Table 5. Surface Soil Analytical Summary
Marshall Army Chemicals Plant

Analyte	CAS No.	Residential RBC (RRBC)[1] mg/kg	Industrial RBC (IRBC)[1] mg/kg	Migration to Groundwater[2] mg/kg	Number Analyzed	Number Detects	Number Detects >RRBC	Number Detects >IRBC	Number Detects > M2GW	Max Concentration Detected mg/kg
VOLATILE ORGANIC COMPOUNDS										
1,1,1-TRICHLOROETHANE	71-55-6	640	3200	**5.74**	45	3	0	0	**1**	**8.4**
1,1,2,2-TETRACHLOROETHANE	79-34-5	**0.38**	9	**0.0003**	45	1	**1**	0	**1**	**0.38**
1,1-DICHLOROETHANE	75-34-3	590	2100	5.29	45	1	0	0	0	0.34
1,2,4-TRICHLOROBENZENE	120-82-1	650	7600	**13.7**	45	8	0	0	**1**	**120**
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.45	6.9	**0.001**	45	1	0	0	**1**	**0.12**
1,2-DICHLOROBENZENE	95-50-1	900	3300	**11.58**	45	6	0	0	**1**	**130**
1,4-DICHLOROBENZENE	106-46-7	**3.4**	**81**	**2.02**	45	8	**1**	**1**	**1**	**130**
2-BUTANONE	78-93-3	7300	28000	7.96	45	7	0	0	0	0.7
ACETONE	67-64-1	160	6200	2.45	45	34	0	0	0	0.12
BENZENE	71-43-2	**0.65**	15	**0.034**	45	2	**1**	0	**2**	**4.5**
CARBON DISULFIDE	75-15-0	360	1200	8.32	45	6	0	0	0	0.33
CARBON TETRACHLORIDE	56-23-5	**0.24**	5.3	**0.061**	45	2	**1**	0	**1**	**4.3**
CHLOROBENZENE	108-90-7	150	540	1.4	45	4	0	0	0	0.092
CHLOROFORM	67-66-3	0.24	1.3	**0.001**	45	3	0	0	**3**	**0.12**
CHLOROMETHANE	74-87-3	1.2	27	0.01	45	2	0	0	0	0.0044
CIS-1,2-DICHLOROETHENE	156-59-2	43	150	0.4	45	1	0	0	0	**0.072**
ETHYLBENZENE	100-41-4	1500	6000	17.04	45	2	0	0	0	4.4
ISOPROPYLBENZENE	98-82-8	160	520	62.68	45	3	0	0	0	2.5
METHYL T-BUTYL ETHER	1634-04-4	NE	NE	NE	45	1	NE	NE	NE	0.056
TETRACHLOROETHENE	127-18-4	**5.7**	190	**0.08**	45	23	**2**	0	**3**	**7**
TOLUENE	108-88-3	590	2000	**10.07**	45	4	0	0	**1**	**20**
TRANS-1,2-DICHLOROETHENE	156-60-5	63	210	0.75	45	1	0	0	0	0.066
TRICHLOROETHENE	79-01-6	2.7	61	**0.042**	45	8	0	0	**3**	**1.2**
XYLENES (TOTAL)	1330-20-7	1400	4500	123.62	45	3	0	0	0	15
SEMIVOLATILE ORGANIC COMPOUNDS										
1,2,4,5-TETRACHLOROBENZENE	95-94-3	18	260	**0.66**	45	2	0	0	**2**	**4.1**
2,4-DIMETHYLPHENOL	105-67-9	1200	18000	9.02	45	1	0	0	0	0.12
2-CHLORONAPHTHALENE	91-58-7	3900	27000	32.13	45	2	0	0	0	3.1
2-METHYLNAPHTHALENE	91-57-6	NE	NE	NE	45	16	NE	NE	NE	2
3- & 4-METHYLPHENOL	NL	310	4400	NE	45	1	0	0	NE	0.11
ACETOPHENONE	98-86-2	0.5	1.6	**0.0002**	45	3	0	0	**3**	**0.11**
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	35	1800	3624.02	45	1	0	0	0	0.2
CARBAZOLE	86-74-8	24	1200	**0.46**	45	4	0	0	**1**	**1.8**
DIBENZOFURAN	132-64-9	290	5100	7.65	45	12	0	0	0	0.9
DIMETHYLPHTHALATE	131-11-3	610000	1000000	NE	45	1	0	0	NE	0.24
HEXACHLOROBENZENE	118-74-1	**0.3**	**15**	**2.2**	45	3	**3**	**3**	**3**	**160**
HEXACHLOROBUTADIENE	87-68-3	**6.2**	**260**	**1.83**	45	5	**3**	**2**	**3**	**350**
HEXACHLOROETHANE	67-72-1	**35**	880	**0.36**	45	3	**1**	0	**3**	**40**

