

SCS ENGINEERS

June 4, 2004
File No. 0220070.27

PROJECT

Mr. Kevin Santee, CIH
U.S. General Services Administration
1500 E. Bannister Road
Room 2101
Kansas City, Missouri 64131-3088

**SUBJECT: SITE INVESTIGATION, ST. LOUIS FEDERAL CENTER, BUILDING
103, 103 D, and 103 E, 4300 GOODFELLOW, ST. LOUIS, MISSOURI**

Dear Mr. Santee:

SCS Engineers (SCS) is pleased to submit two copies of the attached Interim Site Investigation Report for the above referenced facility.

If there are any questions regarding this letter or the attached documents, please don't hesitate to contact us at (816) 941-7510.

Sincerely,

(b) (6)

Jarrett Domling
Staff Scientist

(b) (6)

David E. Brewer, P.G.
Project Manager
SCS ENGINEERS

Attachments



TABLE 1 - RESULTS OF SAMPLING ANALYSIS FOR SOIL BORINGS

SAMPLE NUMBER		SB10	SB11	SB18	SB19	SB20	SB28	STCs
SAMPLE DATE		12/16/2003	12/16/2003	12/17/2003	12/17/2003	12/17/2003	12/17/2003	EXPOSURE
LAB ID NUMBER		223146-6	223146-7	223218-1	223218-2	223218-3	223218-11	SCENARIO A
PARAMETER	UNITS							
PCBs (8082)								
Aroclor 1016	ug/Kg	NA	NA	ND	ND	ND	ND	0.6 mg/Kg
Aroclor 1221	ug/Kg	NA	NA	ND	ND	ND	ND	0.6 mg/Kg
Aroclor 1232	ug/Kg	NA	NA	ND	ND	ND	ND	0.6 mg/Kg
Aroclor 1242	ug/Kg	NA	NA	ND	ND	ND	ND	0.6 mg/Kg
Aroclor 1248	ug/Kg	NA	NA	ND	ND	ND	ND	0.6 mg/Kg
Aroclor 1254	ug/Kg	NA	NA	ND	ND	ND	ND	0.6 mg/Kg
Aroclor 1260	ug/Kg	NA	NA	ND	ND	ND	ND	0.6 mg/Kg
EXPLOSIVES (8330)								
HMX	ug/Kg	ND	ND	ND	ND	NA	ND	3500 mg/Kg
RDX	ug/Kg	ND	ND	ND	ND	NA	ND	15 mg/Kg
1,3,5-Trinitrobenzene	ug/Kg	ND	ND	ND	ND	NA	ND	2100 mg/Kg
1,3-Dinitrobenzene	ug/Kg	ND	ND	ND	ND	NA	ND	7 mg/Kg
Nitrobenzene	ug/Kg	ND	ND	ND	ND	NA	ND	12 mg/Kg
2,4,6-TNT	ug/Kg	ND	ND	ND	ND	NA	ND	35 mg/Kg
Tetryl	ug/Kg	ND	ND	ND	ND	NA	ND	NT
2,4-Dinitrotoluene	ug/Kg	ND	ND	ND	ND	NA	ND	2 mg/Kg
2,6-Dinitrotoluene	ug/Kg	ND	ND	ND	ND	NA	ND	2 mg/Kg
2-Amino-4,6-Dinitrotoluene	ug/Kg	ND	ND	ND	ND	NA	ND	NT
4-Amino-2,6-Dinitrotoluene	ug/Kg	ND	ND	ND	ND	NA	ND	NT
2-Nitrotoluene	ug/Kg	ND	ND	ND	ND	NA	ND	NT
4-Nitrotoluene	ug/Kg	ND	ND	ND	ND	NA	ND	NT
3-Nitrotoluene	ug/Kg	ND	ND	ND	ND	NA	ND	NT
MERCURY (7471A)								
Mercury	mg/Kg	0.024	0.0047	0.032	0.035	0.035	0.025	0.6 mg/Kg
METALS (6010B)								
Aluminum	mg/Kg	11000	6400	14000	15000	14000	4800	NT
Antimony	mg/Kg	ND	ND	ND	ND	ND	ND	85 mg/Kg
Arsenic	mg/Kg	3.8	3.7	5.5	4.4	9.2	3.4	11 mg/Kg
Barium	mg/Kg	44	59	100	240	170	58	14000 mg/Kg
Beryllium	mg/Kg	0.67	0.53	0.86	0.71	0.97	0.42	0.05 mg/Kg
Cadmium	mg/Kg	ND	ND	ND	ND	ND	ND	110 mg/Kg
Calcium	mg/Kg	2200	23000	1800	2600	7900	17000	NT
Chromium	mg/Kg	16	18	21	24	19	9.7	2100 mg/Kg
Cobalt	mg/Kg	4.1	4	5.1	7.4	8.5	4.3	NT
Copper	mg/Kg	9.5	8.4	12	15	18	9.1	1100 mg/Kg
Iron	mg/Kg	12000	9100	17000	18000	21000	8700	NT
Lead	mg/Kg	7	19	7.3	8	13	14	260 mg/Kg
Magnesium	mg/Kg	1700	1700	2500	3100	3200	3800	NT
Manganese	mg/Kg	170	210	260	1100	760	240	3700 mg/Kg
Nickel	mg/Kg	9.3	9.1	14	21	23	11	4800 mg/Kg
Potassium	mg/Kg	390	550	800	1300	1200	510	NT
Selenium	mg/Kg	ND	ND	ND	ND	0.48	ND	300 mg/Kg
Silver	mg/Kg	ND	ND	ND	ND	ND	ND	140 mg/Kg
Sodium	mg/Kg	120	390	220	430	690	260	NT
Thallium	mg/Kg	ND	ND	ND	ND	ND	ND	17 mg/Kg
Vanadium	mg/Kg	26	17	32	27	37	13	1500 mg/Kg
Zinc	mg/Kg	24	30	34	52	54	30	38000 mg/Kg

TABLE 1 - RESULTS OF SAMPLING ANALYSIS FOR SOIL BORINGS (CONTINUED)

SAMPLE NUMBER		SB10	SB11	SB18	SB19	SB20	SB28	STCs
SAMPLE DATE		12/16/2003	12/16/2003	12/17/2003	12/17/2003	12/17/2003	12/17/2003	EXPOSURE
LAB ID NUMBER		223146-6	223146-7	223218-1	223218-2	223218-3	223218-11	SCENARIO A
PARAMETER	UNITS							
VOCs (8260B)								
Dichlorodifluoromethane	ug/Kg					ND		NT
Chloromethane	ug/Kg					ND		NT
Vinyl chloride	ug/Kg					ND		0.3 mg/Kg
Bromomethane	ug/Kg					ND		NT
Chloroethane	ug/Kg					ND		NT
Trichlorofluoromethane	ug/Kg					ND		770 mg/Kg
1,1-Dichloroethene	ug/Kg					ND		NT
Carbon disulfide	ug/Kg					ND		630 mg/Kg
Acetone	ug/Kg					130		2700 mg/Kg
Methylene chloride	ug/Kg					ND		51 mg/Kg
trans-1,2-Dichloroethene	ug/Kg					ND		NT
Methyl-tert-butyl-ether	ug/Kg					ND		8760 mg/Kg
1,1-Dichloroethane	ug/Kg					ND		NT
2,2-Dichloropropane	ug/Kg					ND		NT
cis-1,2-Dichloroethene	ug/Kg					ND		NT
2-Butanone	ug/Kg					ND		NT
Bromochloromethane	ug/Kg					ND		11 mg/Kg
Chloroform	ug/Kg					ND		0.8 mg/Kg
1,1,1-Trichloroethane	ug/Kg					ND		1200 mg/Kg
1,1-Dichloropropene	ug/Kg					ND		NT
Carbon Tetrachloride	ug/Kg					ND		2 mg/Kg
Benzene	ug/Kg					ND		6 mg/Kg
1,2-Dichloroethane	ug/Kg					ND		2 mg/Kg
Trichloroethene	ug/Kg					ND		NT
1,2-Dichloropropane	ug/Kg					ND		10 mg/Kg
Dibromomethane	ug/Kg					ND		NT
Bromodichloromethane	ug/Kg					ND		11 mg/Kg
cis-1,3-Dichloropropene	ug/Kg					ND		NT
4-Methyl-2-pentanone	ug/Kg					ND		NT
Toluene	ug/Kg					ND		650 mg/Kg
trans-1,3-Dichloropropene	ug/Kg					ND		NT
1,1,2-Trichloroethane	ug/Kg					ND		5 mg/Kg
Tetrachloroethene	ug/Kg					ND		NT
1,3-Dichloropropane	ug/Kg					ND		NT
2-Hexanone	ug/Kg					ND		NT
Dibromochloromethane	ug/Kg					ND		20 mg/Kg
1,2-Dibromoethane	ug/Kg					ND		NT
Chlorobenzene	ug/Kg					ND		66 mg/Kg
1,1,1,2-Tetrachloroethane	ug/Kg					ND		10 mg/Kg
Ethylbenzene	ug/Kg					ND		400 mg/Kg
m&p Xylenes	ug/Kg					ND		NT
o-xylene	ug/Kg					ND		NT
Styrene	ug/Kg					ND		1500 mg/Kg
Bromoform	ug/Kg					ND		140 mg/Kg
Isopropylbenzene	ug/Kg					ND		210 mg/Kg
Bromobenzene	ug/Kg					ND		NT
1,1,2,2-Tetrachloroethane	ug/Kg					41		2 mg/Kg

TABLE 1 - RESULTS OF SAMPLING ANALYSIS FOR SOIL BORINGS (CONTINUED)

SAMPLE NUMBER		SB10	SB11	SB18	SB19	SB20	SB28	STCs
SAMPLE DATE		12/16/2003	12/16/2003	12/17/2003	12/17/2003	12/17/2003	12/17/2003	EXPOSURE
LAB ID NUMBER		223146-6	223146-7	223218-1	223218-2	223218-3	223218-11	SCENARIO A
PARAMETER	UNITS							
VOCs (8260B)								
1,2,3-Trichloropropane	ug/Kg					ND		0.09 mg/Kg
n-Propylbenzene	ug/Kg					ND		28 mg/Kg
2-Chlorotoluene	ug/Kg					ND		NT
1,3,5-Trimethylbenzene	ug/Kg					ND		42 mg/Kg
4-Chlorotoluene	ug/Kg					ND		NT
tert-Butylbenzene	ug/Kg					ND		NT
1,2,4-Trimethylbenzene	ug/Kg					ND		100 mg/Kg
sec-Butylbenzene	ug/Kg					ND		NT
p-Isopropyltoluene	ug/Kg					ND		NT
n-Butylbenzene	ug/Kg					ND		NT
1,2-Dibromo-3-chloropropane	ug/Kg					ND		1 mg/Kg
1,2,3-Trichlorobenzene	ug/Kg					ND		NT

TABLE 1 - RESULTS OF SAMPLING ANALYSIS FOR SOIL BORINGS (CONTINUED)

