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NCBC DAVISVILLE
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U.S. NAVY NORTHERN DIVISION
REMEDIAL ACTION CONTRACT (RAC)
CONTRACT NO. N62472-94-D-0398
DELIVERY ORDER NO. 0006

SAMPLING AND ANALYSIS REPORT FOR SITE 12 BAY B CONCRETE FLOOR PCB ANALYSES

NAVAL CONSTRUCTION BATTALION CENTER (NCBC)
DAVISVILLE, RHODE ISLAND

May 1997

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1.0 PROJECT DESCRIPTION

Foster Wheeler Environmental Corporation (Foster Wheeler) has prepared this Sampling and Analysis Report for Delivery Order No. 0006 under the U.S. Navy Northern Division Remedial Action Contract (RAC) N62472-94-D-0398. This report covers concrete floor sampling performed at Site 12 located at the Naval Construction Battalion Center (NCBC) in Davisville, Rhode Island.

Site 12 is located in Bay B of Building 316, a large storage building on the NCBC. Building 316 has been partitioned into five storage bays, each measuring approximately 200 feet by 200 feet. Bay B is one of the five bays and was reportedly once used by the Navy to store electrical transformers.

In 1977, one of the transformers was ruptured, spilling transformer oil, containing polychlorinated biphenyls (PCBs), onto the concrete floor. After the spill occurred, the transformer oil was contained and cleaned up by Navy personnel. Since the initial cleanup effort, the site has been subjected to three separate remedial actions involving excavation, demolition, and disposal of PCB contaminated concrete and soil, followed by confirmatory soil and concrete sampling. The remedial actions have not, however, been completely successful in eliminating elevated concentrations of PCBs (i.e., greater than 10 parts per million (ppm) from soil and concrete in Bay B.

In an effort to remove all PCB contaminated soil and concrete and thereby allow for the Navy to petition for an unrestricted release of the building, Foster Wheeler has removed PCB contaminated soil and concrete slab material and has completed compliance sampling of remediated areas. Foster Wheeler has performed the concrete floor sampling for PCB "hot spots" in Bay B where the concrete floor was not previously removed during remediation activities. The concrete sampling has been performed to identify any other areas of PCB contamination that may be unrelated to the spill that was documented in 1977. To secure unrestricted release of Site 12, a sampling program has been implemented to identify localized areas where PCB concentrations exceed the cleanup standard of 10 ppm. This Sampling and Analysis Report details the field activities that were performed to complete this additional concrete sampling effort, tabulates the data obtained, details the results of Tier II data validation performed on the data, and includes the full data packages in Attachment A.

2.0 FIELD INVESTIGATION

2.1 Introduction

The Site 12 field investigation consisted of marking the sampling points on the concrete floor in Bay B, and then collecting samples for PCB analysis at each location. Sampling activities were performed between February 18 and 27, 1997 following procedures described in the *Sampling and Analysis Plan for Site 12 Bay B Concrete Floor PCB Analysis* (Site 12 SAP) issued in November 1996. Specific details of this sampling program and deviations from the Site 12 SAP are presented in this section of the report.

2.2 Determination of Sampling Locations

Concrete floor PCB sampling locations at Site 12 were generated based on an approach that combined systematic and random sampling components. The systematic component was incorporated into the sampling by laying a uniformly spaced grid over Bay B. One randomly generated sampling point was then assigned to each grid cell. The specific advantages of this approach over a purely random approach or a purely systematic approach are discussed in detail in the Site 12 SAP.

To locate the sampling points, a uniform grid consisting of 12 columns and 12 rows, each measuring 17 feet on a side, was placed on the floor of Bay B. This was accomplished by stretching a 200-foot tape measure north to south across Bay B and marking the grid cell boundaries at 17-foot intervals. Grid cell boundaries were measured to the nearest tenth of a foot. Once all the grid cell boundaries had been marked, the accuracy of the boundaries were checked by locating selected grid cell boundaries using a different reference point then was initially used. In all instances, grid cell boundaries were located within 0.5 feet of their initial positions. A randomly generated sampling point was then placed in each grid cell based on the randomly generated sampling coordinates presented in the Site 12 SAP. Each random sampling point was located using the lower left-hand corner of the corresponding grid cell as a reference point.

A total of 139 sampling points were proposed in the SAP; however, following completion of the SAP, the concrete floor was removed from the grid cell located in column 2, row 7 and could not be sampled. None of the other sampling locations proposed in the SAP needed to be eliminated or relocated. Sampling locations are shown on Figure 1 and the randomly generated sampling coordinates are presented in Table 1.