Table 5. Surface Soil Analytical Summary
Marshall Army Chemicals Plant

Analyte	CAS No.	Residential RBC (RRBC)[1] mg/kg	Industrial RBC (IRBC)[1] mg/kg	Migration to Groundwater[2] mg/kg	Number Analyzed	Number Detects	Number Detects >RRBC	Number Detects >IRBC	Number Detects > M2GW	Max Concentration Detected mg/kg
POLYNUCLEAR AROMATIC HYDROCARBONS										
ACENAPHTHENE	83-32-9	3700	38000	72.97	45	5	0	0	0	4.4
ANTHRACENE	120-12-7	22000	390000	1722.81	45	6	0	0	0	3.4
BENZO(A)ANTHRACENE	56-55-3	**0.62**	29	**1.45**	45	12	**2**	0	**1**	**5.3**
BENZO(A)PYRENE	50-32-8	**0.062**	**2.9**	**8.16**	45	11	**11**	**1**	**0**	**4.3**
BENZO(B)FLUORANTHENE	205-99-2	**0.62**	29	**4.47**	45	8	**2**	0	**1**	**5.1**
BENZO(G,H,I)PERYLENE[3]	191-24-2	6.2	290	500	45	6	0	0	0	2.3
BENZO(K)FLUORANTHENE	207-08-9	6.2	290	497.07	45	9	0	0	0	1.9
CHRYSENE	218-01-9	62	2900	144.76	45	14	0	0	0	4.3
DIBENZO(A,H)ANTHRACENE	53-70-3	**0.062**	2.9	1.4	45	2	**2**	0	0	**0.67**
FLUORANTHENE	206-44-0	2300	30000	6254.64	45	16	0	0	0	16
FLUORENE	86-73-7	2600	33000	77.87	45	3	0	0	0	1.4
INDENO(1,2,3-CD)PYRENE	193-39-5	**0.62**	29	12.62	45	7	**1**	0	0	**2.3**
NAPHTHALENE	91-20-3	56	190	**0.32**	45	16	0	0	**11**	**1.4**
PHENANTHRENE[3]	85-01-8	62	2900	1700	45	24	0	0	0	13
PYRENE	129-00-0	2300	54000	500	45	14	0	0	0	10
PESTICIDES										
4,4-DDT	50-29-3	1.7	120	20.53	45	1	0	0	0	0.0056
ALPHA-BHC	319-84-6	**0.09**	5.9	**0.0005**	45	13	**3**	0	**13**	**0.42**
BETA-BHC	319-85-7	**0.32**	21	**0.002**	45	11	**3**	0	**11**	**1.9**
DELTA-BHC	319-86-8	NE	NE	NE	45	2	NE	NE	NE	0.0079
ENDRIN	72-20-8	18	260	5.43	45	1	0	0	0	0.014
GAMMA-BHC (LINDANE)	58-89-9	0.44	29	**0.009**	45	4	0	0	**2**	**0.096**
HEPTACHLOR EPOXIDE	1024-57-3	0.053	2.7	0.67	45	1	0	0	0	0.0031
POLYCHLORINATED BIPHENYLS										
AROCLOR-1254	11097-69-1	0.22	10	NE	45	3	0	0	NE	0.056

Table 5. Surface Soil Analytical Summary
Marshall Army Chemicals Plant

Analyte	CAS No.	Residential RBC (RRBC)[1] mg/kg	Industrial RBC (IRBC)[1] mg/kg	Migration to Groundwater[2] mg/kg	Number Analyzed	Number Detects	Number Detects >RRBC	Number Detects >IRBC	Number Detects > M2GW	Max Concentration Detected mg/kg
METALS										
ALUMINUM	7429-90-5	76000	1000000	NE	45	45	0	0	NE	17000
ANTIMONY	7440-36-0	31	820	13.2	45	1	0	0	0	3.9
ARSENIC	7440-38-2	**0.39**	**27**	**29.2**	45	43	**43**	**4**	**4**	**47**
BARIUM	7440-39-3	**5400**	13000	**2105.32**	45	45	**1**	0	**1**	**9400**
BERYLLIUM	7440-41-7	154	3700	1153.69	45	43	0	0	0	1.6
CADMIUM	7440-43-9	37	810	27.45	45	37	0	0	0	1.5
CALCIUM	7440-70-2	NE	NE	NE	45	41	NE	NE	NE	23000
CHROMIUM	7440-47-3	**30**	660	**42**	45	43	**2**	0	**1**	**75**
COBALT	7440-48-4	4700	12000	NE	45	43	0	0	NE	13
COPPER	7440-50-8	2900	76000	NE	45	43	0	0	NE	310
CYANIDE	NL	11	35	40	45	26	0	0	0	1.8
IRON	7439-89-6	**23000**	610000	NE	45	45	**10**	0	NE	**76000**
LEAD	7439-92-1	400	1000	NE	45	43	0	0	NE	170
MAGNESIUM	7439-95-4	NE	NE	NE	45	44	NE	NE	NE	4400
MANGANESE	7439-96-5	1800	33000	NE	45	44	0	0	NE	1100
MERCURY, TOTAL	7439-97-6	23	610	NE	45	13	0	0	NE	8.1
NICKEL	7440-02-0	1600	41000	950	45	43	0	0	0	69
POTASSIUM	7440-09-7	NE	NE	NE	45	41	NE	NE	NE	1800
SELENIUM	7782-49-2	390	10000	19	45	9	0	0	0	3.7
SILVER	7440-22-4	390	10000	31	45	1	0	0	0	1.1
SODIUM	7440-23-5	NE	NE	NE	45	12	NE	NE	NE	930
THALLIUM	7440-28-0	5.2	130	3.4	45	1	0	0	0	2.5
VANADIUM	7440-62-2	550	14000	5100	45	43	0	0	0	220
ZINC	7440-66-6	23000	610000	14000	45	43	0	0	0	230