SAMPLE NUMBER		SB29	SB30	SB31	SB32	SB33	SB34	STCs
SAMPLE DATE		12/17/2003	12/17/2003	12/17/2003	12/17/2003	12/17/2003	12/17/2003	EXPOSURE
LAB ID NUMBER		223218-12	223218-13	223218-14	223218-15	223218-16	223218-17	SCENARIO A
PARAMETER	UNITS							
PCBs (8082)								
Aroclor 1016	ug/Kg	ND	ND	ND	ND	ND	ND	0.6 mg/Kg
Aroclor 1221	ug/Kg	ND	ND	ND	ND	ND	ND	0.6 mg/Kg
Aroclor 1232	ug/Kg	ND	ND	ND	ND	ND	ND	0.6 mg/Kg
Aroclor 1242	ug/Kg	ND	ND	ND	ND	ND	ND	0.6 mg/Kg
Aroclor 1248	ug/Kg	ND	ND	ND	ND	ND	ND	0.6 mg/Kg
Aroclor 1254	ug/Kg	ND	ND	ND	ND	ND	ND	0.6 mg/Kg
Aroclor 1260	ug/Kg	ND	ND	ND	ND	ND	ND	0.6 mg/Kg
EXPLOSIVES (8330)								
HMX	ug/Kg	ND	ND	ND	ND	ND	ND	3500 mg/Kg
RDX	ug/Kg	ND	ND	ND	ND	ND	ND	15 mg/Kg
1,3,5-Trinitrobenzene	ug/Kg	ND	ND	ND	ND	ND	ND	2100 mg/Kg
1,3-Dinitrobenzene	ug/Kg	ND	ND	ND	ND	ND	ND	7 mg/Kg
Nitrobenzene	ug/Kg	ND	ND	ND	ND	ND	ND	12 mg/Kg
2,4,6-TNT	ug/Kg	ND	ND	ND	ND	ND	ND	35 mg/Kg
Tetryl	ug/Kg	ND	ND	ND	ND	ND	ND	NT
2,4-Dinitrotoluene	ug/Kg	ND	ND	ND	ND	ND	ND	2 mg/Kg
2,6-Dinitrotoluene	ug/Kg	ND	ND	ND	ND	ND	ND	2 mg/Kg
2-Amino-4,6-Dinitrotoluene	ug/Kg	ND	ND	ND	ND	ND	ND	NT
4-Amino-2,6-Dinitrotoluene	ug/Kg	ND	ND	ND	ND	ND	ND	NT
2-Nitrotoluene	ug/Kg	ND	ND	ND	ND	ND	ND	NT
4-Nitrotoluene	ug/Kg	ND	ND	ND	ND	ND	ND	NT
3-Nitrotoluene	ug/Kg	ND	ND	ND	ND	ND	ND	NT
MERCURY (7471A)								
Mercury	mg/Kg	0.038	0.029	0.033	0.0068	0.011	0.024	0.6 mg/Kg
METALS (6010B)								
Aluminum	mg/Kg	19000	15000	12000	17000	14000	11000	NT
Antimony	mg/Kg	ND	ND	ND	ND	ND	ND	85 mg/Kg
Arsenic	mg/Kg	3.1	7.1	4.3	2.9	5.7	7.2	11 mg/Kg
Barium	mg/Kg	74	62	57	110	140	150	14000 mg/Kg
Beryllium	mg/Kg	0.91	0.88	0.66	0.77	2	0.88	0.05 mg/Kg
Cadmium	mg/Kg	ND	ND	ND	ND	0.23	0.18	110 mg/Kg
Calcium	mg/Kg	3300	2600	1600	2700	2400	8300	NT
Chromium	mg/Kg	23	21	16	17	26	19	2100 mg/Kg
Cobalt	mg/Kg	4	2.5	4.1	20	53	7.6	NT
Copper	mg/Kg	9.8	11	8.6	12	74	33	1100 mg/Kg
Iron	mg/Kg	15000	20000	15000	13000	65000	17000	NT
Lead	mg/Kg	8.3	7.3	13	10	8.5	110	260 mg/Kg
Magnesium	mg/Kg	2700	2200	1300	1900	4300	3400	NT
Manganese	mg/Kg	61	57	100	650	330	900	3700 mg/Kg
Nickel	mg/Kg	17	14	7.9	9.4	88	19	4800 mg/Kg
Potassium	mg/Kg	700	560	470	700	1300	1200	NT
Selenium	mg/Kg	ND	ND	ND	ND	ND	ND	300 mg/Kg
Silver	mg/Kg	ND	ND	ND	ND	ND	ND	140 mg/Kg
Sodium	mg/Kg	150	180	150	230	ND	210	NT
Thallium	mg/Kg	ND	ND	ND	ND	ND	ND	17 mg/Kg
Vanadium	mg/Kg	24	34	34	26	48	32	1500 mg/Kg
Zinc	mg/Kg	27	27	17	23	150	73	38000 mg/Kg

TABLE 1 - RESULTS OF SAMPLING ANALYSIS FOR SOIL BORINGS (CONTINUED)

SAMPLE NUMBER		SB29	SB30	SB31	SB32	SB33	SB34	STCs
SAMPLE DATE		12/17/2003	12/17/2003	12/17/2003	12/17/2003	12/17/2003	12/17/2003	EXPOSURE
LAB ID NUMBER		223218-12	223218-13	223218-14	223218-15	223218-16	223218-17	SCENARIO A
PARAMETER	UNITS							
VOCs (8260B)								
Dichlorodiflouromethane	ug/Kg						ND	NT
Chloromethane	ug/Kg						ND	NT
Vinyl chloride	ug/Kg						ND	0.3 mg/Kg
Bromomethane	ug/Kg						ND	NT
Chloroethane	ug/Kg						ND	NT
Trichloroflouromethane	ug/Kg						ND	770 mg/Kg
1,1-Dichloroethene	ug/Kg						ND	NT
Carbon disulfide	ug/Kg						ND	630 mg/Kg
Acetone	ug/Kg						9.8	2700 mg/Kg
Methylene chloride	ug/Kg						ND	51 mg/Kg
trans-1,2-Dichloroethene	ug/Kg						ND	NT
Methyl-tert-butyl-ether	ug/Kg						ND	8760 mg/Kg
1,1-Dichloroethane	ug/Kg						ND	NT
2,2-Dichloropropane	ug/Kg						ND	NT
cis-1,2-Dichloroethene	ug/Kg						ND	NT
2-Butanone	ug/Kg						ND	NT
Bromochloromethane	ug/Kg						ND	11 mg/Kg
Chloroform	ug/Kg						ND	0.8 mg/Kg
1,1,1-Trichloroethane	ug/Kg						ND	1200 mg/Kg
1,1-Dichloropropene	ug/Kg						ND	NT
Carbon Tetrachloride	ug/Kg						ND	2 mg/Kg
Benzene	ug/Kg						ND	6 mg/Kg
1,2-Dichloroethane	ug/Kg						ND	2 mg/Kg
Trichloroethene	ug/Kg						ND	NT
1,2-Dichloropropane	ug/Kg						ND	10 mg/Kg
Dibromomethane	ug/Kg						ND	NT
Bromodichloromethane	ug/Kg						ND	11 mg/Kg
cis-1,3-Dichloropropene	ug/Kg						ND	NT
4-Methyl-2-pentanone	ug/Kg						ND	NT
Toluene	ug/Kg						ND	650 mg/Kg
trans-1,3-Dichloropropene	ug/Kg						ND	NT
1,1,2-Trichloroethane	ug/Kg						ND	5 mg/Kg
Tetrachloroethene	ug/Kg						ND	NT
1,3-Dichloropropane	ug/Kg						ND	NT
2-Hexanone	ug/Kg						ND	NT
Dibromochloromethane	ug/Kg						ND	20 mg/Kg
1,2-Dibromoethane	ug/Kg						ND	NT
Chlorobenzene	ug/Kg						ND	66 mg/Kg
1,1,1,2-Tetrachloroethane	ug/Kg						ND	10 mg/Kg
Ethylbenzene	ug/Kg						ND	400 mg/Kg
m&p Xylenes	ug/Kg						ND	NT
o-xylene	ug/Kg						ND	NT
Styrene	ug/Kg						ND	1500 mg/Kg
Bromoform	ug/Kg						ND	140 mg/Kg
Isopropylbenzene	ug/Kg						ND	210 mg/Kg
Bromobenzene	ug/Kg						ND	NT
1,1,2,2-Tetrachloroethane	ug/Kg						ND	2 mg/Kg

TABLE 2 - RESULTS OF SOIL AND SEDIMENT SAMPLING ANALYSIS FOR BUILDING 103

SAMPLE NUMBER SAMPLE DATE LAB ID NUMBER		103CSSOIL1 7/23/2003 219204-6	103CSSOIL2 7/23/2003 219204-7	103CSSOIL3 7/23/2003 219204-9	103CSSOIL4 7/23/2003 21904-12			STCs EXPOSURE SCENARIO A
PARAMETER	UNITS							
PCBs (8082)								
Aroclor 1016	ug/Kg	ND	ND	ND	ND			0.6 mg/Kg
Aroclor 1221	ug/Kg	ND	ND	ND	ND			0.6 mg/Kg
Aroclor 1232	ug/Kg	ND	ND	ND	ND			0.6 mg/Kg
Aroclor 1242	ug/Kg	ND	ND	ND	ND			0.6 mg/Kg
Aroclor 1248	ug/Kg	ND	ND	ND	ND			0.6 mg/Kg
Aroclor 1254	ug/Kg	ND	ND	ND	ND			0.6 mg/Kg
Aroclor 1260	ug/Kg	ND	ND	ND	ND			0.6 mg/Kg
EXPLOSIVES (8330)								
HMX	ug/Kg	ND	ND	ND	ND			3500 mg/Kg
RDX	ug/Kg	ND	ND	ND	ND			15 mg/Kg
1,3,5-Trinitrobenzene	ug/Kg	ND	ND	ND	ND			2100 mg/Kg
1,3-Dinitrobenzene	ug/Kg	ND	ND	ND	ND			7 mg/Kg
Nitrobenzene	ug/Kg	ND	ND	ND	ND			12 mg/Kg
2,4,6-TNT	ug/Kg	ND	ND	ND	ND			35 mg/Kg
Tetryl	ug/Kg	ND	ND	ND	ND			NT
2,4-Dinitrotoluene	ug/Kg	ND	ND	ND	ND			2 mg/Kg
2,6-Dinitrotoluene	ug/Kg	ND	ND	ND	ND			2 mg/Kg
2-Amino-4,6-Dinitrotoluene	ug/Kg	ND	ND	ND	ND			NT
4-Amino-2,6-Dinitrotoluene	ug/Kg	ND	ND	ND	ND			NT
2-Nitrotoluene	ug/Kg	ND	ND	ND	ND			NT
4-Nitrotoluene	ug/Kg	ND	ND	ND	ND			NT
3-Nitrotoluene	ug/Kg	ND	ND	ND	ND			NT
MERCURY (7471A)								
Mercury	mg/Kg	0.12	0.37	0.067	0.071			0.6 mg/Kg
METALS (6010B)								
Aluminum	mg/Kg	17000	18000	14000	15000			NT
Antimony	mg/Kg	ND	ND	ND	ND			85 mg/Kg
Arsenic	mg/Kg	5.8	5.7	5.9	4.6			11 mg/Kg
Barium	mg/Kg	160	160	160	170			14000 mg/Kg
Beryllium	mg/Kg	1.2	1.3	0.47	1.1			0.05 mg/Kg
Cadmium	mg/Kg	0.43	0.43	0.25	0.47			110 mg/Kg
Calcium	mg/Kg	5200	5000	3300	8000			NT
Chromium	mg/Kg	27	31	20	29			2100 mg/Kg
Cobalt	mg/Kg	10	9.9	7	18			NT
Copper	mg/Kg	87	36	20	14			1100 mg/Kg
Iron	mg/Kg	21000	21000	18000	37000			NT
Lead	mg/Kg	21	34	31	32			260 mg/Kg
Magnesium	mg/Kg	3100	2900	3100	3700			NT
Manganese	mg/Kg	630	580	500	660			3700 mg/Kg
Nickel	mg/Kg	34	33	15	39			4800 mg/Kg
Potassium	mg/Kg	1300	1700	1200	1400			NT
Selenium	mg/Kg	0.48	ND	ND	ND			300 mg/Kg
Silver	mg/Kg	ND	ND	ND	ND			140 mg/Kg
Sodium	mg/Kg	180	500	210	690			NT
Thallium	mg/Kg	1.2	0.82	1.4	1.3			17 mg/Kg
Vanadium	mg/Kg	35	35	33	38			1500 mg/Kg
Zinc	mg/Kg	120	57	50	68			38000 mg/Kg

TABLE 2 - RESULTS OF SOIL AND SEDIMENT SAMPLING ANALYSIS FOR BUILDING 103 (CONTINUED)