2.2 Concrete Floor Sample Collection

Concrete samples were collected between February 20 and 27, 1997. The samples were collected from the first 0.5 inch of concrete by drilling into the concrete using a Milwaukee Rotary Impact Drill with a 1 inch diameter drill bit attached. The drilling produced a concrete powder that was collected with a stainless-steel spatula and placed in a stainless-steel bowl. The sample was then homogenized, placed in a sample jar, labeled and packaged following procedures outlined in the Site 12 SAP. Samples were then picked up by a courier and transported to the analytical laboratory. Drilling a single hole would generally produce adequate sample quantity for the laboratory analysis; however, when field duplicates were collected two drill holes were required, and when MS/MSDs were collected three drill holes were required. Where more than one hole was required to provide adequate sample volume for quality control samples, the holes were drilled immediately adjacent to the initial hole.

The following Quality Control (QC) samples were collected during this sampling program:

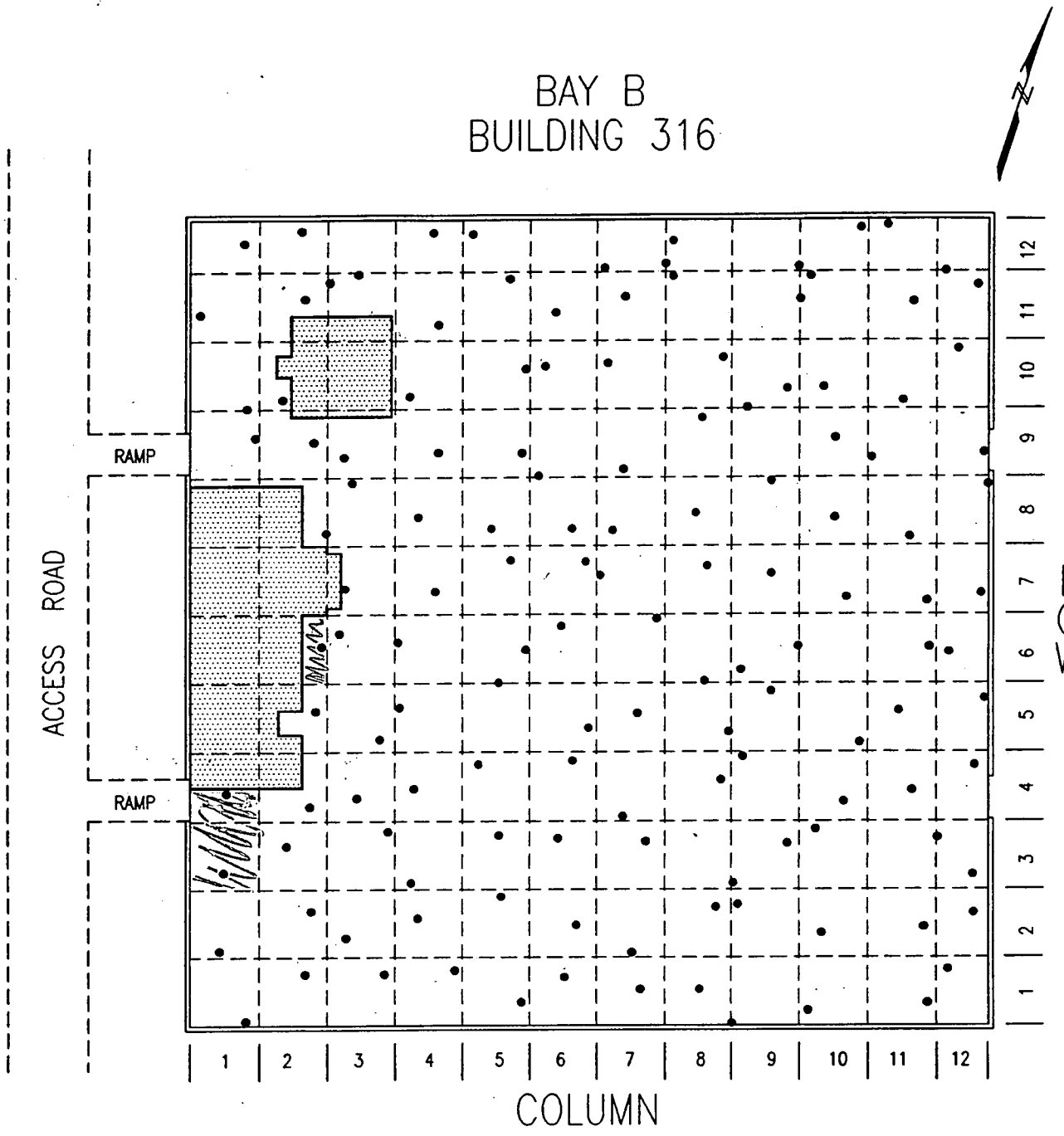
- Matrix spike/matrix spike duplicate (MS/MSD) samples were collected at a frequency of 1 MS/MSD per 20 samples. Table 1 identifies the sampling locations where the MS/MSDs were collected.