NOTES:

CAS No. = Chemical Abstract Service number
IRBC = Industrial Risk-Based Concentration
M2GW = Migration to Groundwater
mg/kg = milligrams per kilogram
NE = Not Established
NL = CAS No. Not Listed in laboratory analytical results.
RBC = Risk-Based concentration
RRBC = Residential Risk-Based Concentration
VRRA = Voluntary Remediation and Redevelopment Act
1 = RBCs obtained from West Virginia Voluntary Remediation and Redevelopment Act (WV VRRA) De Minimis Standard, revised 2002. This assessment uses the following reference standards for soil RBCs: 4-Methylphenol for 3- & 4-Methylphenol; Chromium VI for Chromium; and, Mercury & compounds for Mercury.
2 = Migration to Groundwater values obtained from VRRA Guidance Manual.
3 = Risk-based values obtained from WVDEP Supplemental Guidance on Polynuclear Aromatic Hydrocarbons (October 2002).
Bold entries indicate concentrations greater than their respective screening value.
Highlighted & bolded entries indicate concentrations greater than IRBCs.

Table 6. Subsurface Soil Analytical Summary
Marshall Army Chemicals Plant

Analyte	CAS No.	Residential RBC (RRBC) [1] mg/Kg	Industrial RBC (IRBC) [1] mg/Kg	Migration to Groundwater [2] mg/kg	Number Analyzed[3]	Number Detects	Number Detects >RRBC	Number Detects >IRBC	Number Detects >M2GW	Max Concentration Detected mg/Kg
VOLATILE ORGANIC COMPOUNDS										
1,1,1-TRICHLOROETHANE	71-55-6	640	3200	5.74	61	4	0	0	0	0.91
1,1,2,2-TETRACHLOROETHANE	79-34-5	**0.38**	**9**	**0.0003**	61	7	**2**	**1**	**6**	**16**
1,1,2-TRICHLOROETHANE	79-00-5	**0.83**	19	**0.03**	61	1	**1**	0	**1**	**5.1**
1,1-DICHLOROETHANE	75-34-3	590	2100	5.29	61	1	0	0	0	0.0074
1,2,4-TRICHLOROBENZENE	120-82-1	650	7600	13.7	61	14	0	0	0	3.4
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.45	6.9	**0.001**	61	2	0	0	**2**	**0.11**
1,2-DICHLOROBENZENE	95-50-1	900	3300	11.58	61	19	0	0	0	3.6
1,3-DICHLOROBENZENE	541-73-1	13	52	11.58	61	5	0	0	0	0.024
1,4-DICHLOROBENZENE	106-46-7	**3.4**	**81**	**2.02**	61	23	**2**	**1**	**2**	**100**
2-BUTANONE	78-93-3	7300	28000	7.96	61	10	0	0	0	0.35
ACETONE	67-64-1	160	6200	2.45	61	40	0	0	0	0.76
BENZENE	71-43-2	0.65	15	**0.034**	61	2	0	0	**1**	**0.062**
CARBON DISULFIDE	75-15-0	360	1200	8.32	61	2	0	0	0	0.055
CARBON TETRACHLORIDE	56-23-5	**0.24**	**5.3**	**0.061**	61	3	**1**	**1**	**2**	**8.6**
CHLOROBENZENE	108-90-7	150	540	**1.4**	61	18	0	0	**2**	**94**
CHLOROETHANE	75-00-3	3	65	**0.02**	61	1	0	0	**1**	**0.024**
CHLOROFORM	67-66-3	**0.24**	**1.3**	**0.001**	61	6	**2**	**1**	**6**	**38**
CIS-1,2-DICHLOROETHENE	156-59-2	43	150	**0.4**	61	10	0	0	**1**	**0.79**
ETHYLBENZENE	100-41-4	1500	6000	17.04	61	3	0	0	0	1
ISOPROPYLBENZENE	98-82-8	160	520	62.68	61	1	0	0	0	0.1
METHYL T-BUTYL ETHER	1634-04-4	NE	NE	NE	61	2	NE	NE	NE	0.052
METHYLENE CHLORIDE	75-09-2	8.8	210	**0.023**	61	1	0	0	**1**	**0.15**
TETRACHLOROETHENE	127-18-4	**5.7**	**190**	**0.08**	61	47	**8**	**1**	**21**	**380**
TOLUENE	108-88-3	590	2000	10.07	61	2	0	0	0	1.3
TRICHLOROETHENE	79-01-6	**2.7**	**61**	**0.042**	61	23	**3**	**1**	**10**	**120**
VINYL CHLORIDE	75-01-4	0.15	8.3	**0.013**	61	4	0	0	**2**	**0.12**
XYLENES (TOTAL)	1330-20-7	1400	4500	120	61	3	0	0	0	2.8
SEMIVOLATILE ORGANIC COMPOUNDS										
2-METHYLNAPHTHALENE	91-57-6	NE	NE	NE	60	2	NE	NE	NE	110
2-METHYLPHENOL	95-48-7	1.8	3100	14	60	1	0	0	0	0.38
3- & 4-METHYLPHENOL		310	4400	NE	60	2	0	0	NE	3.6
ACENAPHTHYLENE	208-96-8	NE	NE	NE	60	1	NE	NE	NE	3.6
BIPHENYL	92-52-4	3000	30000	96	60	2	0	0	0	**21**
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	35	1800	3600	60	2	0	0	0	0.47
BUTYL BENZYL PHTHALATE	85-68-7	12000	180000	17000	60	1	0	0	0	0.56
CARBAZOLE	86-74-8	**24**	1200	**0.46**	60	2	**1**	0	**1**	**170**