SAMPLE NUMBER		103CSSOIL1	103CSSOIL2	103CSSOIL3	103CSSOIL4		STCs
SAMPLE DATE		7/23/2003	7/23/2003	7/23/2003	7/23/2003		EXPOSURE
LAB ID NUMBER		219204-6	219204-7	219204-9	21904-12		SCENARIO A
PARAMETER	UNITS						
CYANIDE (9014/9010B)							
Total Cyanide	mg/Kg	0.28	ND	ND	ND		5480 mg/Kg
PHOSPHOROUS (4500PE)							
Total Phosphorous	mg/Kg	25	130	32	250		NT
SVOCs (8270C)							
Phenol	ug/Kg	ND	ND	ND	ND		5200 mg/Kg
Bis (2-chloroethyl) ether	ug/Kg	ND	ND	ND	ND		0.5 mg/Kg
1,3-Dichlorobenzene	ug/Kg	ND	ND	ND	ND		NT
1,4-Dichlorobenzene	ug/Kg	ND	ND	ND	ND		17 mg/Kg
1,2-Dichlorobenzene	ug/Kg	ND	ND	ND	ND		600 mg/Kg
Benzyl alcohol	ug/Kg	ND	ND	ND	ND		NT
2-Methylphenol (o-cresol)	ug/Kg	ND	ND	ND	ND		3500 mg/Kg
2,2-oxybis (1-chloropropane)	ug/Kg	ND	ND	ND	ND		NT
n-Nitroso-di-n-propylamine	ug/Kg	ND	ND	ND	ND		NT
Hexachloroethane	ug/Kg	ND	ND	ND	ND		70 mg/Kg
4-Methylphenol	ug/Kg	ND	ND	ND	ND		250 mg/Kg
2-Chlorophenol	ug/Kg	ND	ND	ND	ND		140 mg/Kg
Nitrobenzene	ug/Kg	ND	ND	ND	ND		12 mg/Kg
Bis (2-chloroethoxy) methane	ug/Kg	ND	ND	ND	ND		NT
1,2,4-Trichlorobenzene	ug/Kg	ND	ND	ND	ND		270 mg/Kg
Benzoic acid	ug/Kg	ND	ND	ND	ND		280000 mg/Kg
Isophorone	ug/Kg	ND	ND	ND	ND		1700 mg/Kg
2,4-Dimethylphenol	ug/Kg	ND	ND	ND	ND		1400 mg/Kg
Hexachlorobutadiene	ug/Kg	ND	ND	ND	ND		14 mg/Kg
Napthalene	ug/Kg	24	ND	ND	ND		120 mg/Kg
2,4-Dichlorophenol	ug/Kg	ND	ND	ND	ND		210 mg/Kg
4-Chloroaniline	ug/Kg	ND	ND	ND	ND		NT
2,4,6-Trichlorophenol	ug/Kg	ND	ND	ND	ND		140 mg/Kg
2,4,5-Trichlorophenol	ug/Kg	ND	ND	ND	ND		7000 mg/Kg
Hexachlorocyclopentadiene	ug/Kg	ND	ND	ND	ND		9 mg/Kg
2-Methylnapthalene	ug/Kg	16	2.4	ND	ND		NT
2-Nitroaniline	ug/Kg	ND	ND	ND	ND		NT
2-Chloronapthalene	ug/Kg	ND	ND	ND	ND		NT
4-Chloro-3-methylphenol	ug/Kg	ND	ND	ND	ND		NT
2,6-Dinitrotoluene	ug/Kg	ND	ND	ND	ND		2 mg/Kg
2-Nitrophenol	ug/Kg	ND	ND	ND	ND		NT
3-Nitroaniline	ug/Kg	ND	ND	ND	ND		NT
Dimethyl phthalate	ug/Kg	ND	ND	ND	ND		1360 mg/Kg
2,4-Dinitrophenol	ug/Kg	ND	ND	ND	ND		140 mg/Kg
Acenaphthylene	ug/Kg	5.2	ND	ND	ND		NT
2,4-Dinitrotoluene	ug/Kg	ND	ND	ND	ND		2 mg/Kg
Acanaphthene	ug/Kg	11	11	ND	ND		1700 mg/Kg
Dibenzofuran	ug/Kg	32	6.2	ND	5.2		110 mg/Kg
4-Nitrophenol	ug/Kg	ND	ND	ND	ND		NT
Flourene	ug/Kg	8.7	8.7	ND	ND		1100 mg/Kg
4-Nitroaniline	ug/Kg	ND	ND	ND	ND		NT
4-Bromophenyl Phenyl ether	ug/Kg	ND	ND	ND	ND		150 mg/Kg
Hexachlorobenzene	ug/Kg	ND	ND	ND	ND		0.9 mg/Kg

TABLE 2 - RESULTS OF SOIL AND SEDIMENT SAMPLING ANALYSIS FOR BUILDING 103 (CONTINUED)

SAMPLE NUMBER		103CSSOIL1	103CSSOIL2	103CSSOIL3	103CSSOIL4			STCs
SAMPLE DATE		7/23/2003	7/23/2003	7/23/2003	7/23/2003			EXPOSURE
LAB ID NUMBER		219204-6	219204-7	219204-9	21904-12			SCENARIO A
PARAMETER	UNITS							
SVOCs (8270C)								
Diethyl phthalate	ug/Kg	ND	ND	ND	ND			2000 mg/Kg
4-Chlorophenyl phenyl ether	ug/Kg	ND	ND	ND	ND			NT
Pentachlorophenol	ug/Kg	ND	ND	ND	ND			6 mg/Kg
n-Nitrosodiphenylamine	ug/Kg	ND	ND	ND	ND			330 mg/Kg
4,6-Dinitro-2-methylphenol	ug/Kg	ND	ND	ND	ND			NT
Phenanthrene	ug/Kg	370	130	21	28			NT
Anthracene	ug/Kg	72	31	ND	6.5			8500 mg/Kg
Carbazole	ug/Kg	66	ND	ND	ND			82 mg/Kg
Di-n-butyl-phthalate	ug/Kg	88	110	96	95			NT
Benzidine	ug/Kg	ND	ND	ND	ND			0.01mg/Kg
Flouranthene	ug/Kg	1000	230	70	90			1600 mg/Kg
Pyrene	ug/Kg	650	140	47	59			2100 mg/Kg
Butly benzyl phthalate	ug/Kg	ND	ND	ND	ND			930 mg/Kg
Benzo(a)anthracene	ug/Kg	460	70	20	24			1 mg/Kg
Chrysene	ug/Kg	520	79	40	50			36 mg/Kg
3,3-Dichlorobenzidine	ug/Kg	ND	ND	ND	ND			4 mg/Kg
Bis(2-ethylhexyl) phthalate	ug/Kg	ND	ND	ND	ND			410 mg/Kg
Di-n-octyl phthalate	ug/Kg	ND	ND	ND	ND			0.3 mg/Kg
Benzo(b)flouranthene	ug/Kg	460	83	61	63			0.9 mg/Kg
Benzo(k)flouranthene	ug/Kg	500	38	10	13			8 mg/Kg
Benzo(a)pyrene	ug/Kg	380	61	ND	32			0.2 mg/Kg
Ideno(1,2,3-cd)pyrene	ug/Kg	250	19	ND	ND			3 mg/Kg
Dibenzo(a,h)anthracene	ug/Kg	68	ND	ND	ND			0.2 mg/Kg
Benzo(ghi)perylene	ug/Kg	250	6.4	ND	ND			NT
VOCs (8260B)								
Dichlorodiflouromethane	ug/Kg	ND	ND	ND	ND			NT
Chloromethane	ug/Kg	ND	ND	ND	ND			NT
Vinyl chloride	ug/Kg	ND	ND	ND	ND			0.3 mg/Kg
Bromomethane	ug/Kg	ND	ND	ND	ND			NT
Chloroethane	ug/Kg	ND	ND	ND	ND			NT
Trichloroflouromethane	ug/Kg	4.5	41	ND	6.5			770 mg/Kg
1,1-Dichloroethene	ug/Kg	ND	ND	ND	ND			NT
Carbon disulfide	ug/Kg	ND	ND	ND	ND			630 mg/Kg
Acetone	ug/Kg	ND	ND	ND	ND			2700 mg/Kg
Methylene chloride	ug/Kg	ND	ND	ND	ND			51 mg/Kg
trans-1,2-Dichloroethene	ug/Kg	ND	ND	ND	ND			NT
Methyl-tert-butyl-ether	ug/Kg	ND	ND	ND	ND			8760 mg/Kg
1,1-Dichloroethane	ug/Kg	ND	ND	ND	ND			NT
2,2-Dichloropropane	ug/Kg	ND	ND	ND	ND			NT
cis-1,2-Dichloroethene	ug/Kg	ND	ND	ND	ND			NT
2-Butanone	ug/Kg	ND	ND	ND	ND			NT
Bromochloromethane	ug/Kg	ND	ND	ND	ND			11 mg/Kg
Chloroform	ug/Kg	ND	ND	ND	ND			0.8 mg/Kg
1,1,1-Trichloroethane	ug/Kg	ND	ND	ND	ND			1200 mg/Kg
1,1-Dichloropropene	ug/Kg	ND	ND	ND	ND			NT
Carbon Tetrachloride	ug/Kg	ND	ND	ND	ND			2 mg/Kg
Benzene	ug/Kg	ND	ND	ND	ND			6 mg/Kg

TABLE 2 - RESULTS OF SOIL AND SEDIMENT SAMPLING ANALYSIS FOR BUILDING 103 (CONTINUED)

SAMPLE NUMBER		103CSSOIL1	103CSSOIL2	103CSSOIL3	103CSSOIL4			STCs
SAMPLE DATE		7/23/2003	7/23/2003	7/23/2003	7/23/2003			EXPOSURE
LAB ID NUMBER		219204-6	219204-7	219204-9	21904-12			SCENARIO A
PARAMETER	UNITS							
VOCs (8260B)								
1,2-Dichloroethane	ug/Kg	ND	ND	ND	ND			2 mg/Kg
Trichloroethene	ug/Kg	ND	ND	ND	ND			NT
1,2-Dichloropropane	ug/Kg	ND	ND	ND	ND			10 mg/Kg
Dibromomethane	ug/Kg	ND	ND	ND	ND			NT
Bromodichloromethane	ug/Kg	ND	ND	ND	ND			11 mg/Kg
cis-1,3-Dichloropropene	ug/Kg	ND	ND	ND	ND			NT
4-Methyl-2-pentanone	ug/Kg	ND	ND	ND	ND			NT
Toluene	ug/Kg	ND	ND	ND	ND			650 mg/Kg
trans-1,3-Dichloropropene	ug/Kg	ND	ND	ND	ND			NT
1,1,2-Trichloroethane	ug/Kg	ND	ND	ND	ND			5 mg/Kg
Tetrachloroethene	ug/Kg	ND	ND	ND	ND			NT
1,3-Dichloropropane	ug/Kg	ND	ND	ND	ND			NT
2-Hexanone	ug/Kg	ND	ND	ND	ND			NT
Dibromochloromethane	ug/Kg	ND	ND	ND	ND			20 mg/Kg
1,2-Dibromoethane	ug/Kg	ND	ND	ND	ND			NT
Chlorobenzene	ug/Kg	ND	ND	ND	ND			66 mg/Kg
1,1,1,2-Tetrachloroethane	ug/Kg	ND	ND	ND	ND			10 mg/Kg
Ethylbenzene	ug/Kg	ND	ND	ND	ND			400 mg/Kg
m&p Xylenes	ug/Kg	ND	ND	ND	ND			NT
o-xylene	ug/Kg	ND	ND	ND	ND			NT
Styrene	ug/Kg	ND	ND	ND	ND			1500 mg/Kg
Bromoform	ug/Kg	ND	ND	ND	ND			140 mg/Kg
Isopropylbenzene	ug/Kg	ND	ND	ND	ND			210 mg/Kg
Bromobenzene	ug/Kg	ND	ND	ND	ND			NT
1,1,2,2-Tetrachloroethane	ug/Kg	ND	ND	ND	ND			2 mg/Kg
1,2,3-Trichloropropane	ug/Kg	ND	ND	ND	ND			0.09 mg/Kg
n-Propylbenzene	ug/Kg	ND	ND	ND	ND			28 mg/Kg
2-Chlorotoluene	ug/Kg	ND	ND	ND	ND			NT
1,3,5-Trimethylbenzene	ug/Kg	ND	ND	ND	ND			42 mg/Kg
4-Chlorotoluene	ug/Kg	ND	ND	ND	ND			NT
tert-Butylbenzene	ug/Kg	ND	ND	ND	ND			NT
1,2,4-Trimethylbenzene	ug/Kg	ND	ND	ND	ND			100 mg/Kg
sec-Butylbenzene	ug/Kg	ND	ND	ND	ND			NT
p-Isopropyltoluene	ug/Kg	ND	ND	ND	ND			NT
n-Butylbenzene	ug/Kg	ND	ND	ND	ND			NT
1,2-Dibromo-3-chloropropane	ug/Kg	ND	ND	ND	ND			1 mg/Kg
1,2,3-Trichlorobenzene	ug/Kg	ND	ND	ND	ND			NT