- Duplicate samples were collected at a frequency of 1 duplicate per 10 samples. Duplicate samples were submitted to the laboratory using a sample ID that was different than the initial ID. Table 1 identifies sample locations where duplicate samples were collected and also provides the duplicate sample ID.

- Equipment blanks were collected at a frequency of 1 per day following procedures outlined in the SAP.

- One field blank was collected during this sampling program at sampling location 0505. Procedures for collection of the field blank are outlined in the Site 12 SAP.

All sampling equipment was decontaminated prior to collection of each sample, following the equipment decontamination procedure presented in the Site 12 SAP.



NOTE:
GRID SPACING IS 17 BY 17 FEET, EXCEPT FOR COLUMN 12 AND ROW 12 WHERE GRID CELL SPACING IS 17 BY 13 FEET.

GRAPHIC SCALE

0 25 50 100

LEGEND

CONCRETE REMOVED DURING REMEDIATION

SYSTEMATIC GRID OVERLAY

RANDOMLY, GENERATED SAMPLING POINT

FIGURE 1

NAVAL CONSTRUCTION BATTALION CENTER
DAVISVILLE, RHODE ISLAND

SITE 12 GRID OVERLAY WITH RANDOM SAMPLING POINTS

SCALE: AS NOTED

CADDFILE: 1284S005.DWG

Table 1
Randomly Generated Sampling Coordinates

Sample #	Grid ID		Maximum and Minimum Grid Coordinates				Random Coordinates		Sample	QA/QC
	Column	Row	X min	X max	Y min	Y max	x	y	Date	Samples
0101	1	1	0	17	0	17	13.56	1.48	2/20/97	MS/MSD
0102	1	2	0	17	17	34	7.34	18.63	2/20/97	(1301)
0103	1	3	0	17	34	51	7.87	38.17	2/20/97	
0104	1	4	0	17	51	58	8.69	57.63	2/20/97	
*	1	5	0	17	68	85	*	*	*	
*	1	6	0	17	85	102	*	*	*	
*	1	7	0	17	102	119	*	*	*	
*	1	8	0	17	119	136	*	*	*	
0109	1	9	0	17	136	153	15.74	146.09	2/20/97	
0110	1	10	0	17	153	170	14.08	153.39	2/20/97	
0111	1	11	0	17	170	187	1.89	176.21	2/20/97	
0112	1	12	0	17	187	200	13.37	194.24	2/20/97	
0201	2	1	17	34	0	17	28.88	13.06	2/20/97	
0202	2	2	17	34	17	34	29.59	29.17	2/20/97	
0203	2	3	17	34	34	51	25.47	44.68	2/20/97	
0204	2	4	28	34	51	58	28.84	53.89	2/20/97	
0205	2	5	28	34	68	85	31.23	77.95	2/20/97	
0206	2	6	28	34	85	102	32.76	93.72	2/20/97	
*	2	7	28	34	102	119	*	*	*	
0208	2	8	28	34	119	136	33.78	121.68	2/20/97	
0209	2	9	17	34	136	153	30.96	144.91	2/20/97	(1302)
0210	2	10	17	24	153	170	22.58	155.20	2/20/97	
0211	2	11	17	34	177	187	28.44	180.90	2/20/97	
0212	2	12	17	34	187	200	27.75	197.38	2/20/97	
0301	3	1	34	51	0	17	47.75	12.72	2/20/97	
0302	3	2	34	51	17	34	39.31	21.90	2/20/97	MS/MSD
0303	3	3	34	51	34	51	49.68	47.84	2/20/97	(1303)
0304	3	4	34	51	51	68	41.27	55.77	2/20/97	
0305	3	5	34	51	68	85	46.59	71.05	2/20/97	
0306	3	6	34	51	85	102	36.70	96.95	2/20/97	
0307	3	38	34	51	102	119	38.45	108.94	2/20/97	
0308	3	8	34	51	119	136	40.01	135.41	2/20/97	
0309	3	9	34	51	136	153	37.97	141.26	2/21/97	(1304)
*	3	10	34	51	153	170	*	*	*	
0311	3	11	34	51	177	187	35.03	185.02	2/21/97	
0312	3	12	34	51	187	200	42.30	187.18	2/21/97	
0401	4	1	51	68	0	17	66.84	13.52	2/21/97	
0402	4	2	51	68	17	34	57.33	26.37	2/21/97	
0403	4	3	51	68	34	51	55.11	35.34	2/21/97	
0404	4	4	51	68	51	68	55.71	59.47	2/21/97	(1305)
0405	4	5	51	68	68	85	51.97	79.40	2/21/97	MS/MSD
0406	4	6	51	68	85	102	52.11	91.51	2/21/97	
0407	4	7	51	68	102	119	60.85	108.30	2/21/97	
0408	4	8	51	68	119	136	56.59	126.48	2/21/97	
0409	4	9	51	68	136	153	62.50	143.20	2/21/97	

