrogate compounds are analyzed with every organic sample to aid in evaluation of the sample extraction efficiency. As specified in the FSP/QAPP, one of the two pesticide surrogate compounds must be within the laboratory-specified control limits. Sample results were qualified as estimated (J) for all compounds when surrogate recovery criteria were outside control limits and were greater than 10%. Non-detect sample results less than 10% were qualified as rejected (R). A summary of the compounds affected by surrogate recovery exceedances and the number of samples qualified due to those deviations are presented in the following table.

Compounds Qualified Due to Surrogate Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification
Pesticides	4,4'-DDD	2	J
		1	R
	4,4'-DDE	3	R
	4,4'-DDT	3	R
	Aldrin	3	R
	Alpha-BHC	3	R
	Alpha-Chlordane	3	R
	Beta-BHC	3	R
	Delta-BHC	3	R
	Dieldrin	2	J
		1	R
	Endosulfan I	3	R
	Endosulfan II	3	R
	Endosulfan Sulfate	3	R
	Endrin	2	J
		1	R
	Endrin Aldehyde	1	J
		2	R
	Endrin Ketone	3	R
	Gamma-BHC (Lindane)	3	R
	Gamma-Chlordane	2	J
		1	R

Analysis	Compound	Number of Affected Samples	Qualification
Pesticides (continued)	Heptachlor	3	R
	Heptachlor Epoxide	2	J
		1	R
	Methoxychlor	3	R
	Technical Chlordane	3	R
	Toxaphene	3	R

Field duplicate samples were analyzed to evaluate the overall precision of laboratory and field procedures. The RPD between field duplicate samples is required to be less than 50% for soil sample values greater than five times the PQL for inorganics. Sample results that exceeded these limits were qualified as estimated (J). The analyte that did not meet field duplicate RPD requirements and the number of samples qualified due to those deviations are presented in the following table.

Analyte Qualified Due to Field Duplicate Deviations

Analysis	Analyte	Number of Affected Samples	Qualification
Inorganics	Zinc	7	J

Dual column analysis is performed to confirm compound detections on two dissimilar analytical columns. The RPD between sample values of the two columns is required to be less than 40% for soil sample values greater than the PQL. Sample results that exceeded these limits were qualified as estimated (J). The compounds that did not meet dual column RPD requirements and the number of samples qualified due to those deviations are presented in the following table.

Compounds Qualified Due to Dual Column RPD Deviations

Analysis	Compound	Number of Affected Samples	Qualification
Pesticides	4,4'-DDT	3	J
	Dieldrin	1	J
	Endrin Ketone	2	J
	Methoxychlor	1	J
	Dinoseb	2	J

According to the laboratory narrative, during PCDD/PCDF analysis, the presence of qualitative interference could cause a false positive or an overestimation of the affected analytes. The PCDD/PCDF compounds that exhibited qualitative interference contamination are presented in the following table.

Compounds Qualified Due to Qualitative Interference Contamination Deviations

Analysis	Compound	Number of Affected Samples	Qualification
PCDDs/PCDFs	1,2,3,4,6,7,8-HpCDF	1	J
	1,2,3,6,7,8-HxCDF	1	J
	1,2,3,7,8-PeCDD	1	J
	1,2,3,7,8-PeCDF	2	J
	2,3,4,7,8-PeCDF	2	J
	2,3,7,8-TCDD	2	J
	2,3,7,8-TCDF	2	J
	HpCDFs (total)	1	J
	HxCDDs (total)	2	J
	HxCDFs (total)	2	J
	PeCDDs (total)	4	J
	PeCDFs (total)	4	J
	TCDDs (total)	2	J
	TCDFs (total)	2	J

5.0 Overall Data Usability

This section summarizes the analytical data in terms of its completeness and usability. Data completeness is defined as the percentage of sample results that have been determined to be usable during the data validation process. The percent usability calculation included analyses evaluated under both the Tier I/II data validation reviews. The percent usability calculation also includes quality control samples (i.e., field/equipment blanks, trip blanks, and field duplicates) to aid in the evaluation of data usability. Data usability is summarized in the following table.

Data Usability

Parameter	Percent Usability	Rejected Data
VOCs	99.1	A total of one sample result was rejected due to MS/MSD recovery deviations.
SVOCs	100	None
PCBs	100	None
Pesticides	55.7	A total of 49 sample results were rejected due to surrogate recovery deviations.
Herbicides	100	None
PCDDs/PCDFs	100	None
Metals	100	None
Sulfides	100	None
Cyanides	100	None

The data package completeness, as determined from the Tier I data review, was used in combination with the data quality deviations identified during the Tier II data review to determine overall data quality. As specified in the FSP/QAPP, the overall precision, accuracy, representativeness, comparability, and completeness (PARCC) parameters determined from the Tier I and Tier II data reviews were used as indicators of overall data quality. These parameters were assessed through an evaluation of the results of the field and laboratory QA/QC sample analyses to provide a measure of compliance of the analytical data with the Data Quality Objectives (DQOs) specified in the FSP/QAPP. Therefore, the following sections present summaries of the PARCC parameters assessment with regard to the DQOs specified in the FSP/QAPP.