TABLE 2 - RESULTS OF SOIL AND SEDIMENT SAMPLING ANALYSIS FOR BUILDING 103D (CONTINUED)

SAMPLE NUMBER		103DCSSS1	103DCSSS2				STCs
SAMPLE DATE		7/24/2003	7/24/2003				EXPOSURE
LAB ID NUMBER		219240-12	219240-14				SCENARIO A
PARAMETER	UNITS						
PCBs (8082)							
Aroclor 1016	ug/Kg	ND	ND				0.6 mg/Kg
Aroclor 1221	ug/Kg	ND	ND				0.6 mg/Kg
Aroclor 1232	ug/Kg	ND	ND				0.6 mg/Kg
Aroclor 1242	ug/Kg	ND	ND				0.6 mg/Kg
Aroclor 1248	ug/Kg	ND	ND				0.6 mg/Kg
Aroclor 1254	ug/Kg	ND	ND				0.6 mg/Kg
Aroclor 1260	ug/Kg	ND	ND				0.6 mg/Kg
EXPLOSIVES (8330)							
HMX	ug/Kg	ND	ND				3500 mg/Kg
RDX	ug/Kg	ND	ND				15 mg/Kg
1,3,5-Trinitrobenzene	ug/Kg	ND	ND				2100 mg/Kg
1,3-Dinitrobenzene	ug/Kg	ND	ND				7 mg/Kg
Nitrobenzene	ug/Kg	ND	ND				12 mg/Kg
2,4,6-TNT	ug/Kg	ND	ND				35 mg/Kg
Tetryl	ug/Kg	ND	ND				NT
2,4-Dinitrotoluene	ug/Kg	ND	ND				2 mg/Kg
2,6-Dinitrotoluene	ug/Kg	ND	ND				2 mg/Kg
2-Amino-4,6-Dinitrotoluene	ug/Kg	ND	ND				NT
4-Amino-2,6-Dinitrotoluene	ug/Kg	ND	ND				NT
2-Nitrotoluene	ug/Kg	ND	ND				NT
4-Nitrotoluene	ug/Kg	ND	ND				NT
3-Nitrotoluene	ug/Kg	ND	ND				NT
MERCURY (7471A)							
Mercury	mg/Kg	0.056	0.84				0.6 mg/Kg
METALS (6010B)							
Aluminum	mg/Kg	9600	9900				NT
Antimony	mg/Kg	ND	ND				85 mg/Kg
Arsenic	mg/Kg	5.9	4.6				11 mg/Kg
Barium	mg/Kg	67	88				14000 mg/Kg
Beryllium	mg/Kg	0.59	0.57				0.05 mg/Kg
Cadmium	mg/Kg	0.26	0.22				110 mg/Kg
Calcium	mg/Kg	3200	3400				NT
Chromium	mg/Kg	17	16				2100 mg/Kg
Cobalt	mg/Kg	7.7	4.7				NT
Copper	mg/Kg	11	13				1100 mg/Kg
Iron	mg/Kg	16000	14000				NT
Lead	mg/Kg	14	35				260 mg/Kg
Magnesium	mg/Kg	2600	2400				NT
Manganese	mg/Kg	620	270				3700 mg/Kg
Nickel	mg/Kg	19	9.9				4800 mg/Kg
Potassium	mg/Kg	540	570				NT
Selenium	mg/Kg	ND	ND				300 mg/Kg
Silver	mg/Kg	ND	ND				140 mg/Kg
Sodium	mg/Kg	600	280				NT
Thallium	mg/Kg	ND	ND				17 mg/Kg
Vanadium	mg/Kg	33	27				1500 mg/Kg
Zinc	mg/Kg	36	50				38000 mg/Kg

TABLE 2 - RESULTS OF SOIL AND SEDIMENT SAMPLING ANALYSIS FOR BUILDING 103D (CONTINUED)

SAMPLE NUMBER		103DCSSS1	103DCSSS2				STCs
SAMPLE DATE		7/24/2003	7/24/2003				EXPOSURE
LAB ID NUMBER		219240-12	219240-14				SCENARIO A
PARAMETER	UNITS						
CYANIDE (9014/9010B)							
Total Cyanide	mg/Kg	ND	ND				5480 mg/Kg
PHOSPHOROUS (4500PE)							
Total Phosphorous	mg/Kg	250	290				NT
SVOCs (8270C)							
Phenol	ug/Kg	ND	ND				5200 mg/Kg
Bis (2-chloroethyl) ether	ug/Kg	ND	ND				0.5 mg/Kg
1,3-Dichlorobenzene	ug/Kg	ND	ND				NT
1,4-Dichlorobenzene	ug/Kg	ND	ND				17 mg/Kg
1,2-Dichlorobenzene	ug/Kg	ND	ND				600 mg/Kg
Benzyl alcohol	ug/Kg	ND	ND				NT
2-Methylphenol (o-cresol)	ug/Kg	ND	ND				3500 mg/Kg
2,2-oxybis (1-chloropropane)	ug/Kg	ND	ND				NT
n-Nitroso-di-n-propylamine	ug/Kg	ND	ND				NT
Hexachloroethane	ug/Kg	ND	ND				70 mg/Kg
4-Methylphenol	ug/Kg	ND	ND				250 mg/Kg
2-Chlorophenol	ug/Kg	ND	ND				140 mg/Kg
Nitrobenzene	ug/Kg	ND	ND				12 mg/Kg
Bis (2-chloroethoxy) methane	ug/Kg	ND	ND				NT
1,2,4-Trichlorobenzene	ug/Kg	ND	ND				270 mg/Kg
Benzoic acid	ug/Kg	ND	ND				280000 mg/Kg
Isophorone	ug/Kg	ND	ND				1700 mg/Kg
2,4-Dimethylphenol	ug/Kg	ND	ND				1400 mg/Kg
Hexachlorobutadiene	ug/Kg	ND	ND				14 mg/Kg
Napthalene	ug/Kg	2.9	ND				120 mg/Kg
2,4-Dichlorophenol	ug/Kg	ND	ND				210 mg/Kg
4-Chloroaniline	ug/Kg	ND	ND				NT
2,4,6-Trichlorophenol	ug/Kg	ND	ND				140 mg/Kg
2,4,5-Trichlorophenol	ug/Kg	ND	ND				7000 mg/Kg
Hexachlorocyclopentadiene	ug/Kg	ND	ND				9 mg/Kg
2-Methylnapthalene	ug/Kg	2.6	ND				NT
2-Nitroaniline	ug/Kg	ND	ND				NT
2-Chloronapthalene	ug/Kg	ND	ND				NT
4-Chloro-3-methylphenol	ug/Kg	ND	ND				NT
2,6-Dinitrotoluene	ug/Kg	ND	ND				2 mg/Kg
2-Nitrophenol	ug/Kg	ND	ND				NT
3-Nitroaniline	ug/Kg	ND	ND				NT
Dimethyl phthalate	ug/Kg	ND	ND				1360 mg/Kg
2,4-Dinitrophenol	ug/Kg	ND	ND				140 mg/Kg
Acenaphthylene	ug/Kg	ND	ND				NT
2,4-Dinitrotoluene	ug/Kg	95	ND				2 mg/Kg
Acanaphthene	ug/Kg	ND	ND				1700 mg/Kg
Dibenzofuran	ug/Kg	5.1	ND				110 mg/Kg
4-Nitrophenol	ug/Kg	ND	ND				NT
Flourene	ug/Kg	ND	2.7				1100 mg/Kg
4-Nitroaniline	ug/Kg	ND	ND				NT
4-Bromophenyl Phenyl ether	ug/Kg	ND	ND				150 mg/Kg
Hexachlorobenzene	ug/Kg	ND	ND				0.9 mg/Kg

TABLE 2 - RESULTS OF SOIL AND SEDIMENT SAMPLING ANALYSIS FOR BUILDING 103D (CONTINUED)

SAMPLE NUMBER		103DCSSS1	103DCSSS2					STCs
SAMPLE DATE		7/24/2003	7/24/2003					EXPOSURE
LAB ID NUMBER		219240-12	219240-14					SCENARIO A
PARAMETER	UNITS							
SVOCs (8270C)								
Diethyl phthalate	ug/Kg	ND	ND					2000 mg/Kg
4-Chlorophenyl phenyl ether	ug/Kg	ND	ND					NT
Pentachlorophenol	ug/Kg	ND	ND					6 mg/Kg
n-Nitrosodiphenylamine	ug/Kg	11	100					330 mg/Kg
4,6-Dinitro-2-methylphenol	ug/Kg	ND	ND					NT
Phenanthrene	ug/Kg	15	59					NT
Anthracene	ug/Kg	3.7	12					8500 mg/Kg
Carbazole	ug/Kg	ND	ND					82 mg/Kg
Di-n-butyl-phthalate	ug/Kg	100	1300					NT
Benzidine	ug/Kg	ND	ND					0.01mg/Kg
Flouranthene	ug/Kg	36	150					1600 mg/Kg
Pyrene	ug/Kg	30	100					2100 mg/Kg
Butly benzyl phthalate	ug/Kg	ND	ND					930 mg/Kg
Benzo(a)anthracene	ug/Kg	12	43					1 mg/Kg
Chrysene	ug/Kg	47	77					36 mg/Kg
3,3-Dichlorobenzidine	ug/Kg	ND	ND					4 mg/Kg
Bis(2-ethylhexyl) phthalate	ug/Kg	15	27					410 mg/Kg
Di-n-octyl phthalate	ug/Kg	ND	ND					0.3 mg/Kg
Benzo(b)flouranthene	ug/Kg	66	81					0.9 mg/Kg
Benzo(k)flouranthene	ug/Kg	ND	56					8 mg/Kg
Benzo(a)pyrene	ug/Kg	17	60					0.2 mg/Kg
Ideno(1,2,3-cd)pyrene	ug/Kg	ND	19					3 mg/Kg
Dibenzo(a,h)anthracene	ug/Kg	ND	ND					0.2 mg/Kg
Benzo(ghi)perylene	ug/Kg	ND	ND					NT
VOCs (8260B)								
Dichlorodiflouromethane	ug/Kg	ND	ND					NT
Chloromethane	ug/Kg	ND	ND					NT
Vinyl chloride	ug/Kg	ND	ND					0.3 mg/Kg
Bromomethane	ug/Kg	ND	ND					NT
Chloroethane	ug/Kg	ND	ND					NT
Trichloroflouromethane	ug/Kg	ND	ND					770 mg/Kg
1,1-Dichloroethene	ug/Kg	ND	ND					NT
Carbon disulfide	ug/Kg	ND	ND					630 mg/Kg
Acetone	ug/Kg	52	31					2700 mg/Kg
Methylene chloride	ug/Kg	ND	ND					51 mg/Kg
trans-1,2-Dichloroethene	ug/Kg	ND	ND					NT
Methyl-tert-butyl-ether	ug/Kg	ND	ND					8760 mg/Kg
1,1-Dichloroethane	ug/Kg	ND	ND					NT
2,2-Dichloropropane	ug/Kg	ND	ND					NT
cis-1,2-Dichloroethene	ug/Kg	ND	ND					NT
2-Butanone	ug/Kg	ND	ND					NT
Bromochloromethane	ug/Kg	ND	ND					11 mg/Kg
Chloroform	ug/Kg	ND	ND					0.8 mg/Kg
1,1,1-Trichloroethane	ug/Kg	ND	ND					1200 mg/Kg
1,1-Dichloropropene	ug/Kg	ND	ND					NT
Carbon Tetrachloride	ug/Kg	ND	ND					2 mg/Kg
Benzene	ug/Kg	ND	ND					6 mg/Kg