Table 1
Randomly Generat d Sampling Coordinates

Sample #	Grid ID		Maximum and Minimum Grid Coordinates				Random Coordinates		Sample	QA/QC
	Column	Row	X min	X max	Y min	Y max	x	y	Date	Samples
0410	4	10	51	68	153	170	54.98	156.29	2/21/97	
0411	4	11	51	68	170	187	62.32	172.73	2/21/97	
0412	4	12	51	68	187	200	60.26	196.77	2/21/97	
0501	5	1	68	85	0	17	82.68	5.80	2/21/97	
0502	5	2	68	85	17	34	77.63	31.68	2/21/97	
0503	5	3	68	85	34	51	77.38	47.86	2/21/97	
0504	5	4	68	85	51	68	71.93	65.38	2/21/97	
0505	5	5	68	85	68	85	77.14	84.60	2/21/97	
0506	5	6	68	85	85	102	83.97	93.12	2/24/97	(1306)
0507	5	7	68	85	102	119	80.13	116.45	2/24/97	
0508	5	8	68	85	119	136	75.86	122.83	2/24/97	
0509	5	9	68	85	136	153	83.20	141.81	2/24/97	
0510	5	10	68	85	153	170	84.28	163.47	2/24/97	
0511	5	11	68	85	170	187	79.84	185.00	2/24/97	
0512	5	12	68	85	187	200	70.26	196.78	2/24/97	
0601	6	1	85	102	0	17	93.96	12.35	2/24/97	(1308)
0602	6	2	85	102	17	34	97.47	24.74	2/24/97	
0603	6	3	85	102	34	51	92.18	47.37	2/24/97	
0604	6	4	85	102	51	68	96.42	66.24	2/24/97	
0605	6	5	85	102	68	85	99.63	73.67	2/24/97	
0606	6	6	85	102	85	102	92.80	99.16	2/24/97	
0607	6	7	85	102	102	119	99.40	114.81	2/24/97	
0608	6	8	85	102	119	136	95.10	123.35	2/24/97	
0609	6	9	85	102	136	153	86.79	136.41	2/24/97	(1307)
0610	6	10	85	102	153	170	89.21	164.34	2/24/97	
0611	6	11	85	102	170	187	91.21	177.18	2/24/97	
0612	6	12	85	119	187	200	112.16	188.18	2/24/97	MS/MSD
0701	7	1	102	119	0	17	112.19	8.96	2/24/97	
0702	7	2	102	119	17	34	111.08	18.28	2/24/97	
0703	7	3	102	119	34	51	114.60	46.30	2/24/97	
0704	7	4	102	119	51	68	107.92	51.76	2/24/97	
0705	7	5	102	119	68	85	112.31	77.60	2/24/97	
0706	7	6	102	119	85	102	116.60	101.48	2/25/97	MS/MSD
0707	7	7	102	119	102	119	102.76	112.38	2/25/97	(1309)
0708	7	8	102	119	119	136	106.35	122.76	2/25/97	
0709	7	9	102	119	136	153	108.23	137.73	2/25/97	
0710	7	10	102	119	153	170	104.46	164.46	2/25/97	
0711	7	11	102	119	170	187	109.42	180.19	2/25/97	
0712	7	12	119	119	187	200	119.00	189.28	2/25/97	
0801	8	1	119	136	0	17	127.67	9.46	2/25/97	
0802	8	2	119	136	17	34	133.18	28.66	2/25/97	MS/MSD
0803	8	3	119	136	34	51	135.89	36.23	2/25/97	
0804	8	4	119	136	51	68	132.99	61.06	2/25/97	
0805	8	5	119	136	68	85	135.26	72.52	2/25/97	
0806	8	6	119	136	85	102	128.86	85.32	2/25/97	