5.1 Precision

Precision measures the reproducibility of measurements under a given set of conditions. Specifically, it is a quantitative measure of the variability of a group of measurements compared to their average value. For this investigation, precision was defined as the RPD between duplicate sample results. The duplicate samples used to evaluate precision included field duplicates, MS/MSD samples, and LCS/LCSD samples. For this analytical program, 0.05% of the data required qualification due to field duplicate RPD deviations, 0.15% of the data required qualification due to MS/MSD RPD deviations, and 0.77% of the data required qualification due to LCS/LCSD RPD deviations.

5.2 Accuracy

Accuracy measures the bias in an analytical system or the degree of agreement of a measurement with a known reference value. For this investigation, accuracy was defined as the percent recovery of QA/QC samples that were spiked with a known concentration of an analyte or compound of interest. The QA/QC samples used to evaluate analytical accuracy included instrument calibration, internal standards, LCS/LCSDs, MS/MSD samples, CRDL samples, and surrogate compound recoveries. For this analytical program, 4.7% of the data required qualification due to instrument calibration deviations, 0.83% of the data required qualification due to LCS/LCSD recovery deviations, 1.1% of the data required qualification due to MS/MSD recovery deviations, 1.2% of the data required qualification due to CRDL recovery deviations, and 3.4% of the data was qualified due to surrogate compound recovery deviations. None of the data required qualification due to internal standard recovery deviations.

5.3 Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Representativeness is a qualitative parameter, which is most concerned with the proper design of the sampling program. The representativeness criterion is best satisfied by making certain that sampling locations are selected properly and a sufficient number of samples are collected. This parameter has been addressed by collecting samples at locations specified in the EPA-approved work plans, and by following the procedures for sample collection/analyses that were described in the FSP/QAPP. Additionally, the analytical program used procedures consistent with EPA-approved analytical methodology. A QA/QC parameter that is an indicator of the representativeness of a sample is holding time. Holding time criteria are established to maintain the samples in a state that is representative of the in-situ field conditions before analysis. For this analytical data set, none of the data required qualification due to holding time deviations.

5.4 Comparability

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. This goal was achieved through the use of the standardized techniques for sample collection and analysis presented in the FSP/QAPP. Specifically, all the groundwater samples collected in December 2008 were analyzed by EPA SW-846 method 8082 for PCBs, 8260 for VOCs, 8270 for SVOCs, 8290 for PCDDs/PCDFs, 8081 for pesticides, 8151 for herbicides, 6000/7000 for metals, 9030 for sulfides, and 9014 for cyanides.

5.5 Completeness

Completeness is defined as the percentage of measurements that are judged to be valid or usable to meet the prescribed DQOs. The completeness criterion is essentially the same for all data uses -- the generation of a sufficient amount of valid data. The actual completeness of this analytical data set ranged from 55.7% to 100% for individual analytical parameters and had an overall usability of 95.0%, which is greater than the minimum required usability of 90% as specified in the FSP/QAPP.

The rejected sample data for these investigations include sample analyses results for 49 pesticides for several sample locations due to surrogate recoveries less than 10%. Re-sampling at these locations is not recommended since re-extraction was performed and similar results were recovered.