Table 6. Subsurface Soil Analytical Summary
Marshall Army Chemicals Plant

Analyte	CAS No.	Residential RBC (RRBC) [1] mg/Kg	Industrial RBC (IRBC) [1] mg/Kg	Migration to Groundwater [2] mg/kg	Number Analyzed[3]	Number Detects	Number Detects >RRBC	Number Detects >IRBC	Number Detects >M2GW	Max Concentration Detected mg/Kg
DIBENZOFURAN	132-64-9	290	5100	**7.65**	60	2	0	0	**1**	**110**
HEXACHLOROBENZENE	118-74-1	**0.3**	15	2.2	60	2	**1**	0	0	**1.4**
HEXACHLOROBUTADIENE	87-68-3	6.2	260	1.83	60	3	0	0	0	0.25
HEXACHLOROETHANE	67-72-1	35	880	**0.36**	60	3	0	0	**2**	**1.2**
PHENANTHRENE	85-01-8	NE	NE	NE	60	3	NE	NE	NE	1100
PHENOL	108-95-2	37000	530000	110	60	1	0	0	0	11
POLYNUCLEAR AROMATIC HYDROCARBONS										
ACENAPHTHENE	83-32-9	3700	38000	**73**	60	2	0	0	**1**	**160**
ANTHRACENE	120-12-7	22000	390000	1722.81	60	2	0	0	0	330
BENZO(A)ANTHRACENE	56-55-3	**0.62**	**29**	**1.45**	**60**	**2**	**2**	**1**	**1**	**400**
BENZO(A)PYRENE	50-32-8	**0.062**	**2.9**	**8.16**	**60**	**2**	**2**	**1**	**1**	**350**
BENZO(B)FLUORANTHENE	205-99-2	**0.62**	**29**	**4.47**	**60**	**2**	**1**	**1**	**1**	**390**
BENZO(G,H,I)PERYLENE	191-24-2	**6.2**	290	500	60	2	**1**	0	0	**140**
BENZO(K)FLUORANTHENE	207-08-9	**6.2**	290	497.07	60	2	**1**	0	0	**150**
CHRYSENE	218-01-9	**62**	2900	**144.76**	60	2	**1**	0	**1**	**370**
DIBENZO(A,H)ANTHRACENE	53-70-3	**0.062**	**2.9**	**1.4**	**60**	1	**1**	**1**	**1**	**40**
FLUORANTHENE	206-44-0	2300	30000	6254.64	60	2	0	0	0	1.6
FLUORENE	86-73-7	2600	33000	**77.87**	60	2	0	0	**1**	**170**
INDENO(1,2,3-CD)PYRENE	193-39-5	**0.62**	**29**	**12.62**	**60**	2	**1**	**1**	**1**	**140**
NAPHTHALENE	91-20-3	56	190	**0.32**	60	3	0	0	**4**	**1.6**
PYRENE	129-00-0	2300	54000	**500**	60	2	0	0	**1**	**880**
PESTICIDES										
ALPHA-BHC	319-84-6	0.09	5.9	**0.0005**	60	4	0	0	**4**	**0.0056**
BETA-BHC	319-85-7	**0.32**	21	**0.002**	60	6	**1**	0	**6**	**1.9**
DELTA-BHC	319-86-8	NE	NE	NE	60	1	NE	NE	NE	0.0005
ENDRIN	72-20-8	18	260	5.43	60	1	0	0	0	0.0008
ENDRIN KETONE	53494-70-5	NE	NE	NE	60	1	NE	NE	NE	0.0006
GAMMA-BHC (LINDANE)	58-89-9	0.44	29	0.009	60	4	0	0	0	0.0086
METALS										
ALUMINUM	7429-90-5	76000	1000000	NE	60	60	0	0	NE	13000
ARSENIC	7440-38-2	**0.39**	27	29.2	60	56	**56**	0	0	**26**
BARIUM	7440-39-3	5400	13000	2100	60	60	0	0	0	240
BERYLLIUM	7440-41-7	154	3700	1200	60	55	0	0	0	0.99
CADMIUM	7440-43-9	37	810	27	60	36	0	0	0	1.5
CALCIUM	7440-70-2	NE	NE	NE	60	59	NE	NE	NE	16000
CHROMIUM	7440-47-3	**30**	660	**42**	60	56	**2**	0	**1**	**120**
COBALT	7440-48-4	4700	12000	NE	60	56	0	0	NE	13