Table 1
Randomly Generated Sampling Coordinates

Sample #	Grid ID		Maximum and Minimum Grid Coordinates				Random Coordinates		Sample	QA/QC
	Column	Row	X min	X max	Y min	Y max	x	y	Date	Samples
0807	8	7	119	136	102	119	130.02	114.18	2/25/97	
0808	8	8	119	136	119	136	126.95	126.77	2/25/97	
0809	8	9	119	136	136	153	128.45	151.07	2/25/97	(1310)
0810	8	10	119	136	153	170	133.71	165.04	2/25/97	
0811	8	11	119	136	170	187	120.69	185.70	2/25/97	
0812	8	12	119	136	187	200	120.83	195.39	2/25/97	
0901	9	1	136	153	0	17	136.31	0.61	2/25/97	
0902	9	2	136	153	17	34	137.10	30.26	2/25/97	(1311)
0903	9	3	136	153	34	51	150.26	46.17	2/25/97	
0904	9	4	136	153	51	68	138.67	66.66	2/26/97	
0905	9	5	136	153	68	85	144.86	82.40	2/26/97	
0906	9	6	136	153	85	102	137.57	88.31	2/26/97	
0907	9	7	136	153	102	119	146.30	112.04	2/26/97	
0908	9	8	136	153	119	136	145.60	134.79	2/26/97	
0909	9	9	136	153	136	153	140.37	152.84	2/26/97	
0910	9	10	136	153	153	170	150.47	157.74	2/26/97	
0911	9	11	136	153	170	187	152.85	180.33	2/26/97	
0912	9	12	136	153	187	200	152.93	188.08	2/26/97	(1312)
1001	10	1	153	170	0	17	154.94	4.44	2/20/97	
1002	10	2	153	170	17	34	159.04	22.99	2/20/97	
1003	10	3	153	170	34	51	156.83	49.24	2/26/97	(1313)
1004	10	4	153	170	51	68	163.82	55.55	2/26/97	
1005	10	5	153	170	68	85	168.14	69.56	2/26/97	
1006	10	6	153	170	85	102	153.18	94.25	2/26/97	
1007	10	7	153	170	102	119	165.37	105.85	2/26/97	
1008	10	8	153	170	119	136	161.61	125.96	2/26/97	
1009	10	9	153	170	136	153	162.09	146.04	2/26/97	MS/MSD
1010	10	10	153	170	153	170	160.14	157.70	2/26/97	
1011	10	11	153	170	170	187	156.46	186.34	2/26/97	
1012	10	12	153	170	187	200	168.35	197.84	2/26/97	
1101	11	1	170	187	0	17	185.01	6.48	2/26/97	
1102	11	2	170	187	17	34	182.74	25.13	2/26/97	
1103	11	3	170	187	34	51	186.70	47.43	2/26/97	
1104	11	4	170	187	51	68	181.44	58.96	2/26/97	
1105	11	5	170	187	68	85	178.01	77.60	2/26/97	
1106	11	6	170	187	85	102	185.67	93.81	2/26/97	
1107	11	7	170	187	102	119	185.20	104.99	2/26/97	
1108	11	8	170	187	119	136	181.45	121.48	2/26/97	(1314)
1109	11	9	170	187	136	153	170.75	141.46	2/27/97	
1110	11	10	170	187	153	170	179.05	154.93	2/27/97	
1111	11	11	170	187	170	187	181.83	180.41	2/27/97	
1112	11	12	170	187	187	200	175.15	199.18	2/27/97	
1201	12	1	187	200	0	17	190.13	13.96	2/27/97	
1202	12	2	187	200	17	34	196.99	27.82	2/27/97	
1203	12	3	187	200	34	51	196.36	37.72	2/27/97	