Table B-1
Data Validation Summary
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General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCBs											
G582-279	RAA10-E-AAA22 (1 - 3)	12/19/2008	Soil	Tier I	No						
G582-279	RAA10-E-AAA22 (15 - 19)	12/19/2008	Soil	Tier I	No						
G582-279	RAA10-E-AAA22 (3 - 6)	12/19/2008	Soil	Tier I	No						
G582-279	RAA10-E-AAA22 (6 - 15)	12/19/2008	Soil	Tier I	No						
G582-279	RAA10-E-ZZ27 (1 - 3)	12/19/2008	Soil	Tier I	No						
G582-279	RAA10-E-ZZ27 (3 - 6)	12/19/2008	Soil	Tier I	No						
G582-279	RAA10-E-ZZ27 (6 - 15)	12/19/2008	Soil	Tier I	No						
G582-279	RAA10-UB-DUP-3 (1 - 3)	12/19/2008	Soil	Tier I	No						Duplicate of UB-UTL-10
G582-279	UB-UTL-10 (1 - 3)	12/19/2008	Soil	Tier I	No						
G582-279	UB-UTL-10 (3 - 6)	12/19/2008	Soil	Tier I	No						
G582-279	UB-UTL-10 (6 - 15)	12/19/2008	Soil	Tier I	No						
G582-281	RAA10-E-BBB26 (0 - 1)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-E-BBB26 (1 - 3)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-E-BBB26 (3 - 6)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-E-BBB26 (6 - 15)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-E-BBB28 (0 - 1)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-E-BBB28 (1 - 3)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-E-BBB28 (3 - 6)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-E-BBB28 (6 - 15)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-E-DDD27 (0 - 1)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-E-DDD27 (1 - 3)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-E-DDD27 (3 - 6)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-E-DDD27 (6 - 15)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-UB-DUP-1 (6 - 15)	12/18/2008	Soil	Tier II	No						Duplicate of RAA10-E-BBB26
G582-285	RAA10-E-TT19 (1 - 3)	12/22/2008	Soil	Tier II	No						
G582-285	RAA10-E-TT19 (3 - 6)	12/22/2008	Soil	Tier II	No						
G582-285	RAA10-E-TT19 (6 - 15)	12/22/2008	Soil	Tier II	No						
G582-285	RAA10-E-YY20 (1 - 3)	12/22/2008	Soil	Tier II	No						
G582-285	RAA10-E-YY20 (3 - 6)	12/22/2008	Soil	Tier II	No						
G582-285	RAA10-E-YY20 (6 - 15)	12/22/2008	Soil	Tier II	No						
G582-285	RAA10-UB-DUP-4 (3 - 6)	12/22/2008	Soil	Tier II	No						Duplicate of UB-UTL-7
G582-285	UB-RB-1	12/23/2008	Water	Tier II	Yes	Aroclor-1016	LCS/LCSD RPD	32.8%	<30%	ND(0.000073) J	
						Aroclor-1221	LCS/LCSD RPD	32.8%	<30%	ND(0.000073) J	
						Aroclor-1232	LCS/LCSD RPD	32.8%	<30%	ND(0.000073) J	
						Aroclor-1242	LCS/LCSD RPD	32.8%	<30%	ND(0.000073) J	
						Aroclor-1248	LCS/LCSD RPD	32.8%	<30%	ND(0.000073) J	
						Aroclor-1254	LCS/LCSD RPD	32.8%	<30%	ND(0.000073) J	
						Aroclor-1260	LCS/LCSD RPD	32.8%	<30%	ND(0.000073) J	
						Total PCBs	LCS/LCSD RPD	32.8%	<30%	ND(0.000073) J	
G582-285	UB-UTL-4 (1 - 3)	12/23/2008	Soil	Tier II	No						
G582-285	UB-UTL-4 (3 - 6)	12/23/2008	Soil	Tier II	No						
G582-285	UB-UTL-4 (6 - 10)	12/23/2008	Soil	Tier II	No						
G582-285	UB-UTL-5 (1 - 3)	12/23/2008	Soil	Tier II	No						
G582-285	UB-UTL-5 (3 - 6)	12/23/2008	Soil	Tier II	No						
G582-285	UB-UTL-5 (6 - 12)	12/23/2008	Soil	Tier II	No						
G582-285	UB-UTL-6 (0 - 1)	12/23/2008	Soil	Tier II	No						
G582-285	UB-UTL-6 (1 - 3)	12/23/2008	Soil	Tier II	No						
G582-285	UB-UTL-6 (3 - 6)	12/23/2008	Soil	Tier II	No						
G582-285	UB-UTL-6 (6 - 12)	12/23/2008	Soil	Tier II	No						
G582-285	UB-UTL-7 (1 - 3)	12/22/2008	Soil	Tier II	No						
G582-285	UB-UTL-7 (3 - 6)	12/22/2008	Soil	Tier II	No						
G582-285	UB-UTL-7 (6 - 12)	12/22/2008	Soil	Tier II	No						
G582-285	UB-UTL-8 (1 - 3)	12/22/2008	Soil	Tier II	No						
G582-285	UB-UTL-8 (3 - 6)	12/22/2008	Soil	Tier II	No						
G582-285	UB-UTL-8 (6 - 15)	12/22/2008	Soil	Tier II	No						
G582-285	UB-UTL-9 (1 - 3)	12/22/2008	Soil	Tier II	No						
G582-285	UB-UTL-9 (3 - 6)	12/22/2008	Soil	Tier II	No						
G582-285	UB-UTL-9 (6 - 15)	12/22/2008	Soil	Tier II	No						
Metals											
G582-281	RAA10-E-BBB26 (0 - 1)	12/18/2008	Soil	Tier II	Yes	Antimony	MS %R	73.9%	75% to 125%	1.10 J	
						Nickel	CRDL Standard %R	146.0%	80% to 120%	10.1 J	
						Selenium	CRDL Standard %R	125.0%	80% to 120%	7.72 J	
						Thallium	MS/MSD %R	71.1%, 72.4%	75% to 125%	ND(1.21) J	
						Tin	CRDL Standard %R	127.0%	80% to 120%	ND(12.1) J	
						Tin	Method Blank	-	-	ND(12.1)	
						Zinc	Field Duplicate RPD (Soil)	66.2%	<50%	63.4 J	
G582-281	RAA10-E-BBB26 (6 - 15)	12/18/2008	Soil	Tier II	Yes	Antimony	MS %R	73.9%	75% to 125%	ND(4.16) J	