TABLE 2 - RESULTS OF SOIL AND SEDIMENT SAMPLING ANALYSIS FOR BUILDING 103D (CONTINUED)

SAMPLE NUMBER		103DCSSS1	103DCSSS2					STCs
SAMPLE DATE		7/24/2003	7/24/2003					EXPOSURE
LAB ID NUMBER		219240-12	219240-14					SCENARIO A
PARAMETER	UNITS							
VOCs (8260B)								
1,2-Dichloroethane	ug/Kg	ND	ND					2 mg/Kg
Trichloroethene	ug/Kg	ND	ND					NT
1,2-Dichloropropane	ug/Kg	ND	ND					10 mg/Kg
Dibromomethane	ug/Kg	ND	ND					NT
Bromodichloromethane	ug/Kg	ND	ND					11 mg/Kg
cis-1,3-Dichloropropene	ug/Kg	ND	ND					NT
4-Methyl-2-pentanone	ug/Kg	ND	ND					NT
Toluene	ug/Kg	ND	ND					650 mg/Kg
trans-1,3-Dichloropropene	ug/Kg	ND	ND					NT
1,1,2-Trichloroethane	ug/Kg	ND	ND					5 mg/Kg
Tetrachloroethene	ug/Kg	ND	ND					NT
1,3-Dichloropropane	ug/Kg	ND	ND					NT
2-Hexanone	ug/Kg	ND	ND					NT
Dibromochloromethane	ug/Kg	ND	ND					20 mg/Kg
1,2-Dibromoethane	ug/Kg	ND	ND					NT
Chlorobenzene	ug/Kg	ND	ND					66 mg/Kg
1,1,1,2-Tetrachloroethane	ug/Kg	ND	ND					10 mg/Kg
Ethylbenzene	ug/Kg	ND	ND					400 mg/Kg
m&p Xylenes	ug/Kg	ND	ND					NT
o-xylene	ug/Kg	ND	ND					NT
Styrene	ug/Kg	ND	ND					1500 mg/Kg
Bromoform	ug/Kg	ND	ND					140 mg/Kg
Isopropylbenzene	ug/Kg	ND	ND					210 mg/Kg
Bromobenzene	ug/Kg	ND	ND					NT
1,1,2,2-Tetrachloroethane	ug/Kg	ND	ND					2 mg/Kg
1,2,3-Trichloropropane	ug/Kg	ND	ND					0.09 mg/Kg
n-Propylbenzene	ug/Kg	ND	ND					28 mg/Kg
2-Chlorotoluene	ug/Kg	ND	ND					NT
1,3,5-Trimethylbenzene	ug/Kg	ND	ND					42 mg/Kg
4-Chlorotoluene	ug/Kg	ND	ND					NT
tert-Butylbenzene	ug/Kg	ND	ND					NT
1,2,4-Trimethylbenzene	ug/Kg	ND	ND					100 mg/Kg
sec-Butylbenzene	ug/Kg	ND	ND					NT
p-Isopropyltoluene	ug/Kg	ND	ND					NT
n-Butylbenzene	ug/Kg	ND	ND					NT
1,2-Dibromo-3-chloropropane	ug/Kg	ND	ND					1 mg/Kg
1,2,3-Trichlorobenzene	ug/Kg	ND	ND					NT

TABLE 2 - RESULTS OF SOIL AND SEDIMENT SAMPLING ANALYSIS FOR BUILDING 103E (CONTINUED)

SAMPLE NUMBER SAMPLE DATE LAB ID NUMBER		103ECSSS1 7/24/2003 219240-8	103ECSSS2 7/24/2003 219240-10					STCs EXPOSURE SCENARIO A
PARAMETER	UNITS							
PCBs (8082)								
Aroclor 1016	ug/Kg	ND	ND					0.6 mg/Kg
Aroclor 1221	ug/Kg	ND	ND					0.6 mg/Kg
Aroclor 1232	ug/Kg	ND	ND					0.6 mg/Kg
Aroclor 1242	ug/Kg	ND	ND					0.6 mg/Kg
Aroclor 1248	ug/Kg	ND	ND					0.6 mg/Kg
Aroclor 1254	ug/Kg	ND	ND					0.6 mg/Kg
Aroclor 1260	ug/Kg	ND	ND					0.6 mg/Kg
EXPLOSIVES (8330)								
HMX	ug/Kg	ND	ND					3500 mg/Kg
RDX	ug/Kg	ND	ND					15 mg/Kg
1,3,5-Trinitrobenzene	ug/Kg	ND	ND					2100 mg/Kg
1,3-Dinitrobenzene	ug/Kg	ND	ND					7 mg/Kg
Nitrobenzene	ug/Kg	ND	ND					12 mg/Kg
2,4,6-TNT	ug/Kg	ND	ND					35 mg/Kg
Tetryl	ug/Kg	ND	ND					NT
2,4-Dinitrotoluene	ug/Kg	ND	ND					2 mg/Kg
2,6-Dinitrotoluene	ug/Kg	ND	ND					2 mg/Kg
2-Amino-4,6-Dinitrotoluene	ug/Kg	ND	ND					NT
4-Amino-2,6-Dinitrotoluene	ug/Kg	ND	ND					NT
2-Nitrotoluene	ug/Kg	ND	ND					NT
4-Nitrotoluene	ug/Kg	ND	ND					NT
3-Nitrotoluene	ug/Kg	ND	ND					NT
MERCURY (7471A)								
Mercury	mg/Kg	0.07	0.044					0.6 mg/Kg
METALS (6010B)								
Aluminum	mg/Kg	7700	10000					NT
Antimony	mg/Kg	ND	ND					85 mg/Kg
Arsenic	mg/Kg	7.2	3.3					11 mg/Kg
Barium	mg/Kg	150	160					14000 mg/Kg
Beryllium	mg/Kg	1	0.88					0.05 mg/Kg
Cadmium	mg/Kg	0.43	0.12					110 mg/Kg
Calcium	mg/Kg	5100	11000					NT
Chromium	mg/Kg	28	21					2100 mg/Kg
Cobalt	mg/Kg	6.3	22					NT
Copper	mg/Kg	20	12					1100 mg/Kg
Iron	mg/Kg	27000	25000					NT
Lead	mg/Kg	59	110					260 mg/Kg
Magnesium	mg/Kg	2600	4900					NT
Manganese	mg/Kg	230	190					3700 mg/Kg
Nickel	mg/Kg	29	25					4800 mg/Kg
Potassium	mg/Kg	830	760					NT
Selenium	mg/Kg	ND	ND					300 mg/Kg
Silver	mg/Kg	ND	ND					140 mg/Kg
Sodium	mg/Kg	ND	750					NT
Thallium	mg/Kg	0.83	ND					17 mg/Kg
Vanadium	mg/Kg	36	30					1500 mg/Kg
Zinc	mg/Kg	55	52					38000 mg/Kg

TABLE 2 - RESULTS OF SOIL AND SEDIMENT SAMPLING ANALYSIS FOR BUILDING 103E (CONTINUED)

SAMPLE NUMBER		103ECSSS1	103ECSSS2					STCs
SAMPLE DATE		7/24/2003	7/24/2003					EXPOSURE
LAB ID NUMBER		219240-8	219240-10					SCENARIO A
PARAMETER	UNITS							
CYANIDE (9014/9010B)								
Total Cyanide	mg/Kg	0.23	0.18					5480 mg/Kg
PHOSPHOROUS (4500PE)								
Total Phosphorous	mg/Kg	1.5	1.3					NT
SVOCs (8270C)								
Phenol	ug/Kg		ND					5200 mg/Kg
Bis (2-chloroethyl) ether	ug/Kg		ND					0.5 mg/Kg
1,3-Dichlorobenzene	ug/Kg		ND					NT
1,4-Dichlorobenzene	ug/Kg		ND					17 mg/Kg
1,2-Dichlorobenzene	ug/Kg		ND					600 mg/Kg
Benzyl alcohol	ug/Kg		ND					NT
2-Methylphenol (o-cresol)	ug/Kg		ND					3500 mg/Kg
2,2-oxybis (1-chloropropane)	ug/Kg		ND					NT
n-Nitroso-di-n-propylamine	ug/Kg		ND					NT
Hexachloroethane	ug/Kg		ND					70 mg/Kg
4-Methylphenol	ug/Kg		ND					250 mg/Kg
2-Chlorophenol	ug/Kg		ND					140 mg/Kg
Nitrobenzene	ug/Kg		ND					12 mg/Kg
Bis (2-chloroethoxy) methane	ug/Kg		ND					NT
1,2,4-Trichlorobenzene	ug/Kg		ND					270 mg/Kg
Benzoic acid	ug/Kg		ND					280000 mg/Kg
Isophorone	ug/Kg		ND					1700 mg/Kg
2,4-Dimethylphenol	ug/Kg		ND					1400 mg/Kg
Hexachlorobutadiene	ug/Kg		ND					14 mg/Kg
Napthalene	ug/Kg		ND					120 mg/Kg
2,4-Dichlorophenol	ug/Kg		ND					210 mg/Kg
4-Chloroaniline	ug/Kg		ND					NT
2,4,6-Trichlorophenol	ug/Kg		ND					140 mg/Kg
2,4,5-Trichlorophenol	ug/Kg		ND					7000 mg/Kg
Hexachlorocyclopentadiene	ug/Kg		ND					9 mg/Kg
2-Methylnapthalene	ug/Kg		ND					NT
2-Nitroaniline	ug/Kg		ND					NT
2-Chloronapthalene	ug/Kg		ND					NT
4-Chloro-3-methylphenol	ug/Kg		ND					NT
2,6-Dinitrotoluene	ug/Kg		ND					2 mg/Kg
2-Nitrophenol	ug/Kg		ND					NT
3-Nitroaniline	ug/Kg		ND					NT
Dimethyl phthalate	ug/Kg		ND					1360 mg/Kg
2,4-Dinitrophenol	ug/Kg		ND					140 mg/Kg
Acenaphthylene	ug/Kg		ND					NT
2,4-Dinitrotoluene	ug/Kg		ND					2 mg/Kg
Acanaphthene	ug/Kg		ND					1700 mg/Kg
Dibenzofuran	ug/Kg		ND					110 mg/Kg
4-Nitrophenol	ug/Kg		ND					NT
Flourene	ug/Kg		ND					1100 mg/Kg
4-Nitroaniline	ug/Kg		ND					NT
4-Bromophenyl Phenyl ether	ug/Kg		ND					150 mg/Kg
Hexachlorobenzene	ug/Kg		ND					0.9 mg/Kg

TABLE 2 - RESULTS OF SOIL AND SEDIMENT SAMPLING ANALYSIS FOR BUILDING 103E (CONTINUED)