Table 1
Randomly Generated Sampling Coordinates

Sample #	Grid ID		Maximum and Minimum Grid Coordinates				Random Coordinates		Sample	QA/QC
	Column	Row	X min	X max	Y min	Y max	x	y	Date	Samples
1204	12	4	187	200	51	68	196.45	65.21	2/27/97	
1205	12	5	187	200	68	85	199.23	80.99	2/27/97	
1206	12	6	187	200	85	102	190.07	91.54	2/27/97	
1207	12	7	187	200	102	119	197.55	107.05	2/27/97	(1315)
1208	12	8	187	200	119	136	199.69	133.56	2/27/97	
1209	12	9	187	200	136	153	199.49	141.54	2/27/97	
1210	12	10	187	200	153	170	192.33	168.23	2/27/97	
1211	12	11	187	200	170	187	196.72	184.04	2/27/97	MS/MSD
1212	12	12	187	200	187	200	188.85	187.04	2/27/97	
Sample ID					Equipment/Field Blanks					
EB022097									2/20/97	EQB
EBO22197									2/21/97	EQB
EB022497									2/24/97	EQB
EB022597									2/25/97	EQB
EB022697									2/26/97	EQB
EB022797									2/27/97	EQB
FB022197	Collected at sample location 0505								2/21/97	FLB

Notes: * - No concrete samples to be collected due to removal of all concrete from this grid cell.

(1315) indicates sample ID for duplicate sample collected at this location.

EQB indicates equipment blank rinsate sample collected at this location.

FLB indicates fielb blank sample collected at this location.

MS/MSD indicates matrix spike/matrix spike duplicate sample collected at this location.

X and Y are randomly generated sampling coordinates calculated based on the following equation:

$$X = Xmin + ((Xmax - Xmin) * RND)$$

$$Y = Ymin + ((Ymax - Ymin) * RND)$$

Where:

RND is a randomly gererated number between 0 and 1;

Xmin and Ymin are minimum X and Y coordinates for given grid cell; and

Xmax and Ymax are maximum X and Y coordinates for given grid cell.

3.0 RESULTS

The results of the concrete floor sampling program are presented in Table 2. Aroclor 1254 was the only Aroclor detected in the samples. PCBs were detected in all of the concrete floor samples collected with concentrations ranging from 0.036 ppm to 130 ppm. PCBs were detected above the 10 ppm clean-up goal in three of the samples, DV12CF0103 at 30 ppm, DV12CF0104 at 130 ppm, and DV12CF0206 at 23 ppm.

All samples were analyzed in strict accordance with EPA SW846 Method 8080. All laboratory analysis were performed by MITKEM Corporation, Warwick, Rhode Island. The laboratory which was identified in the Site 12 SAP (National Environmental Testing, Inc. (NET), Cambridge Division, of Bedford, MA) went out of business and could not be utilized. MITKEM is a Rhode Island certified laboratory.

A Tier II data validation was performed on all sample results and data qualifiers resulting from the data validation are included in Table 2. The data validation indicated that all samples were considered acceptable for project use. The validation was performed in accordance with USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses, dated February 1, 1988, reviewed November 1, 1988. A copy of the data validation memos and forms are included in Appendix A. A copy of the full data packages are included in Attachment A.

Table 2
Site 12 Concrete Sampling Results

Sample Identification	Grid ID Column	Grid ID Row	Sample Date	PCBs Aroclor 1254 Result (ppm)	Q (1)
DV12CF0101	1	1	2/20/97	0.42	
DV12CF0102	1	2	2/20/97	5.3	J
DV12CF1301 (field dup. of 0102)	1	2	2/20/97	1.4	J
DV12CF0103	1	3	2/20/97	30	
DV12CF0104	1	4	2/20/97	130	
*	1	5	-	-	
*	1	6	-	-	
*	1	7	-	-	
*	1	8	-	-	
DV12CF0109	1	9	2/20/97	1.2	
DV12CF0110	1	10	2/20/97	1.5	
DV12CF0111	1	11	2/20/97	1.1	
DV12CF0112	1	12	2/20/97	0.94	
DV12CF0201	2	1	2/20/97	2.8	
DV12CF0202	2	2	2/20/97	0.45	
DV12CF0203	2	3	2/20/97	1.0	
DV12CF0204	2	4	2/20/97	2.2	
DV12CF0205	2	5	2/20/97	8.6	J
DV12CF0206	2	6	2/20/97	23	
*	2	7	*	-	
DV12CF0208	2	8	2/20/97	5.5	
DV12CF0209	2	9	2/20/97	3.9	J
DV12CF1302 (field dup. of 0209)	2	9	2/20/97	2.2	J
DV12CF0210	2	10	2/20/97	0.42	
DV12CF0211	2	11	2/20/97	0.48	
DV12CF0212	2	12	2/20/97	0.61	
DV12CF0301	3	1	2/20/97	0.25	
DV12CF0302	3	2	2/20/97	0.35	J
DV12CF0303	3	3	2/20/97	1.3	J
DV12CF1303 (field dup. of 0303)	3	3	2/20/97	0.74	J
DV12CF0304	3	4	2/20/97	2.5	
DV12CF0305	3	5	2/20/97	3.1	
DV12CF0306	3	6	2/20/97	8.1	
DV12CF0307	3	7	2/20/97	4.6	J
DV12CF0308	3	8	2/20/97	1.5	
DV12CF0309	3	9	2/21/97	3.8	J
DV12CF1304 (field dup. of 0309)	3	9	2/20/97	6.5	J
*	3	10	-	-	
DV12CF0311	3	11	2/21/97	0.57	
DV12CF0312	3	12	2/21/97	0.19	
DV12CF0401	4	1	2/21/97	0.098	
DV12CF0402	4	2	2/21/97	0.19	
DV12CF0403	4	3	2/21/97	1.5	