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Metals (continued)											
G582-281	RAA10-E-BBB26 (6 - 15)	12/18/2008	Soil	Tier II	Yes	Copper	CRDL Standard %R	157.0%	80% to 120%	41.6 J	
						Nickel	CRDL Standard %R	146.0%	80% to 120%	13.3 J	
						Selenium	CRDL Standard %R	125.0%	80% to 120%	6.19 J	
						Thallium	CRDL Standard %R	170.0%	80% to 120%	ND(1.04) J	
						Thallium	MS/MSD %R	71.1%, 72.4%	75% to 125%	ND(1.04) J	
						Tin	CRDL Standard %R	127.0%	80% to 120%	ND(10.4) J	
						Tin	Method Blank	-	-	ND(10.4)	
						Zinc	Field Duplicate RPD (Soil)	66.2%	<50%	42.6 J	
G582-281	RAA10-E-BBB28 (1 - 3)	12/18/2008	Soil	Tier II	Yes	Antimony	MS %R	73.9%	75% to 125%	ND(4.71) J	
						Copper	CRDL Standard %R	157.0%	80% to 120%	53.1 J	
						Nickel	CRDL Standard %R	146.0%	80% to 120%	8.43 J	
						Thallium	CRDL Standard %R	170.0%	80% to 120%	ND(1.18) J	
						Thallium	MS/MSD %R	71.1%, 72.4%	75% to 125%	ND(1.18) J	
						Tin	CRDL Standard %R	127.0%	80% to 120%	ND(11.8) J	
						Zinc	Field Duplicate RPD (Soil)	66.2%	<50%	9.05 J	
G582-281	RAA10-E-BBB28 (6 - 15)	12/18/2008	Soil	Tier II	Yes	Antimony	MS %R	73.9%	75% to 125%	ND(4.57) J	
						Copper	CRDL Standard %R	157.0%	80% to 120%	47.2 J	
						Thallium	CRDL Standard %R	170.0%	80% to 120%	ND(1.14) J	
						Thallium	MS/MSD %R	71.1%, 72.4%	75% to 125%	ND(1.14) J	
						Tin	CRDL Standard %R	127.0%	80% to 120%	6.19 J	
						Zinc	Field Duplicate RPD (Soil)	66.2%	<50%	70.7 J	
G582-281	RAA10-E-DDD27 (0 - 1)	12/18/2008	Soil	Tier II	Yes	Antimony	MS %R	73.9%	75% to 125%	9.38 J	
						Copper	CRDL Standard %R	167.0%	80% to 120%	154 J	
						Thallium	CRDL Standard %R	170.0%	80% to 120%	2.42 J	
						Thallium	MS/MSD %R	71.1%, 72.4%	75% to 125%	2.42 J	
						Tin	CRDL Standard %R	127.0%	80% to 120%	10.7 J	
						Zinc	Field Duplicate RPD (Soil)	66.2%	<50%	57.0 J	
G582-281	RAA10-E-DDD27 (3 - 6)	12/18/2008	Soil	Tier II	Yes	Antimony	MS %R	73.9%	75% to 125%	ND(4.28) J	
						Copper	CRDL Standard %R	157.0%	80% to 120%	33.3 J	
						Thallium	CRDL Standard %R	170.0%	80% to 120%	ND(1.07) J	
						Thallium	MS/MSD %R	71.1%, 72.4%	75% to 125%	ND(1.07) J	
						Tin	CRDL Standard %R	127.0%	80% to 120%	ND(10.7) J	
						Tin	Method Blank	-	-	ND(10.7)	
						Zinc	Field Duplicate RPD (Soil)	66.2%	<50%	73.0 J	
G582-281	RAA10-UB-DUP-1 (6 - 15)	12/18/2008	Soil	Tier II	Yes	Antimony	MS %R	73.9%	75% to 125%	ND(4.91) J	Duplicate of RAA10-E-BBB26
						Copper	CRDL Standard %R	157.0%	80% to 120%	33.6 J	
						Thallium	CRDL Standard %R	170.0%	80% to 120%	ND(1.23) J	
						Thallium	MS/MSD %R	71.1%, 72.4%	75% to 125%	ND(1.23) J	
						Tin	CRDL Standard %R	127.0%	80% to 120%	ND(12.3) J	
						Zinc	Field Duplicate RPD (Soil)	66.2%	<50%	84.8 J	
VOCs											
G582-281	RAA10-E-BBB26 (0 - 1)	12/18/2008	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.002	>0.05	ND(6.3) J	
						1,4-Dioxane	CCAL %D	100.0%	<25%	ND(6.3) J	
						2-Butanone	CCAL %D	32.2%	<25%	ND(0.016) J	
						2-Chloroethylvinylether	ICAL RRF	0.006	>0.05	ND(0.032) J	
						3-Chloropropene	CCAL %D	100.0%	<25%	ND(0.0063) J	
						Acetone	CCAL %D	46.3%	<25%	0.19 J	
						Acetonitrile	ICAL RRF	0.017	>0.05	ND(1.3) J	
						Acetonitrile	CCAL %D	100.0%	<25%	ND(1.3) J	
						Acrolein	ICAL RRF	0.035	>0.05	ND(0.078) J	
						Carbon Disulfide	CCAL %D	35.4%	<25%	ND(0.0063) J	
						Carbon Disulfide	LCS/LCSD RPD	33.6%	<30%	ND(0.0063) J	
						Chloroethane	CCAL %D	30.4%	<25%	ND(0.0063) J	
						Isobutanol	CCAL %D	100.0%	<25%	ND(3.2) J	
						Propionitrile	ICAL RRF	0.031	>0.05	ND(1.3) J	
G582-281	RAA10-E-BBB26 (10 - 12)	12/18/2008	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.002	>0.05	ND(5.5) J	
						2-Chloroethylvinylether	ICAL RRF	0.006	>0.05	ND(0.028) J	
						2-Chloroethylvinylether	CCAL %D	49.3%	<25%	ND(0.028) J	
						Acetonitrile	ICAL RRF	0.017	>0.05	ND(1.1) J	
						Acrolein	ICAL RRF	0.035	>0.05	ND(0.068) J	
						Bromomethane	CCAL %D	41.7%	<25%	ND(0.0055) J	
						Chloroethane	CCAL %D	82.5%	<25%	ND(0.0055) J	
						Chloroethane	LCS/LCSD RPD	70.0%	<30%	ND(0.0055) J	
						Propionitrile	ICAL RRF	0.031	>0.05	ND(1.1) J	
G582-281	RAA10-E-BBB28 (1 - 3)	12/18/2008	Soil	Tier II	Yes	1,2-Dibromoethane	MS/MSD %R	62.3%, 60.4%	78.3% to 148%	ND(0.0084) J	
						1,4-Dioxane	ICAL RRF	0.002	>0.05	ND(8.4) J	