Table 6. Subsurface Soil Analytical Summary
Marshall Army Chemicals Plant

Analyte	CAS No.	Residential RBC (RRBC) [1] mg/Kg	Industrial RBC (IRBC) [1] mg/Kg	Migration to Groundwater [2] mg/kg	Number Analyzed[3]	Number Detects	Number Detects >RRBC	Number Detects >IRBC	Number Detects >M2GW	Max Concentration Detected mg/Kg
COPPER	7440-50-8	2900	76000	NE	60	56	0	0	NE	32
CYANIDE	NL	11	35	40	60	9	0	0	0	1.1
IRON	7439-89-6	**23000**	610000	NE	60	60	**15**	0	NE	**29000**
LEAD	7439-92-1	400	1000	NE	60	57	0	0	NE	38
MAGNESIUM	7439-95-4	NE	NE	NE	60	58	NE	NE	NE	2300
MANGANESE	7439-96-5	1800	33000	NE	60	60	0	0	NE	1200
MERCURY, TOTAL	7439-97-6	23	610	NE	60	3	0	0	NE	0.44
NICKEL	7440-02-0	1600	41000	950	60	56	0	0	0	23
POTASSIUM	7440-09-7	NE	NE	NE	60	56	NE	NE	NE	2200
SELENIUM	7782-49-2	390	10000	19	60	11	0	0	0	1.7
SODIUM	7440-23-5	NE	NE	NE	60	18	NE	NE	NE	7300
VANADIUM	7440-62-2	**550**	14000	5100	60	56	**1**	0	0	**730**
ZINC	7440-66-6	23000	610000	14000	60	56	0	0	0	70

NOTES:

CAS No. = Chemical Abstract Service number
IRBC = Industrial Risk-Based Concentration
M2GW = Migration to Groundwater
mg/kg = milligrams per kilogram
NE = Not Established
NL = CAS No. Not Listed in laboratory analytical results.
RBC = Risk-Based concentration
RRBC = Residential Risk-Based Concentration
VRRA = Voluntary Remediation and Redevelopment Act
1 = RBCs obtained from West Virginia Voluntary Remediation and Redevelopment Act (WV VRRA) De Minimis Standard, revised 2002. This assessment uses the following reference standards for soil RBCs: 4-Methylphenol for 3- & 4-Methylphenol; Chromium VI for Chromium; Mercury & compounds for Mercury; and, Vinyl Chloride (lifetime) for the RRBC and Vinyl Chloride (adult) for the IRBC.
2 = Migration to Groundwater values obtained from VRRA Guidance Manual.
3 = The number of samples analyzed varies due to insufficient sample recovery at some sample locations.

Table 7. Analytes Detected in Groundwater
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/L)
MWDEP-1A (4/11/03)		
	1,1,2-TRICHLOROETHANE	0.0035
	CIS-1,2-DICHLOROETHENE	0.0035
	TETRACHLOROETHENE	**1.1**
	TRICHLOROETHENE	**0.065**
	BIS(2-ETHYLHEXYL) PHTHALATE	**0.027**
	HEXACHLOROETHANE	**0.059**
	ALUMINUM, DISSOLVED	5.4
	ARSENIC, DISSOLVED	0.0073
	BARIUM, DISSOLVED	0.93
	BERYLLIUM, DISSOLVED	0.0042
	CADMIUM, DISSOLVED	0.0014
	CALCIUM, DISSOLVED	120
	COPPER, DISSOLVED	0.024
	IRON, DISSOLVED	0.18
	MAGNESIUM, DISSOLVED	13
	MANGANESE, DISSOLVED	1.5
	MERCURY, DISSOLVED	0.0017
	NICKEL, DISSOLVED	0.037
	POTASSIUM, DISSOLVED	4.7
	SODIUM, DISSOLVED	33
	ZINC, DISSOLVED	0.093
MWDEP-1B (4/11/03)		
	1,1,1-TRICHLOROETHANE	0.00091
	1,1,2,2-TETRACHLOROETHANE	**0.0049**
	1,1-DICHLOROETHANE	0.0008
	1,1-DICHLOROETHENE	0.0038
	1,2,4-TRICHLOROBENZENE	0.014
	1,2-DICHLOROBENZENE	0.19
	1,2-DICHLOROETHANE	0.00066
	1,3-DICHLOROBENZENE	0.057
	1,4-DICHLOROBENZENE	**0.083**
	BENZENE	0.0041
	CHLOROBENZENE	0.05
	CHLOROFORM	**0.016**
	CIS-1,2-DICHLOROETHENE	0.0021
	TETRACHLOROETHENE	**0.091**
	TRANS-1,2-DICHLOROETHENE	0.00092
	TRICHLOROETHENE	**0.028**
	BIS(2-ETHYLHEXYL) PHTHALATE	**0.015**
	BETA-BHC	**0.0012**
	ALUMINUM, DISSOLVED	0.30
	ARSENIC, DISSOLVED	0.0068
	BARIUM, DISSOLVED	0.026
	CALCIUM, DISSOLVED	3.6
	COPPER, DISSOLVED	0.068
	IRON, DISSOLVED	0.41
	MAGNESIUM, DISSOLVED	0.12
	MANGANESE, DISSOLVED	0.056
	MERCURY, DISSOLVED	**0.051**
	SODIUM, DISSOLVED	460