* indicates that the concrete within this grid was removed during prior remediation and was not sampled.

Table 2
Sit 12 Concret Sampling Results

Sample Identification	Grid ID Column	Grid ID Row	Sample Date	PCBs Aroclor 1254 Result (ppm)	Q (1)
DV12CF0404	4	4	2/21/97	4.9	
DV12CF1305 (field dup. of 0404)	4	4	2/21/97	6.8	
DV12CF0405	4	5	2/21/97	0.95	
DV12CF0406	4	6	2/21/97	1.9	
DV12CF0407	4	7	2/21/97	0.16	
DV12CF0408	4	8	2/21/97	4.8	
DV12CF0409	4	9	2/21/97	2.0	
DV12CF0410	4	10	2/21/97	0.21	
DV12CF0411	4	11	2/21/97	0.20	
DV12CF0412	4	12	2/21/97	0.67	
DV12CF0501	5	1	2/21/97	0.062	
DV12CF0502	5	2	2/21/97	0.76	
DV12CF0503	5	3	2/21/97	0.30	
DV12CF0504	5	4	2/21/97	1.4	
DV12CF0505	5	5	2/21/97	1.1	
DV12CF0506	5	6	2/24/97	0.52	J
DV12CF1306 (field dup. of 0506)	5	6	2/20/97	0.32	
DV12CF0507	5	7	2/24/97	0.66	
DV12CF0508	5	8	2/24/97	0.089	
DV12CF0509	5	9	2/24/97	0.44	J
DV12CF0510	5	10	2/24/97	0.15	
DV12CF0511	5	11	2/24/97	0.11	
DV12CF0512	5	12	2/24/97	1.2	
DV12CF0601	6	1	2/24/97	0.25	
DV12CF1308 (field dup. of 0601)	6	1	2/24/97	0.27	
DV12CF0602	6	2	2/24/97	0.21	
DV12CF0603	6	3	2/24/97	0.20	
DV12CF0604	6	4	2/24/97	0.59	
DV12CF0605	6	5	2/24/97	2.0	
DV12CF0606	6	6	2/24/97	0.46	
DV12CF0607	6	7	2/24/97	0.51	
DV12CF0608	6	8	2/24/97	1.4	
DV12CF0609	6	9	2/24/97	1.5	
DV12CF1307 (field dup. of 0609)	6	9	2/20/97	1.4	
DV12CF0610	6	10	2/24/97	0.18	
DV12CF0611	6	11	2/24/97	0.093	
DV12CF0612	6	12	2/24/97	0.11	
DV12CF0701	7	1	2/24/97	0.44	
DV12CF0702	7	2	2/24/97	0.11	
DV12CF0703	7	3	2/24/97	0.28	
DV12CF0704	7	4	2/24/97	1.4	
DV12CF0705	7	5	2/24/97	0.40	
DV12CF0706	7	6	2/25/97	0.27	

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Table 2
Site 12 Concrete Sampling Results