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Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (continued)											
G582-281	RAA10-E-BBB28 (1 - 3)	12/18/2008	Soil	Tier II	Yes	2-Chloroethylvinylether	MS/MSD %R	0.0%, 0.0%	16.7% to 200%	R	
						2-Hexanone	MSD %R	26.4%	41.6% to 111%	ND(0.021) J	
						2-Hexanone	MS/MSD RPD	162.0%	<30%	ND(0.021) J	
						Acetonitrile	ICAL RRF	0.017	>0.05	ND(1.7) J	
						Acrolein	ICAL RRF	0.035	>0.05	ND(0.10) J	
						Bromodichloromethane	MSD %R	77.0%	77.4% to 140%	ND(0.0084) J	
						Bromoform	MSD %R	72.3%	74.7% to 161%	ND(0.0084) J	
						Bromomethane	CCAL %D	41.7%	<25%	ND(0.0084) J	
						Bromomethane	MS/MSD RPD	47.1%	<30%	ND(0.0084) J	
						Chlorobenzene	MS/MSD %R	51.7%, 43.8%	66.3% to 135%	ND(0.0084) J	
						Chloroethane	CCAL %D	82.5%	<25%	ND(0.0084) J	
						Chloroethane	LCS/LCSD RPD	70.0%	<30%	ND(0.0084) J	
						cis-1,3-Dichloropropene	MS/MSD %R	58.0%, 55.2%	72.1% to 146%	ND(0.0084) J	
						Dibromochloromethane	MS/MSD %R	73.2%, 73.9%	78.1% to 141%	ND(0.0084) J	
						Dibromomethane	MS/MSD %R	75.3%, 73.5%	80.0% to 150%	ND(0.0084) J	
						Ethylbenzene	MS/MSD %R	61.8%, 53.2%	73.8% to 126%	ND(0.0084) J	
						Methylene Chloride	MS/MSD %R	23.4%, 23.1%	48.6% to 155%	ND(0.0084) J	
						Propionitrile	ICAL RRF	0.031	>0.05	ND(1.7) J	
						Styrene	MS/MSD %R	49.7%, 40.1%	73.2% to 123%	ND(0.0084) J	
						Tetrachloroethene	MSD %R	43.6%	45.8% to 153%	ND(0.0084) J	
						Toluene	MS/MSD %R	63.2%, 56.3%	66.4% to 128%	ND(0.0084) J	
						trans-1,2-Dichloroethene	MS/MSD %R	68.1%, 63.0%	72.0% to 135%	ND(0.0084) J	
						Trichloroethene	MS/MSD %R	60.7%, 54.5%	84.9% to 136%	ND(0.0084) J	
						Xylenes (total)	MS/MSD %R	64.5%, 54.1%	79.8% to 118%	ND(0.0084) J	
G582-281	RAA10-E-BBB28 (12 - 14)	12/18/2008	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.002	>0.05	ND(6.6) J	
						1,4-Dioxane	CCAL %D	100.0%	<25%	ND(6.6) J	
						2-Butanone	CCAL %D	32.2%	<25%	0.014 J	
						2-Chloroethylvinylether	ICAL RRF	0.006	>0.05	ND(0.033) J	
						3-Chloropropene	CCAL %D	100.0%	<25%	ND(0.0066) J	
						Acetone	CCAL %D	46.3%	<25%	0.21 J	
						Acetonitrile	ICAL RRF	0.017	>0.05	ND(1.3) J	
						Acetonitrile	CCAL %D	100.0%	<25%	ND(1.3) J	
						Acrolein	ICAL RRF	0.035	>0.05	ND(0.081) J	
						Carbon Disulfide	CCAL %D	35.4%	<25%	ND(0.0066) J	
						Carbon Disulfide	LCS/LCSD RPD	33.6%	<30%	ND(0.0066) J	
						Chloroethane	CCAL %D	30.4%	<25%	ND(0.0066) J	
						Isobutanol	CCAL %D	100.0%	<25%	ND(3.3) J	
						Propionitrile	ICAL RRF	0.031	>0.05	ND(1.3) J	
G582-281	RAA10-E-DDD27 (0 - 1)	12/18/2008	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.002	>0.05	ND(6.4) J	
						1,4-Dioxane	CCAL %D	100.0%	<25%	ND(6.4) J	
						2-Butanone	CCAL %D	32.2%	<25%	ND(0.016) J	
						2-Chloroethylvinylether	ICAL RRF	0.006	>0.05	ND(0.032) J	
						3-Chloropropene	CCAL %D	100.0%	<25%	ND(0.0064) J	
						Acetone	CCAL %D	46.3%	<25%	0.083 J	
						Acetonitrile	ICAL RRF	0.017	>0.05	ND(1.3) J	
						Acetonitrile	CCAL %D	100.0%	<25%	ND(1.3) J	
						Acrolein	ICAL RRF	0.035	>0.05	ND(0.079) J	
						Carbon Disulfide	CCAL %D	35.4%	<25%	ND(0.0064) J	
						Carbon Disulfide	LCS/LCSD RPD	33.6%	<30%	ND(0.0064) J	
						Chloroethane	CCAL %D	30.4%	<25%	ND(0.0064) J	
						Isobutanol	CCAL %D	100.0%	<25%	ND(3.2) J	
						Propionitrile	ICAL RRF	0.031	>0.05	ND(1.3) J	
G582-281	RAA10-E-DDD27 (4 - 6)	12/18/2008	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.002	>0.05	ND(5.0) J	
						2-Chloroethylvinylether	ICAL RRF	0.006	>0.05	ND(0.025) J	
						2-Chloroethylvinylether	CCAL %D	49.3%	<25%	ND(0.025) J	
						Acetonitrile	ICAL RRF	0.017	>0.05	ND(1.0) J	
						Acrolein	ICAL RRF	0.035	>0.05	ND(0.062) J	
						Bromomethane	CCAL %D	41.7%	<25%	ND(0.0050) J	
						Chloroethane	CCAL %D	82.5%	<25%	ND(0.0050) J	
						Chloroethane	LCS/LCSD RPD	70.0%	<30%	ND(0.0050) J	
						Propionitrile	ICAL RRF	0.031	>0.05	ND(1.0) J	
G582-281	RAA10-UB-DUP-2 (10 - 12)	12/18/2008	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.002	>0.05	ND(5.9) J	Duplicate of RAA10-E-BBB26
						1,4-Dioxane	CCAL %D	100.0%	<25%	ND(5.9) J	
						2-Butanone	CCAL %D	32.2%	<25%	ND(0.015) J	
						2-Chloroethylvinylether	ICAL RRF	0.006	>0.05	ND(0.029) J	
						3-Chloropropene	CCAL %D	100.0%	<25%	ND(0.0059) J	