Table 7. Analytes Detected in Groundwater
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/L)
MWDEP-2A (4/11/03)		
	1,1,1-TRICHLOROETHANE	0.023
	1,1,2,2-TETRACHLOROETHANE	**2**
	1,2,4-TRICHLOROBENZENE	0.051
	1,2-DICHLOROBENZENE	**1.1**
	1,3-DICHLOROBENZENE	0.19
	1,4-DICHLOROBENZENE	**1.1**
	CHLOROBENZENE	**0.76**
	CIS-1,2-DICHLOROETHENE	0.0051
	TETRACHLOROETHENE	**1.6**
	TRICHLOROETHENE	**1.3**
	BIS(2-ETHYLHEXYL) PHTHALATE	**0.022**
	ALPHA-BHC	0.00017
	BETA-BHC	**0.00017**
	GAMMA-BHC	0.0002
	AROCLOR-1254	0.0008
	ALUMINUM, DISSOLVED	5.2
	BARIUM, DISSOLVED	0.67
	BERYLLIUM, DISSOLVED	0.0035
	CADMIUM, DISSOLVED	0.0019
	CALCIUM, DISSOLVED	170
	COBALT, DISSOLVED	0.012
	COPPER, DISSOLVED	0.022
	IRON, DISSOLVED	0.72
	MAGNESIUM, DISSOLVED	12
	MANGANESE, DISSOLVED	3.6
	MERCURY, DISSOLVED	0.0010
	NICKEL, DISSOLVED	0.037
	POTASSIUM, DISSOLVED	5.6
	SODIUM, DISSOLVED	80
	ZINC, DISSOLVED	0.089
MWDEP-2B (4/11/03)		
	1,1,2,2-TETRACHLOROETHANE	**0.12**
	1,2,4-TRICHLOROBENZENE	**1.6**
	1,2-DICHLOROBENZENE	**0.9**
	1,3-DICHLOROBENZENE	**0.87**
	1,4-DICHLOROBENZENE	**1.1**
	CHLOROBENZENE	0.067
	CHLOROFORM	**0.092**
	TETRACHLOROETHENE	**0.18**
	TRICHLOROETHENE	**0.074**
	BIS(2-ETHYLHEXYL) PHTHALATE	**0.015**
	BETA-BHC	**0.00046**
	ALUMINUM, DISSOLVED	0.40
	ARSENIC, DISSOLVED	0.017
	BARIUM, DISSOLVED	0.012
	CALCIUM, DISSOLVED	1.6
	COPPER, DISSOLVED	0.029
	IRON, DISSOLVED	0.62
	MAGNESIUM, DISSOLVED	0.088
	MANGANESE, DISSOLVED	0.036
	MERCURY, DISSOLVED	**0.042**
	POTASSIUM, DISSOLVED	1.2
	SODIUM, DISSOLVED	480
	VANADIUM, DISSOLVED	0.0086

Table 7. Analytes Detected in Groundwater
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/L)
MWDEP-3A (4/11/03)		
	1,1,1-TRICHLOROETHANE	0.036
	1,1,2,2-TETRACHLOROETHANE	**0.12**
	1,2,4-TRICHLOROBENZENE	0.033
	1,2-DICHLOROBENZENE	**1.4**
	1,3-DICHLOROBENZENE	0.46
	1,4-DICHLOROBENZENE	**1.4**
	BENZENE	**0.032**
	CARBON TETRACHLORIDE	**0.011**
	CHLOROBENZENE	**2.7**
	CHLOROFORM	**0.041**
	TETRACHLOROETHENE	**0.52**
	TRICHLOROETHENE	**0.14**
	BIS(2-ETHYLHEXYL) PHTHALATE	**0.015**
	ALPHA-BHC	0.000066
	BETA-BHC	**0.000066**
	GAMMA-BHC	0.000051
	ALUMINUM, DISSOLVED	1.9
	BARIUM, DISSOLVED	0.23
	BERYLLIUM, DISSOLVED	0.0014
	CALCIUM, DISSOLVED	190
	COPPER, DISSOLVED	0.0072
	IRON, DISSOLVED	0.10
	MAGNESIUM, DISSOLVED	14
	MANGANESE, DISSOLVED	1.2
	MERCURY, DISSOLVED	0.00035
	NICKEL, DISSOLVED	0.014
	POTASSIUM, DISSOLVED	6.2
	SODIUM, DISSOLVED	72
	VANADIUM, DISSOLVED	0.042
	ZINC, DISSOLVED	0.040
MWDEP-3B (4/11/03)		
	1,2,4-TRICHLOROBENZENE	**0.36**
	1,2-DICHLOROBENZENE	**6.5**
	1,3-DICHLOROBENZENE	**2**
	1,4-DICHLOROBENZENE	**6.4**
	CHLOROBENZENE	**1.4**
	TETRACHLOROETHENE	**0.2**
	BETA-BHC	**0.00042**
	GAMMA-BHC	0.00006
	AROCLOR-1254	0.0014
	ALUMINUM, DISSOLVED	1.5
	ARSENIC, DISSOLVED	0.010
	BARIUM, DISSOLVED	0.17
	CALCIUM, DISSOLVED	59
	COPPER, DISSOLVED	0.052
	IRON, DISSOLVED	0.44
	MAGNESIUM, DISSOLVED	0.14
	MANGANESE, DISSOLVED	0.44
	MERCURY, DISSOLVED	**0.015**
	NICKEL, DISSOLVED	0.0056
	POTASSIUM, DISSOLVED	7.2
	SODIUM, DISSOLVED	1100
	ZINC, DISSOLVED	0.034