Sample Identification	Grid ID Column	Grid ID Row	Sample Date	PCBs Aroclor 1254 Result (ppm)	Q (1)
DV12CF0707	7	7	2/25/97	0.58	J
DV12CF1309 (field dup. of 0707)	7	7	2/25/97	0.25	J
DV12CF0708	7	8	2/25/97	1.0	J
DV12CF0709	7	9	2/25/97	1.9	J
DV12CF0710	7	10	2/25/97	0.42	J
DV12CF0711	7	11	2/25/97	0.14	
DV12CF0712	7	12	2/25/97	0.079	
DV12CF0801	8	1	2/25/97	0.091	
DV12CF0802	8	2	2/25/97	0.16	
DV12CF0803	8	3	2/25/97	0.21	
DV12CF0804	8	4	2/25/97	0.95	J
DV12CF0805	8	5	2/25/97	0.15	
DV12CF0806	8	6	2/25/97	0.22	
DV12CF0807	8	7	2/25/97	0.34	
DV12CF0808	8	8	2/25/97	0.30	
DV12CF0809	8	9	2/25/97	0.28	J
DV12CF1310 (field dup. of 0809)	8	9	2/25/97	0.23	J
DV12CF0810	8	10	2/25/97	0.11	
DV12CF0811	8	11	2/25/97	0.29	J
DV12CF0812	8	12	2/25/97	0.087	
DV12CF0901	9	1	2/25/97	0.072	
DV12CF0902	9	2	2/25/97	0.22	J
DV12CF1311 (field dup. of 0902)	9	2	2/25/97	0.33	J
DV12CF0903	9	3	2/25/97	0.34	J
DV12CF0904	9	4	2/26/97	0.67	
DV12CF0905	9	5	2/26/97	0.12	
DV12CF0906	9	6	2/26/97	0.28	
DV12CF0907	9	7	2/26/97	0.32	
DV12CF0908	9	8	2/26/97	0.56	
DV12CF0909	9	9	2/26/97	0.24	
DV12CF0910	9	10	2/26/97	0.55	
DV12CF0911	9	11	2/26/97	0.082	
DV12CF0912	9	12	2/26/97	0.30	J
DV12CF1312 (field dup. of 0912)	9	12	2/26/97	0.15	J
DV12CF1001	10	1	2/20/97	0.036	
DV12CF1002	10	2	2/20/97	0.46	
DV12CF1003	10	3	2/26/97	0.24	
DV12CF1313 (field dup. of 1003)	10	3	2/26/97	0.28	
DV12CF1004	10	4	2/26/97	0.74	
DV12CF1005	10	5	2/26/97	0.26	J
DV12CF1006	10	6	2/26/97	0.80	
DV12CF1007	10	7	2/26/97	0.20	

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Table 2
Sit 12 Concrete Sampling Results

Sample Identification	Grid ID Column	Grid ID Row	Sample Date	PCBs Aroclor 1254 Result (ppm)	Q (1)
DV12CF1008	10	8	2/26/97	0.38	
DV12CF1009	10	9	2/26/97	1.1	
DV12CF1010	10	10	2/26/97	0.13	
DV12CF1011	10	11	2/26/97	0.11	
DV12CF1012	10	12	2/26/97	0.036	
DV12CF1101	11	1	2/26/97	0.040	
DV12CF1102	11	2	2/26/97	0.067	
DV12CF1103	11	3	2/26/97	0.17	
DV12CF1104	11	4	2/26/97	0.18	
DV12CF1105	11	5	2/26/97	0.13	
DV12CF1106	11	6	2/26/97	0.12	
DV12CF1107	11	7	2/26/97	0.091	
DV12CF1108	11	8	2/26/97	0.15	J
DV12CF1314 (field dup. of 1108)	11	8	2/26/97	0.60	J
DV12CF1109	11	9	2/27/97	0.60	J
DV12CF1110	11	10	2/27/97	0.26	J
DV12CF1111	11	11	2/27/97	0.13	
DV12CF1112	11	12	2/27/97	0.27	J
DV12CF1201	12	1	2/27/97	0.13	J
DV12CF1202	12	2	2/27/97	0.081	
DV12CF1203	12	3	2/27/97	0.32	J
DV12CF1204	12	4	2/27/97	0.70	J
DV12CF1205	12	5	2/27/97	0.54	J
DV12CF1206	12	6	2/27/97	1.0	
DV12CF1207	12	7	2/27/97	0.25	J
DV12CF1315 (field dup. of 1207)	12	7	2/27/97	0.43	J
DV12CF1208	12	8	2/27/97	0.19	J
DV12CF1209	12	9	2/27/97	0.62	J
DV12CF1210	12	10	2/27/97	0.51	J
DV12CF1211	12	11	2/27/97	0.39	J
DV12CF1212	12	12	2/27/97	0.094	
EB022097	-	-	2/20/97	0.001	U
EB022197	-	-	2/21/97	0.001	U
EB022497	-	-	2/24/97	0.001	U
EB022597	-	-	2/25/97	0.001	U
EB022697	-	-	2/26/97	0.001	U
EB022797	-	-	2/27/97	0.001	U
FB022497	-	-	2/24/97	0.001	U

Note 1. Data Qualifier Column Definitions are; J = estimated value based on data validation. U = undetected at concentration indicated.

* indicates that the concrete within this grid was removed during prior remediation and was not sampled.