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Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (continued)											
G582-281	RAA10-UB-DUP-2 (10 - 12)	12/18/2008	Soil	Tier II	Yes	Acetone	CCAL %D	46.3%	<25%	ND(0.015) J	
						Acetonitrile	ICAL RRF	0.017	>0.05	ND(1.2) J	
						Acetonitrile	CCAL %D	100.0%	<25%	ND(1.2) J	
						Acrolein	ICAL RRF	0.035	>0.05	ND(0.072) J	
						Carbon Disulfide	CCAL %D	35.4%	<25%	ND(0.0059) J	
						Carbon Disulfide	LCS/LCSD RPD	33.6%	<30%	ND(0.0059) J	
						Chloroethane	CCAL %D	30.4%	<25%	ND(0.0059) J	
						Isobutanol	CCAL %D	100.0%	<25%	ND(2.9) J	
						Propionitrile	ICAL RRF	0.031	>0.05	ND(1.2) J	
SVOCs											
G582-281	RAA10-E-BBB26 (0 - 1)	12/18/2008	Soil	Tier II	Yes	4-Chloroaniline	CCAL %D	99.1%	<25%	ND(1.9) J	
						4-Nitrophenol	LCS %R	14.6%	39.6% to 116%	ND(1.9) J	
						Hexachlorophene	ICAL RRF	0.019	>0.05	ND(0.39) J	
						Isophorone	LCS %R	75.0%	76.7% to 116%	ND(0.39) J	
G582-281	RAA10-E-BBB26 (6 - 15)	12/18/2008	Soil	Tier II	Yes	4-Chloroaniline	CCAL %D	99.1%	<25%	ND(1.9) J	
						4-Nitrophenol	LCS %R	14.6%	39.6% to 116%	ND(1.9) J	
						Hexachlorophene	ICAL RRF	0.019	>0.05	ND(0.37) J	
						Isophorone	LCS %R	75.0%	76.7% to 116%	ND(0.37) J	
G582-281	RAA10-E-BBB28 (1 - 3)	12/18/2008	Soil	Tier II	Yes	2,4-Dimethylphenol	MS/MSD %R	76.7%, 77.5%	85.4% to 138%	ND(0.37) J	
						2-Nitroaniline	MSD %R	0.6%	70.0% to 129%	ND(0.37) J	
						3&4-Methylphenol	MS %R	0.0%	71.2% to 101%	ND(0.37) J	
						3,3'-Dichlorobenzidine	MS/MSD RPD	46.6%	<30%	ND(0.74) J	
						4-Chloroaniline	CCAL %D	99.1%	<25%	ND(1.9) J	
						4-Nitrophenol	LCS %R	14.6%	39.6% to 116%	ND(1.9) J	
						4-Nitrophenol	MS/MSD %R	13.2%, 14.4%	56.8% to 133%	ND(1.9) J	
						Hexachlorophene	ICAL RRF	0.019	>0.05	ND(0.37) J	
						Isophorone	LCS %R	75.0%	76.7% to 116%	ND(0.37) J	
G582-281	RAA10-E-BBB28 (6 - 15)	12/18/2008	Soil	Tier II	Yes	4-Chloroaniline	CCAL %D	99.1%	<25%	ND(2.0) J	
						4-Nitrophenol	LCS %R	14.6%	39.6% to 116%	ND(2.0) J	
						Hexachlorophene	ICAL RRF	0.019	>0.05	ND(0.40) J	
						Isophorone	LCS %R	75.0%	76.7% to 116%	ND(0.40) J	
G582-281	RAA10-E-DDD27 (0 - 1)	12/18/2008	Soil	Tier II	Yes	4-Nitrophenol	LCS %R	14.6%	39.6% to 116%	ND(9.9) J	
						Hexachlorophene	ICAL RRF	0.019	>0.05	ND(9.9) J	
						Isophorone	LCS %R	75.0%	76.7% to 116%	ND(2.0) J	
						Phorate	CCAL %D	31.6%	<25%	ND(2.0) J	
G582-281	RAA10-E-DDD27 (3 - 6)	12/18/2008	Soil	Tier II	Yes	4-Chloroaniline	CCAL %D	99.1%	<25%	ND(1.7) J	
						4-Nitrophenol	LCS %R	14.6%	39.6% to 116%	ND(1.7) J	
						Hexachlorophene	ICAL RRF	0.019	>0.05	ND(0.35) J	
						Isophorone	LCS %R	75.0%	76.7% to 116%	ND(0.35) J	
G582-281	RAA10-UB-DUP-1 (6 - 15)	12/18/2008	Soil	Tier II	Yes	4-Chloroaniline	CCAL %D	99.1%	<25%	ND(1.9) J	Duplicate of RAA10-E-BBB26
						4-Nitrophenol	LCS %R	14.6%	39.6% to 116%	ND(1.9) J	
						Hexachlorophene	ICAL RRF	0.019	>0.05	ND(0.38) J	
						Isophorone	LCS %R	75.0%	76.7% to 116%	ND(0.38) J	
Pesticides											
G582-281	RAA10-E-BBB26 (6 - 15)	12/18/2008	Soil	Tier II	Yes	4,4'-DDD	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	0.13 J	
						4,4'-DDE	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	R	
						4,4'-DDT	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	0.27 J	
						Aldrin	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	R	
						Alpha-BHC	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	R	
						Alpha-Chlordane	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	R	
						Beta-BHC	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	R	
						Delta-BHC	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	R	
						Dieldrin	Dual Column RPD	51.40%	< 40%	0.075 J	
						Dieldrin	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	0.075 J	
						Endosulfan I	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	R	
						Endosulfan II	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	R	
						Endosulfan Sulfate	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	R	
						Endrin	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	0.036 J	
						Endrin Aldehyde	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	R	
						Endrin Ketone	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	0.19 J	
						Gamma-BHC (Lindane)	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	R	
						Gamma-Chlordane	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	0.077 J	
						Heptachlor	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	R	
						Heptachlor Epoxide	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	0.031 J	
						Methoxychlor	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	R	
						Technical Chlordane	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	R	