Table 7. Analytes Detected in Groundwater
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/L)
MWDEP-4A (4/11/03)		
	1,2-DICHLOROBENZENE	0.0022
	1,4-DICHLOROBENZENE	0.0017
	TETRACHLOROETHENE	**0.022**
	TRICHLOROETHENE	**0.0061**
	BIS(2-ETHYLHEXYL) PHTHALATE	**0.017**
	BETA-BHC	**0.00008**
	GAMMA-BHC	0.000033
	ALUMINUM, DISSOLVED	1.5
	BARIUM, DISSOLVED	0.10
	CALCIUM, DISSOLVED	140
	COPPER, DISSOLVED	0.0054
	IRON, DISSOLVED	2.2
	MAGNESIUM, DISSOLVED	11
	MANGANESE, DISSOLVED	0.12
	MERCURY, DISSOLVED	0.0045
	POTASSIUM, DISSOLVED	3.0
	SODIUM, DISSOLVED	25
	ZINC, DISSOLVED	0.024
MWDEP-4B (4/11/03)		
	BIS(2-ETHYLHEXYL) PHTHALATE	**0.026**
	ALUMINUM, DISSOLVED	0.18
	BARIUM, DISSOLVED	0.11
	CALCIUM, DISSOLVED	120
	IRON, DISSOLVED	0.20
	MAGNESIUM, DISSOLVED	11
	MANGANESE, DISSOLVED	0.063
	MERCURY, DISSOLVED	0.00027
	POTASSIUM, DISSOLVED	2.3
	SODIUM, DISSOLVED	18

Table 7. Analytes Detected in Groundwater
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/L)
MWDEP-5A (4/11/03)		
	1,2-DICHLOROBENZENE	0.18
	1,3-DICHLOROBENZENE	0.0084
	1,4-DICHLOROBENZENE	**0.2**
	BENZENE	**0.083**
	CHLOROBENZENE	**0.15**
	CIS-1,2-DICHLOROETHENE	**0.091**
	METHYLENE CHLORIDE	**0.0078**
	TETRACHLOROETHENE	**1.6**
	TRANS-1,2-DICHLOROETHENE	0.05
	TRICHLOROETHENE	**0.29**
	VINYL CHLORIDE	**0.029**
	ARSENIC, DISSOLVED	**0.54**
	BARIUM, DISSOLVED	0.052
	CALCIUM, DISSOLVED	3.2
	CHROMIUM, DISSOLVED	0.026
	COBALT, DISSOLVED	0.0060
	COPPER, DISSOLVED	0.024
	Cyanide	0.080
	MANGANESE, DISSOLVED	0.022
	MERCURY, DISSOLVED	0.00041
	NICKEL, DISSOLVED	0.17
	SELENIUM, DISSOLVED	0.040
	SODIUM, DISSOLVED	1600
	VANADIUM, DISSOLVED	**64**
	ZINC, DISSOLVED	0.035
MWDEP-5B (4/11/03)		
	1,2-DICHLOROBENZENE	0.0011
	1,4-DICHLOROBENZENE	0.0012
	TETRACHLOROETHENE	0.0007
	BETA-BHC	**0.000061**
	ALUMINUM, DISSOLVED	0.56
	BARIUM, DISSOLVED	0.13
	CALCIUM, DISSOLVED	50
	COPPER, DISSOLVED	0.011
	IRON, DISSOLVED	0.55
	MAGNESIUM, DISSOLVED	10
	MANGANESE, DISSOLVED	2.5
	NICKEL, DISSOLVED	0.0055
	POTASSIUM, DISSOLVED	2.6
	SELENIUM, DISSOLVED	0.0059
	SODIUM, DISSOLVED	23
	VANADIUM, DISSOLVED	0.024
	ZINC, DISSOLVED	0.025

Table 7. Analytes Detected in Groundwater
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/L)
MWDEP-6A (4/11/03)		
	1,2,4-TRICHLOROBENZENE	0.012
	1,2-DICHLOROBENZENE	0.11
	1,3-DICHLOROBENZENE	0.024
	1,4-DICHLOROBENZENE	**0.15**
	CHLOROBENZENE	0.032
	CIS-1,2-DICHLOROETHENE	**0.84**
	TETRACHLOROETHENE	**0.19**
	TRICHLOROETHENE	**0.11**
	VINYL CHLORIDE	**0.29**
	BIS(2-ETHYLHEXYL) PHTHALATE	**0.015**
	BETA-BHC	**0.0015**
	DIELDRIN	**0.00024**
	HEPTACHLOR	0.00013
	AROCLOR-1254	0.0017
	ALUMINUM, DISSOLVED	1.8
	BARIUM, DISSOLVED	0.42
	CADMIUM, DISSOLVED	0.0023
	CALCIUM, DISSOLVED	73
	COBALT, DISSOLVED	0.022
	COPPER, DISSOLVED	0.011
	IRON, DISSOLVED	0.80
	LEAD, DISSOLVED	0.0063
	MAGNESIUM, DISSOLVED	9.5
	MANGANESE, DISSOLVED	5.7
	MERCURY, DISSOLVED	0.00032
	NICKEL, DISSOLVED	0.021
	POTASSIUM, DISSOLVED	1.5
	SODIUM, DISSOLVED	170
	ZINC, DISSOLVED	0.042
MWDEP-6B (4/11/03)		
	1,2-DICHLOROBENZENE	0.0013
	1,4-DICHLOROBENZENE	0.0019
	CIS-1,2-DICHLOROETHENE	0.0033
	TETRACHLOROETHENE	0.001
	TRICHLOROETHENE	0.0016
	VINYL CHLORIDE	0.00073
	BETA-BHC	0.000031
	ALUMINUM, DISSOLVED	1.4
	BARIUM, DISSOLVED	0.26
	BERYLLIUM, DISSOLVED	0.0012
	CALCIUM, DISSOLVED	69
	COBALT, DISSOLVED	0.013
	COPPER, DISSOLVED	0.028
	IRON, DISSOLVED	1.0
	LEAD, DISSOLVED	0.0094
	MAGNESIUM, DISSOLVED	15
	MANGANESE, DISSOLVED	6.1
	NICKEL, DISSOLVED	0.011
	POTASSIUM, DISSOLVED	3.0
	SELENIUM, DISSOLVED	0.0053
	SODIUM, DISSOLVED	27
	THALLIUM, DISSOLVED	**0.028**
	ZINC, DISSOLVED	0.032