SAMPLE NUMBER		103ECSSS1	103ECSSS2					STCs
SAMPLE DATE		7/24/2003	7/24/2003					EXPOSURE
LAB ID NUMBER		219240-8	219240-10					SCENARIO A
PARAMETER	UNITS							
SVOCs (8270C)								
Diethyl phthalate	ug/Kg		ND					2000 mg/Kg
4-Chlorophenyl phenyl ether	ug/Kg		ND					NT
Pentachlorophenol	ug/Kg		ND					6 mg/Kg
n-Nitrosodiphenylamine	ug/Kg		ND					330 mg/Kg
4,6-Dinitro-2-methylphenol	ug/Kg		ND					NT
Phenanthrene	ug/Kg		ND					NT
Anthracene	ug/Kg		ND					8500 mg/Kg
Carbazole	ug/Kg		ND					82 mg/Kg
Di-n-butyl-phthalate	ug/Kg		ND					NT
Benzidine	ug/Kg		ND					0.01mg/Kg
Flouranthene	ug/Kg		36					1600 mg/Kg
Pyrene	ug/Kg		23					2100 mg/Kg
Butly benzyl phthalate	ug/Kg		ND					930 mg/Kg
Benzo(a)anthracene	ug/Kg		ND					1 mg/Kg
Chrysene	ug/Kg		45					36 mg/Kg
3,3-Dichlorobenzidine	ug/Kg		ND					4 mg/Kg
Bis(2-ethylhexyl) phthalate	ug/Kg		ND					410 mg/Kg
Di-n-octyl phthalate	ug/Kg		ND					0.3 mg/Kg
Benzo(b)flouranthene	ug/Kg		ND					0.9 mg/Kg
Benzo(k)flouranthene	ug/Kg		ND					8 mg/Kg
Benzo(a)pyrene	ug/Kg		ND					0.2 mg/Kg
Ideno(1,2,3-cd)pyrene	ug/Kg		ND					3 mg/Kg
Dibenzo(a,h)anthracene	ug/Kg		ND					0.2 mg/Kg
Benzo(ghi)perylene	ug/Kg		ND					NT
VOCs (8260B)								
Dichlorodiflouromethane	ug/Kg	ND	ND					NT
Chloromethane	ug/Kg	ND	ND					NT
Vinyl chloride	ug/Kg	ND	ND					0.3 mg/Kg
Bromomethane	ug/Kg	ND	ND					NT
Chloroethane	ug/Kg	ND	ND					NT
Trichloroflouromethane	ug/Kg	7.6	ND					770 mg/Kg
1,1-Dichloroethene	ug/Kg	ND	ND					NT
Carbon disulfide	ug/Kg	ND	ND					630 mg/Kg
Acetone	ug/Kg	ND	ND					2700 mg/Kg
Methylene chloride	ug/Kg	ND	ND					51 mg/Kg
trans-1,2-Dichloroethene	ug/Kg	ND	ND					NT
Methyl-tert-butyl-ether	ug/Kg	ND	ND					8760 mg/Kg
1,1-Dichloroethane	ug/Kg	ND	ND					NT
2,2-Dichloropropane	ug/Kg	ND	ND					NT
cis-1,2-Dichloroethene	ug/Kg	ND	ND					NT
2-Butanone	ug/Kg	ND	ND					NT
Bromochloromethane	ug/Kg	ND	ND					11 mg/Kg
Chloroform	ug/Kg	ND	ND					0.8 mg/Kg
1,1,1-Trichloroethane	ug/Kg	ND	ND					1200 mg/Kg
1,1-Dichloropropene	ug/Kg	ND	ND					NT
Carbon Tetrachloride	ug/Kg	ND	ND					2 mg/Kg
Benzene	ug/Kg	ND	ND					6 mg/Kg

TABLE 2 - RESULTS OF SOIL AND SEDIMENT SAMPLING ANALYSIS FOR BUILDING 103E (CONTINUED)

SAMPLE NUMBER		103ECSSS1	103ECSSS2					STCs
SAMPLE DATE		7/24/2003	7/24/2003					EXPOSURE
LAB ID NUMBER		219240-8	219240-10					SCENARIO A
PARAMETER	UNITS							
VOCs (8260B)								
1,2-Dichloroethane	ug/Kg	ND	ND					2 mg/Kg
Trichloroethene	ug/Kg	ND	ND					NT
1,2-Dichloropropane	ug/Kg	ND	ND					10 mg/Kg
Dibromomethane	ug/Kg	ND	ND					NT
Bromodichloromethane	ug/Kg	ND	ND					11 mg/Kg
cis-1,3-Dichloropropene	ug/Kg	ND	ND					NT
4-Methyl-2-pentanone	ug/Kg	ND	ND					NT
Toluene	ug/Kg	ND	ND					650 mg/Kg
trans-1,3-Dichloropropene	ug/Kg	ND	ND					NT
1,1,2-Trichloroethane	ug/Kg	ND	ND					5 mg/Kg
Tetrachloroethene	ug/Kg	ND	ND					NT
1,3-Dichloropropane	ug/Kg	ND	ND					NT
2-Hexanone	ug/Kg	ND	ND					NT
Dibromochloromethane	ug/Kg	ND	ND					20 mg/Kg
1,2-Dibromoethane	ug/Kg	ND	ND					NT
Chlorobenzene	ug/Kg	ND	ND					66 mg/Kg
1,1,1,2-Tetrachloroethane	ug/Kg	ND	ND					10 mg/Kg
Ethylbenzene	ug/Kg	ND	ND					400 mg/Kg
m&p Xylenes	ug/Kg	ND	ND					NT
o-xylene	ug/Kg	ND	ND					NT
Styrene	ug/Kg	ND	ND					1500 mg/Kg
Bromoform	ug/Kg	ND	ND					140 mg/Kg
Isopropylbenzene	ug/Kg	ND	ND					210 mg/Kg
Bromobenzene	ug/Kg	ND	ND					NT
1,1,2,2-Tetrachloroethane	ug/Kg	ND	ND					2 mg/Kg
1,2,3-Trichloropropane	ug/Kg	ND	ND					0.09 mg/Kg
n-Propylbenzene	ug/Kg	ND	ND					28 mg/Kg
2-Chlorotoluene	ug/Kg	ND	ND					NT
1,3,5-Trimethylbenzene	ug/Kg	ND	ND					42 mg/Kg
4-Chlorotoluene	ug/Kg	ND	ND					NT
tert-Butylbenzene	ug/Kg	ND	ND					NT
1,2,4-Trimethylbenzene	ug/Kg	ND	ND					100 mg/Kg
sec-Butylbenzene	ug/Kg	ND	ND					NT
p-Isopropyltoluene	ug/Kg	ND	ND					NT
n-Butylbenzene	ug/Kg	ND	ND					NT
1,2-Dibromo-3-chloropropane	ug/Kg	ND	ND					1 mg/Kg
1,2,3-Trichlorobenzene	ug/Kg	ND	ND					NT

TABLE 3 - RESULTS OF WIPE SAMPLING ANALYSIS FOR BUILDING 103

SAMPLE NUMBER SAMPLE DATE LAB ID NUMBER		103CSWS1 7/23/2003 219204-8	103CSWS2 7/23/2003 219204-10	103CSWS3 7/23/2003 219204-11	103CSWS4 7/23/2003 219204-13	103CWS1 7/24/2003 219240-28	103CWS2 7/24/2003 219240-29	WIPE TARGET CONCENTRATION
PARAMETER	UNITS							
PCBs (8082)								
Aroclor 1016	ug/Wipe	ND	ND	ND	ND	ND	ND	10 ug/CM ² *
Aroclor 1221	ug/Wipe	ND	ND	ND	ND	ND	ND	10 ug/CM ²
Aroclor 1232	ug/Wipe	ND	ND	ND	ND	ND	ND	10 ug/CM ²
Aroclor 1242	ug/Wipe	ND	ND	ND	ND	ND	ND	10 ug/CM ²
Aroclor 1248	ug/Wipe	ND	ND	ND	ND	ND	ND	10 ug/CM ²
Aroclor 1254	ug/Wipe	ND	ND	ND	ND	ND	ND	10 ug/CM ²
Aroclor 1260	ug/Wipe	4.8	2.4	46	3.4	6.3	ND	10 ug/CM ²
EXPLOSIVES (8330)								
HMX	ug/Wipe	ND	ND	ND	ND	ND	ND	3500 mg/Kg
RDX	ug/Wipe	ND	ND	ND	ND	ND	ND	15 mg/Kg
1,3,5-Trinitrobenzene	ug/Wipe	ND	240	ND	ND	ND	ND	2100 mg/Kg
1,3-Dinitrobenzene	ug/Wipe	ND	ND	ND	ND	ND	ND	7 mg/Kg
Nitrobenzene	ug/Wipe	ND	ND	ND	ND	ND	ND	12 mg/Kg
2,4,6-TNT	ug/Wipe	ND	ND	ND	ND	ND	ND	35 mg/Kg
Tetryl	ug/Wipe	ND	ND	ND	ND	ND	ND	NT
2,4-Dinitrotoluene	ug/Wipe	ND	ND	ND	ND	ND	ND	2 mg/Kg
2,6-Dinitrotoluene	ug/Wipe	ND	ND	ND	ND	ND	ND	2 mg/Kg
2-Amino-4,6-Dinitrotoluene	ug/Wipe	ND	ND	ND	ND	ND	ND	NT
4-Amino-2,6-Dinitrotoluene	ug/Wipe	ND	ND	ND	ND	ND	ND	NT
2-Nitrotoluene	ug/Wipe	ND	ND	ND	ND	ND	ND	NT
4-Nitrotoluene	ug/Wipe	ND	ND	ND	ND	ND	ND	NT
3-Nitrotoluene	ug/Wipe	ND	ND	ND	ND	ND	ND	NT
MERCURY (7471A)								
Mercury	ug/Wipe	2700	400	150	1500	4900	9100	0.6 mg/Kg
METALS (6010B)								
Aluminum	mg/Wipe	3	2.9	0.22	5.2	12	4	NT
Antimony	mg/Wipe	0.0045	ND	ND	0.0027	0.0068	0.01	85 mg/Kg
Arsenic	mg/Wipe	0.0029	0.0027	0.0021	0.0049	0.021	0.0097	11 mg/Kg
Barium	mg/Wipe	6.8	0.12	0.077	0.12	1.8	0.79	14000 mg/Kg
Beryllium	mg/Wipe	ND	ND	ND	ND	ND	ND	0.05 mg/Kg
Cadmium	mg/Wipe	0.013	0.0009	0.0006	0.0019	0.016	0.071	110 mg/Kg
Calcium	mg/Wipe	34	42	3.8	43	180	80	NT
Chromium	mg/Wipe	0.35	0.15	0.017	0.018	0.17	0.12	2100 mg/Kg
Cobalt	mg/Wipe	0.057	0.0011	0.017	0.0069	0.13	0.099	NT
Copper	mg/Wipe	0.047	0.38	0.18	22	0.24	0.56	1100 mg/Kg
Iron	mg/Wipe	5.8	3.1	18	16	30	59	NT
Lead	mg/Wipe	6.8	0.9	2	0.18	2.5	1.4	100 ug/CM ² **
Magnesium	mg/Wipe	2.2	1.2	0.28	2.6	12	4.5	NT
Manganese	mg/Wipe	0.19	0.061	0.088	0.2	0.61	0.39	3700 mg/Kg
Nickel	mg/Wipe	0.0073	0.0031	0.0022	0.019	0.036	0.03	4800 mg/Kg
Potassium	mg/Wipe	1	2.1	0.099	3.4	4.2	6.3	NT
Selenium	mg/Wipe	ND	ND	ND	0.0024	0.0023	ND	300 mg/Kg
Silver	mg/Wipe	0.0008	ND	ND	0.0019	0.0025	0.0021	140 mg/Kg
Sodium	mg/Wipe	5.7	1.4	1.2	5.3	7.4	6.2	NT
Thallium	mg/Wipe	ND	ND	ND	ND	ND	ND	17 mg/Kg
Vanadium	mg/Wipe	0.0075	0.0053	0.0009	0.016	0.035	0.015	1500 mg/Kg
Zinc	mg/Wipe	10	0.28	0.77	9.1	5.3	3	38000 mg/Kg

TABLE 3 - RESULTS OF WIPE SAMPLING ANALYSIS FOR BUILDING 103D (CONTINUED)