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Pesticides (continued)											
G582-281	RAA10-E-BBB26 (6 - 15)	12/18/2008	Soil	Tier II	Yes	Toxaphene	Surrogate Recovery	4.5%, 17.3%	29.8% to 134%	R	
G582-281	RAA10-E-BBB28 (1 - 3)	12/18/2008	Soil	Tier II	Yes	4,4'-DDT	Dual Column RPD	74.7%	< 40%	0.0058 J	
						Endrin Ketone	Dual Column RPD	54.1%	< 40%	0.013 J	
						Methoxychlor	Dual Column RPD	183.9%	< 40%	0.0025 J	
G582-281	RAA10-E-DDD27 (0 - 1)	12/18/2008	Soil	Tier II	Yes	4,4'-DDD	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	R	
						4,4'-DDE	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	R	
						4,4'-DDT	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	0.052 J	
						4,4'-DDT	Dual Column RPD	69.9%	< 40%	0.052 J	
						Aldrin	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	R	
						Alpha-BHC	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	R	
						Alpha-Chlordane	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	R	
						Beta-BHC	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	R	
						Delta-BHC	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	R	
						Dieldrin	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	R	
						Endosulfan I	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	R	
						Endosulfan II	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	R	
						Endosulfan Sulfate	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	R	
						Endrin	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	R	
						Endrin Aldehyde	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	R	
						Endrin Ketone	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	0.041 J	
						Endrin Ketone	Dual Column RPD	44.1%	< 40%	0.041 J	
						Gamma-BHC (Lindane)	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	R	
						Gamma-Chlordane	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	R	
						Heptachlor	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	R	
						Heptachlor Epoxide	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	R	
						Methoxychlor	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	R	
						Technical Chlordane	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	R	
						Toxaphene	Surrogate Recovery	24.5%, 6.6%	29.8% to 134%	R	
G582-281	RAA10-UB-DUP-1 (6 - 15)	12/18/2008	Soil	Tier II	Yes	4,4'-DDD	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	0.11 J	Duplicate of RAA10-E-BBB26
						4,4'-DDE	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	R	
						4,4'-DDT	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	0.22 J	
						4,4'-DDT	Dual Column RPD	45.4%	< 40%	0.22 J	
						Aldrin	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	R	
						Alpha-BHC	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	R	
						Alpha-Chlordane	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	R	
						Beta-BHC	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	R	
						Delta-BHC	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	R	
						Dieldrin	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	0.11 J	
						Endosulfan I	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	R	
						Endosulfan II	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	R	
						Endosulfan Sulfate	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	R	
						Endrin	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	0.036 J	
						Endrin Aldehyde	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	0.083 J	
						Endrin Ketone	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	0.17 J	
						Gamma-BHC (Lindane)	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	R	
						Gamma-Chlordane	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	0.068 J	
						Heptachlor	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	R	
						Heptachlor Epoxide	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	0.030 J	
						Methoxychlor	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	R	
						Technical Chlordane	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	R	
						Toxaphene	Surrogate Recovery	4.1%,29.4%	29.8% to 134%	R	
Herbicides											
G582-281	RAA10-E-BBB26 (6 - 15)	12/18/2008	Soil	Tier II	Yes	Dinoseb	CCAL %D	17.0%	<15%	0.087 J	
						Dinoseb	LCS %R	134.0%	47.9% to 116%	0.087 J	
						Dinoseb	Dual Column RPD	114.0%	< 40%	0.087 J	
G582-281	RAA10-E-BBB28 (1 - 3)	12/18/2008	Soil	Tier II	Yes	Dinoseb	CCAL %D	17.0%	<15%	ND(0.036) J	
G582-281	RAA10-E-DDD27 (0 - 1)	12/18/2008	Soil	Tier II	Yes	Dinoseb	CCAL %D	17.0%	<15%	ND(0.039) J	
G582-281	RAA10-UB-DUP-1 (6 - 15)	12/18/2008	Soil	Tier II	Yes	2,4-D	MS/MSD %R	0.0%, 0.0%	60.0% to 140%	ND(0.038) J	Duplicate of RAA10-E-BBB26
						Dinoseb	MSD %R	0.0%	60.0% to 140%	0.12 J	
						Dinoseb	CCAL %D	17.0%	<15%	0.12 J	
						Dinoseb	LCS %R	134.0%	47.9% to 116%	0.12 J	
						Dinoseb	Dual Column RPD	73.3%	< 40%	0.12 J	
PCDDs/PCDFs											
G582-281	RAA10-E-BBB26 (6 - 15)	12/18/2008	Soil	Tier II	Yes	PeCDDs (total)	Quantitative Interference	-	-	0.0000021 J	
						PeCDFs (total)	Quantitative Interference	-	-	0.000043 J	
G582-281	RAA10-E-BBB28 (1 - 3)	12/18/2008	Soil	Tier II	Yes	1,2,3,6,7,8-HxCDF	Quantitative Interference	-	-	ND(0.00000041) J	

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PCDDs/PCDFs (continued)											
G582-281	RAA10-E-BBB28 (1 - 3)	12/18/2008	Soil	Tier II	Yes	1,2,3,7,8-PeCDF	Quantitative Interference	-	-	0.00000037 J	
						2,3,4,7,8-PeCDF	Quantitative Interference	-	-	0.00000043 J	
						2,3,7,8-TCDD	Quantitative Interference	-	-	ND(0.00000041) J	
						2,3,7,8-TCDF	Quantitative Interference	-	-	ND(0.00000093) J	
						HxCDDs (total)	Quantitative Interference	-	-	0.0000012 J	
						HxCDFs (total)	Quantitative Interference	-	-	0.0000025 J	
						PeCDDs (total)	Quantitative Interference	-	-	0.0000011 J	
						PeCDFs (total)	Quantitative Interference	-	-	0.0000056 J	
						TCDDs (total)	Quantitative Interference	-	-	0.0000026 J	
						TCDFs (total)	Quantitative Interference	-	-	0.0000080 J	
G582-281	RAA10-E-DDD27 (0 - 1)	12/18/2008	Soil	Tier II	Yes	1,2,3,4,6,7,8-HpCDF	Quantitative Interference	-	-	0.000041 J	
						1,2,3,7,8-PeCDD	Quantitative Interference	-	-	0.0000037 J	
						1,2,3,7,8-PeCDF	Quantitative Interference	-	-	0.0000057 J	
						2,3,4,7,8-PeCDF	Quantitative Interference	-	-	0.000015 J	
						2,3,7,8-TCDD	Quantitative Interference	-	-	0.000028 J	
						2,3,7,8-TCDF	Quantitative Interference	-	-	0.000019 J	
						HpCDFs (total)	Quantitative Interference	-	-	0.00014 J	
						HxCDDs (total)	Quantitative Interference	-	-	0.00016 J	
						HxCDFs (total)	Quantitative Interference	-	-	0.00013 J	
						PeCDDs (total)	Quantitative Interference	-	-	0.000071 J	
						PeCDFs (total)	Quantitative Interference	-	-	0.00015 J	
						TCDDs (total)	Quantitative Interference	-	-	0.000097J	
						TCDFs (total)	Quantitative Interference	-	-	0.00018 J	
G582-281	RAA10-UB-DUP-1 (6 - 15)	12/18/2008	Soil	Tier II	Yes	PeCDDs (total)	Quantitative Interference	-	-	0.0000012 J	Duplicate of RAA10-E-BBB26
						PeCDFs (total)	Quantitative Interference	-	-	0.000043 J	
Cyanide-MADEP (PAC)											
G582-281	RAA10-E-BBB26 (0 - 1)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-E-BBB26 (6 - 15)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-E-BBB28 (1 - 3)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-E-BBB28 (6 - 15)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-E-DDD27 (0 - 1)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-E-DDD27 (3 - 6)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-UB-DUP-1 (6 - 15)	12/18/2008	Soil	Tier II	No						Duplicate of RAA10-E-BBB26
Sulfide											
G582-281	RAA10-E-BBB26 (0 - 1)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-E-BBB26 (6 - 15)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-E-BBB28 (1 - 3)	12/18/2008	Soil	Tier II	Yes	Sulfide	MS/MSD %R	30.0%, 28.0%	75% to 125%	15.0 J	
G582-281	RAA10-E-BBB28 (6 - 15)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-E-DDD27 (0 - 1)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-E-DDD27 (3 - 6)	12/18/2008	Soil	Tier II	No						
G582-281	RAA10-UB-DUP-1 (6 - 15)	12/18/2008	Soil	Tier II	No						Duplicate of RAA10-E-BBB26