SAMPLE NUMBER SAMPLE DATE LAB ID NUMBER		103DCSWS1 7/24/2003 219240-13	103DCSWS2 7/24/2003 219240-15	103DWS1 7/24/2003 219240-30	103DWS2 7/24/2003 219240-31		WIPE TARGET CONCENTRATION
PARAMETER	UNITS						
PCBs (8082)							
Aroclor 1016	ug/Wipe	ND	ND	ND	ND		10 ug/CM ² *
Aroclor 1221	ug/Wipe	ND	ND	ND	ND		10 ug/CM ²
Aroclor 1232	ug/Wipe	ND	ND	ND	ND		10 ug/CM ²
Aroclor 1242	ug/Wipe	ND	ND	ND	ND		10 ug/CM ²
Aroclor 1248	ug/Wipe	ND	ND	ND	ND		10 ug/CM ²
Aroclor 1254	ug/Wipe	ND	ND	ND	ND		10 ug/CM ²
Aroclor 1260	ug/Wipe	ND	ND	ND	ND		10 ug/CM ²
EXPLOSIVES (8330)							
HMX	ug/Wipe	ND	ND	ND	ND		3500 mg/Kg
RDX	ug/Wipe	ND	ND	ND	ND		15 mg/Kg
1,3,5-Trinitrobenzene	ug/Wipe	ND	ND	2.2	ND		2100 mg/Kg
1,3-Dinitrobenzene	ug/Wipe	ND	ND	ND	ND		7 mg/Kg
Nitrobenzene	ug/Wipe	ND	ND	ND	ND		12 mg/Kg
2,4,6-TNT	ug/Wipe	ND	ND	ND	ND		35 mg/Kg
Tetryl	ug/Wipe	ND	ND	ND	ND		NT
2,4-Dinitrotoluene	ug/Wipe	ND	ND	ND	ND		2 mg/Kg
2,6-Dinitrotoluene	ug/Wipe	ND	ND	ND	ND		2 mg/Kg
2-Amino-4,6-Dinitrotoluene	ug/Wipe	ND	3.5	ND	ND		NT
4-Amino-2,6-Dinitrotoluene	ug/Wipe	ND	ND	ND	ND		NT
2-Nitrotoluene	ug/Wipe	ND	ND	ND	ND		NT
4-Nitrotoluene	ug/Wipe	ND	ND	ND	ND		NT
3-Nitrotoluene	ug/Wipe	ND	ND	ND	ND		NT
MERCURY (7471A)							
Mercury	ug/Wipe	96	41	3500	43		0.6 mg/Kg
METALS (6010B)							
Aluminum	mg/Wipe	3	2.2	6.3	2.1		NT
Antimony	mg/Wipe	ND	ND	0.0097	ND		85 mg/Kg
Arsenic	mg/Wipe	0.0018	0.0011	0.018	0.0047		11 mg/Kg
Barium	mg/Wipe	2.3	0.23	0.7	0.057		14000 mg/Kg
Beryllium	mg/Wipe	ND	ND	ND	ND		0.05 mg/Kg
Cadmium	mg/Wipe	0.0006	0.0004	0.059	0.0004		110 mg/Kg
Calcium	mg/Wipe	63	16	90	53		NT
Chromium	mg/Wipe	0.018	0.0071	0.19	0.011		2100 mg/Kg
Cobalt	mg/Wipe	0.0028	0.0009	0.042	0.0015		NT
Copper	mg/Wipe	0.0067	0.0053	1	0.0063		1100 mg/Kg
Iron	mg/Wipe	3.9	2.5	63	2.7		NT
Lead	mg/Wipe	13	2.7	2.6	0.039		100 ug/CM ² **
Magnesium	mg/Wipe	1.7	0.82	11	1.5		NT
Manganese	mg/Wipe	0.12	0.05	1.1	0.089		3700 mg/Kg
Nickel	mg/Wipe	0.0037	0.0022	0.11	0.0035		4800 mg/Kg
Potassium	mg/Wipe	3	1.6	9.2	3.3		NT
Selenium	mg/Wipe	ND	ND	0.0017	ND		300 mg/Kg
Silver	mg/Wipe	ND	ND	0.0044	ND		140 mg/Kg
Sodium	mg/Wipe	1.7	1	12	18		NT
Thallium	mg/Wipe	ND	ND	ND	ND		17 mg/Kg
Vanadium	mg/Wipe	0.018	0.0046	0.027	0.015		1500 mg/Kg
Zinc	mg/Wipe	0.16	0.11	7.8	0.033		38000 mg/Kg

TABLE 3 - RESULTS OF WIPE SAMPLING ANALYSIS FOR BUILDING 103E (CONTINUED)

SAMPLE NUMBER SAMPLE DATE LAB ID NUMBER		103ECSWS1 7/24/2003 219240-9	103ECSWS2 7/24/2003 219240-11					WIPE TARGET CONCENTRATION
PARAMETER	UNITS							
PCBs (8082)								
Aroclor 1016	ug/Wipe	ND	ND					10 ug/CM ² *
Aroclor 1221	ug/Wipe	ND	ND					10 ug/CM ²
Aroclor 1232	ug/Wipe	ND	ND					10 ug/CM ²
Aroclor 1242	ug/Wipe	ND	ND					10 ug/CM ²
Aroclor 1248	ug/Wipe	ND	ND					10 ug/CM ²
Aroclor 1254	ug/Wipe	ND	ND					10 ug/CM ²
Aroclor 1260	ug/Wipe	ND	ND					10 ug/CM ²
EXPLOSIVES (8330)								
HMX	ug/Wipe	ND	ND					3500 mg/Kg
RDX	ug/Wipe	ND	ND					15 mg/Kg
1,3,5-Trinitrobenzene	ug/Wipe	ND	ND					2100 mg/Kg
1,3-Dinitrobenzene	ug/Wipe	ND	ND					7 mg/Kg
Nitrobenzene	ug/Wipe	ND	ND					12 mg/Kg
2,4,6-TNT	ug/Wipe	ND	ND					35 mg/Kg
Tetryl	ug/Wipe	ND	ND					NT
2,4-Dinitrotoluene	ug/Wipe	ND	ND					2 mg/Kg
2,6-Dinitrotoluene	ug/Wipe	ND	ND					2 mg/Kg
2-Amino-4,6-Dinitrotoluene	ug/Wipe	4.4	8.6					NT
4-Amino-2,6-Dinitrotoluene	ug/Wipe	2	ND					NT
2-Nitrotoluene	ug/Wipe	ND	ND					NT
4-Nitrotoluene	ug/Wipe	ND	ND					NT
3-Nitrotoluene	ug/Wipe	ND	ND					NT
MERCURY (7471A)								
Mercury	ug/Wipe	14	94					0.6 mg/Kg
METALS (6010B)								
Aluminum	mg/Wipe	1.4	2.5					NT
Antimony	mg/Wipe	ND	ND					85 mg/Kg
Arsenic	mg/Wipe	0.0011	0.0011					11 mg/Kg
Barium	mg/Wipe	7.5	0.78					14000 mg/Kg
Beryllium	mg/Wipe	ND	ND					0.05 mg/Kg
Cadmium	mg/Wipe	0.0015	0.0004					110 mg/Kg
Calcium	mg/Wipe	26	31					NT
Chromium	mg/Wipe	0.015	0.12					2100 mg/Kg
Cobalt	mg/Wipe	0.0077	0.0019					NT
Copper	mg/Wipe	0.0066	0.0033					1100 mg/Kg
Iron	mg/Wipe	2	2.5					NT
Lead	mg/Wipe	33	8.1					100 ug/CM ² **
Magnesium	mg/Wipe	0.99	1.1					NT
Manganese	mg/Wipe	0.072	0.081					3700 mg/Kg
Nickel	mg/Wipe	0.0029	0.0026					4800 mg/Kg
Potassium	mg/Wipe	0.75	1.1					NT
Selenium	mg/Wipe	ND	ND					300 mg/Kg
Silver	mg/Wipe	ND	ND					140 mg/Kg
Sodium	mg/Wipe	0.53	0.65					NT
Thallium	mg/Wipe	ND	ND					17 mg/Kg
Vanadium	mg/Wipe	0.0069	0.0047					1500 mg/Kg
Zinc	mg/Wipe	0.29	0.19					38000 mg/Kg



September 29, 2003
Contract C-03186

VIA FAX 816-941-8025

Mr. David E. Brewer, P.G.
SCS Engineers
10401 Holmes Road
Suite 400
Kansas City, MO 64131-34-6

**RE: Mercury Monitoring
GSA Armory on Goodfellow
St. Louis, MO**

David:

This letter transmits results of particulate mercury, particulate lead, and mercury vapor sampling performed by NPN Environmental on September 4, 2003 at Buildings 102, 103, 104, and 112 on the above-referenced property. The following sections describe the scope of work performed and findings.

Passive Vapor Air Monitoring

NPN Environmental collected 8 passive ambient air samples for mercury vapor at locations indicated in the field by SCS Engineers. Samples were collected on ChemDisk™ gold film media badges over the sampling interval. Samples were submitted via overnight express courier to Assay Technology AT Labs in Boardman, Ohio (AIHA Accreditation No. 100903) for analysis by OSHA Method 140.

Two samples contained detectable quantities of mercury vapor. Sample 103D from the second floor air handler room of Building 103D contained 0.0050 mg/m³ mercury. Sample 103T from the utility tunnel under Building 103 contained 0.0045 mg/m³ mercury. Both samples are below the OSHA Permissible Exposure Limit (PEL) of 0.05 mg/m³ (8-hour time weighted average).

Results are presented in **Table 1 – Passive Vapor Ambient Air Monitoring Results**. Included in the table are sample identification number, location, duration and volume of sample, quantity detected, calculated exposure level, and OSHA PEL. The complete analytical report is provided in *Attachment A – Analytical Results*.

Mr. David E. Brewer, P.G.
September 29, 2003
Page 2 of 2

Particulate Air Monitoring

NPN Environmental collected 9 ambient air monitoring samples at locations indicated in the field by SCS Engineers. Samples were collected with calibrated sampling pumps on closed-face 37 mm 0.8 micron MCE filter cassettes over the sampling interval. At the request of SCS Engineers, the sample collected from the crawl space under the cafeteria of Building 112 (sample 112C) was analyzed for lead instead of mercury. Two field blanks were prepared for quality assurance/quality control purposes. Samples and field blanks were submitted by overnight express courier to Assay Technology AT Labs. Particulate mercury samples were analyzed by OSHA Method 145 and lead samples by OSHA Method 125.

None of the ambient air monitoring samples contained levels of particulate mercury or lead above laboratory detection limits. Results are presented in **Table 2 – Particulate Ambient Air Monitoring Results**. Included in the table are sample identification number, location, duration and volume of sample, quantity detected, calculated exposure level, and OSHA PEL. The complete analytical report is provided in *Attachment A*.

We appreciate the opportunity to provide our professional environmental engineering services to you and SCS Engineers. If you have any questions or require additional information, please call me at 636-343-1300.

Sincerely,

(b) (6)

Ruth C. Mannebach
Senior Environmental Scientist

Enclosures Table 1 – Passive Vapor Ambient Air Monitoring Results
 Table 2 – Particulate Ambient Air Monitoring Results
 Attachment 1 – Analytical Results

TABLE 1
Passive Vapor Ambient Air Monitoring Results

Sample ID	Sample Date	Sample Location	Sample Duration (minutes)	Sample Volume (liters)	Quantity Detected (µg)	Exposure (mg/m ³)	OSHA PEL (mg/m ³)
Mercury ¹							
103C	9/4/2003	Bldg. 103C, 2nd floor office area	421	6.27	<0.0100	<0.0016	0.05
102D	9/4/2003	Bldg. 102D, tunnel under dark rooms	363	5.41	<0.0100	<0.0018	0.05
103D	9/4/2003	Bldg. 103D, 2nd floor air handler room	369	5.50	0.0277	0.0050	0.05
104C	9/4/2003	Bldg. 104C, freight elevator	395	5.89	<0.0100	<0.0017	0.05
103T	9/4/2003	Bldg. 103T, utility tunnel	377	5.62	0.0255	0.0045	0.05
104T	9/4/2003	Bldg. 104T, utility tunnel	339	5.05	<0.0100	<0.0020	0.05
104D	9/4/2003	Bldg. 104D, 2nd floor hallway near exit	398	5.93	<0.0100	<0.0017	0.05
102A	9/4/2003	Bldg. 102A, freight elevator	370	5.51	<0.0100	<0.0018	0.05

Notes: Samples collected on Chem-Disk™ Monitor gold film media badges
¹OSHA Method 140

TABLE 2
Particulate Ambient Air Monitoring Results

Sample ID	Sample Date	Sample Location	Sample Duration (minutes)	Sample Volume (liters)	Quantity Detected (µg)	Exposure (mg/m ³)	OSHA PEL (mg/m ³)
Mercury¹							
103C	9/4/2003	Bldg. 103C, 2nd floor office area	304	608	<0.02	<0.00003	0.01
104D	9/4/2003	Bldg. 104D, 2nd floor hallway near exit	400	800	<0.02	<0.00003	0.01
104C	9/4/2003	Bldg. 104C, freight elevator	394	788	<0.02	<0.00003	0.01
104T	9/4/2003	Bldg. 104T, utility tunnel	130	234	<0.02	<0.00009	0.01
103D	9/4/2003	Bldg. 103D, 2nd floor air handling room	370	740	<0.02	<0.00003	0.01
103T	9/4/2003	Bldg. 103T, utility tunnel	378	756	<0.02	<0.00003	0.01
102A	9/4/2003	Bldg. 102A, freight elevator	371	742	<0.02	<0.00003	0.01
102D	9/4/2003	Bldg. 102D, tunnel under darkrooms	364	728	<0.02	<0.00003	0.01
FB - Hg	9/4/2003	Field Blank	NA	NA	<0.02	NA	NA
Lead²							
112C	9/4/2003	Bldg. 112C, crawlspace under cafeteria	393	786	<0.5	<0.0006	0.05
FB - Pb	9/4/2003	Field Blank	NA	NA	<0.5	NA	NA

Notes: NA = Not Applicable
 Samples collected on 37 mm 0.8 µm MCE filter cassettes
¹OSHA Method 125
²OSHA Method 145

ATTACHMENT 1

Analytical Results



AT Labs a unit of assay technology

LABORATORY REPORT
(Air Sampling)

The Innovation & Value Leader
in Occupational Hygiene Analysis

Batch No: 2003090216

Customer: NPN ENVIRONMENTAL
Attention: RUTH MANNEBACH
Address: 927 HORAN DRIVE

Contact No: 43927
Project No:
PO No:

City, State: ST LOUIS, MO 63026
Country:

Date Received: September 8, 2003
Date Reported: September 11, 2003

Date(s) Analyzed: 09/11/03

Tel No: (636) 343-1300
Fax No: (636) 343-8192

Exposure results are the average concentration for the period of time monitored. ND = None Detected. The results relate only to the items tested. Unless noted below, samples were received in acceptable condition and all applicable quality control were within method specifications. The molar volume at 22 C (24.1 L/mole) was used to calculate parts per million, ppm. Lab blanks are always subtracted before a result is reported, unless stated otherwise. Air surface concentrations reported are based upon field sampling information provided by the customer. For assistance with the content of this report, please visit the Customer Services section of our web site at <http://www.assaytech.com> or contact Technical Support at 1-800-833-1258.

Lab Sample ID / Lab Code	Date Sampled	Media Code - Client Sample ID	Media Lot / Serial #	Chemical Analyzed	Quantity Found (µg)	Detection Limit (µg)	Sample Volume (L)	Sample Time (min)	Exposure (mg/M ³)	Exposure (ppm)	Detection Limit (ppm)
2003028250 - ATOH	9/4/03	J593 - 103C	11K02 - DU1629	MERCURY (1)	ND	0.01	6.27	421	ND	ND	0.0002
2003028251 - ATOH	9/4/03	J593 - 102D	11K02 - DU1259	MERCURY (1)	ND	0.01	5.41	363	ND	ND	0.0002
2003028252 - ATOH	9/4/03	J593 - 103D	11K02 - DU1296	MERCURY (1)	0.0277	0.01	5.5	369	0.005	0.00061	0.0002
2003028253 - ATOH	9/4/03	J593 - 104C	11K02 - DU1402	MERCURY (1)	ND	0.01	5.89	395	ND	ND	0.0002
2003028254 - ATOH	9/4/03	J593 - 103T	11K02 - DU1797	MERCURY (1)	0.0255	0.01	5.62	377	0.0045	0.00055	0.0002
2003028255 - ATOH	9/4/03	J593 - 104T	11K02 - DU1455	MERCURY (1)	ND	0.01	5.05	339	ND	ND	0.0002
2003028256 - ATOH	9/4/03	J593 - 104D	11K02 - DU1126	MERCURY (1)	ND	0.01	5.93	398	ND	ND	0.0002
2003028257 - ATOH	9/4/03	J593 - 102A	11K02 - DU0922	MERCURY (1)	ND	0.01	5.51	370	ND	ND	0.0002

Messages

Lab Sample ID Message

Method 1

Method Name
OSHA 140 (OSHA PEL 0.1 MG/M3)

Analyzed By
S. LAUDERBAUC K. TAYLOR

Results Reviewed by Person Monitored (if Applicable): _____
(Initials/Date)



AT Labs a unit of assay technology

LABORATORY REPORT
(Air Sampling)

The Innovation & Value Leader
in Occupational Hygiene Analysis

Batch No: 2003090217

Customer: NPN ENVIRONMENTAL
Attention: RUTH MANNEBACH
Address: 927 HORAN DRIVE

Contact No: 43927
Project No: C-03186
PO No:

City, State: ST LOUIS, MO 63026
Country:

Date Received: September 8, 2003
Date Reported: September 11, 2003

Date(s) Analyzed: 09/11/03

Tel No: (636) 343-1300
Fax No: (636) 343-8192

Exposure results are the average concentration for the period of time monitored. ND = None Detected. The results relate only to the items tested. Unless noted below, samples were received in acceptable condition and all applicable quality control were within method specifications. The molar volume at 22 C (24.1 L/mole) was used to calculate parts per million, ppm. Lab blanks are always subtracted before a result is reported, unless stated otherwise. Air surface concentrations reported are based upon field sampling information provided by the customer. For assistance with the content of this report, please visit the Customer Services section of our web site at <http://www.assaytech.com> or contact Technical Support at 1-800-833-1258.

Lab Sample ID / Lab Code	Date Sampled	Media Code - Client Sample ID	Media Lot / Serial #	Chemical Analyzed	Quantity Found (µg)	Detection Limit (µg)	Sample Volume (L)	Sample Time (min)	Exposure (mg/M ³)	Exposure (ppm)	Detection Limit (ppm)
2003028258 - ATOH	9/4/03	CASSETTE - 103C	-	MERCURY (2)	ND	0.02	608	304	ND	ND	0.000004
2003028259 - ATOH	9/4/03	CASSETTE - 104D	-	MERCURY (2)	ND	0.02	800	400	ND	ND	0.000003
2003028260 - ATOH	9/4/03	CASSETTE - 104C	-	MERCURY (2)	ND	0.02	788	394	ND	ND	0.000003
2003028261 - ATOH	9/4/03	CASSETTE - 104T	-	MERCURY (2)	ND	0.02	234	130	ND	ND	0.00001
2003028262 - ATOH	9/4/03	CASSETTE - 112C	-	LEAD (1)	ND	0.5	786	393	ND	ND	0.00007
2003028263 - ATOH	9/4/03	CASSETTE - 103D	-	MERCURY (2)	ND	0.02	740	370	ND	ND	0.000003
2003028264 - ATOH	9/4/03	CASSETTE - 103T	-	MERCURY (2)	ND	0.02	756	378	ND	ND	0.000003
2003028265 - ATOH	9/4/03	CASSETTE - 102A	-	MERCURY (2)	ND	0.02	742	371	ND	ND	0.000003
2003028266 - ATOH	9/4/03	CASSETTE - 102D	-	MERCURY (2)	ND	0.02	728	364	ND	ND	0.000003
2003028267 - ATOH	9/4/03	CASSETTE - FB	-	MERCURY (2)	ND	0.02	N/A	N/A	ND	ND	0.000003
2003028288 - ATOH	9/4/03	CASSETTE - BLANK ADDED BY LAB	-	LEAD (1)	ND	0.5	N/A	N/A	ND	ND	0.000003

Messages

Lab Sample ID	Message	Method	Method Name	Analyzed By	Approved By
1		1	OSHA ID 125	S. LAUDERBAUC	K. TAYLOR
2		2	OSHA ID 145		

Results Reviewed by Person Monitored (If Applicable): _____ (Initials/Date)



a unit of assay technology

(800) 833-1258

250 DeBartolo Place, Ste. 2525
Boardman, OH 44512
(AIHA Lab #9349)
Fax: (330) 758-1245
www.assaytech.com
askassay@assaytech.com

LAB REQUEST FORM

(CLIENT WORK ORDER & CHAIN OF CUSTODY)

Please fill out form completely—incomplete forms will be returned.

DO NOT WRITE in Shaded Boxes—Lab Use Only

Service Authorized
(IMPORTANT!...Client Signature Required)
 REG (6th DAY after receipt for IH samples) 0% Surcharge
 EXP (3rd DAY after receipt for IH samples) 50% Surcharge
 RSH (1st DAY after receipt for IH samples) 100% Surcharge

Purchase Order or Credit Card No.		Send Lab Report To:		Send Invoice To:		ANALYTES or Tests Requested							
LAB SAMPLE ID No.	CLIENT SAMPLE ID (30 CHARACTERS)	MEDIA CODE (SEE BELOW)	DATE SAMPLED	COMP FLOW (L/MIN)	GRAB TIME (MIN)	# CONTAINERS VOLUME (L)	Check Box [✓] to indicate ANALYTES TESTED for each SAMPLE						
103C	C	C	9/4/03	2.0	304	600	1	2	3	4	5	6	7
104D	C	C	9/4/03	2.0	400	800	1	2	3	4	5	6	7
104C	C	C	9/4/03	2.0	394	788	1	2	3	4	5	6	7
104T	C	C	9/4/03	1.8	130	234	1	2	3	4	5	6	7
112C	C	C	9/4/03	2.0	393	786	1	2	3	4	5	6	7
103D	C	C	9/4/03	2.0	270	740	1	2	3	4	5	6	7
103T	C	C	9/4/03	2.0	371	736	1	2	3	4	5	6	7
102A	C	C	9/4/03	2.0	351	743	1	2	3	4	5	6	7
102D	C	C	9/4/03	2.0	364	720	1	2	3	4	5	6	7
FB	C	C	9/4/03	NA	NA	NA	1	2	3	4	5	6	7

Chain of Custody		ANALYTES/Test Price Codes	
LAB SAMPLE ID No.	CLIENT SAMPLE ID (30 CHARACTERS)	DATE	DATE
103C	C	9/4/03	9/10/03
104D	C	9/4/03	9/10/03
104C	C	9/4/03	9/10/03
104T	C	9/4/03	9/10/03
112C	C	9/4/03	9/10/03
103D	C	9/4/03	9/10/03
103T	C	9/4/03	9/10/03
102A	C	9/4/03	9/10/03
102D	C	9/4/03	9/10/03
FB	C	9/4/03	9/10/03

***Media Codes**
 C = Filter Cassette
 OVS = OSHA Versatile Sample
 PUF = PUF
 T = Sampling Tube
 W = Surface Wipe
 T&C = Tube with Cassette
 Badge = (Enter all Nos. on Badge)
 Pop Media = (Enter all Nos. from label)

WHITE — LAB COPY YELLOW — ACCOUNTING COPY PINK — CLIENT COPY