Table 7. Analytes Detected in Groundwater
Marshall Army Chemicals Plant

Notes:

mg/L = milligrams per liter
Highlighted & bolded entries indicate concentrations greater than their respective Groundwater Risk-Based Concentrations (GW-RBCs).
GW-RBCs were obtained from the West Virginia Voluntary Remediation and Redevelopment Act (WV VRRA) De Minimis Standard, revised 2002.

Table 8. Groundwater Analytical Summary
Marshall Army Chemicals Plant

Analyte	CAS No.	Groundwater RBC GWRBC	Number Analyzed	Number Detects	Number Detects >GWRBC	Max Concentration Detected	Units
VOLATILE ORGANIC COMPOUNDS							
1,1,1-TRICHLOROETHANE	71-55-6	0.54	12	1	0	0.036	mg/L
1,1,2,2-TETRACHLOROETHANE	**79-34-5**	**0.00055**	**12**	**4**	**4**	**2**	**mg/L**
1,1,2-TRICHLOROETHANE	79-00-5	0.005	12	1	0	0.0035	mg/L
1,1-DICHLOROETHANE	75-34-3	0.81	12	1	0	0.0008	mg/L
1,1-DICHLOROETHENE	75-35-4	0.007	12	1	0	0.0038	mg/L
1,2,4-TRICHLOROBENZENE	**120-82-1**	**0.19**	**12**	**6**	**2**	**1.6**	**mg/L**
1,2-DICHLOROBENZENE	**95-50-1**	**0.6**	**12**	**10**	**4**	**6.5**	**mg/L**
1,2-DICHLOROETHANE	107-06-2	0.005	12	1	0	0.0007	mg/L
1,3-DICHLOROBENZENE	**541-73-1**	**0.6**	**12**	**7**	**2**	**2**	**mg/L**
1,4-DICHLOROBENZENE	**106-46-7**	**0.07**	**12**	**10**	**7**	**6.4**	**mg/L**
BENZENE	**71-43-2**	**0.005**	**12**	**3**	**2**	**0.083**	**mg/L**
CARBON TETRACHLORIDE	**56-23-5**	**0.005**	**12**	**1**	**1**	**0.011**	**mg/L**
CHLOROBENZENE	**108-90-7**	**0.11**	**12**	**7**	**4**	**2.7**	**mg/L**
CHLOROFORM	**67-66-3**	**0.00016**	**12**	**3**	**3**	**0.092**	**mg/L**
CIS-1,2-DICHLOROETHENE	**156-59-2**	**0.07**	**12**	**6**	**2**	**0.84**	**mg/L**
METHYLENE CHLORIDE	**75-09-2**	**0.005**	**12**	**1**	**1**	**0.0078**	**mg/L**
TETRACHLOROETHENE	**127-18-4**	**0.005**	**12**	**11**	**9**	**1.6**	**mg/L**
TRANS-1,2-DICHLOROETHENE	156-60-5	0.12	12	2	0	0.05	mg/L
TRICHLOROETHENE	**79-01-6**	**0.005**	**12**	**9**	**8**	**1.3**	**mg/L**
VINYL CHLORIDE	**75-01-4**	**0.002**	**12**	**3**	**2**	**0.29**	**mg/L**
SEMIVOLATILE ORGANIC COMPOUNDS							
BIS(2-ETHYLHEXYL) PHTHALATE	**117-81-7**	**0.006**	**12**	**8**	**8**	**0.027**	**mg/L**
HEXACHLOROETHANE	**67-72-1**	**0.0047**	**12**	**1**	**1**	**0.059**	**mg/L**
PESTICIDES							
ALPHA-BHC	319-84-6	0.000011	12	2	0	0.0002	mg/L
BETA-BHC	**319-85-7**	**0.000037**	**12**	**9**	**8**	**0.0015**	**mg/L**
DIELDRIN	**60-57-1**	**0.000004**	**12**	**1**	**1**	**0.00024**	**mg/L**
GAMMA-BHC	58-89-9	0.002	12	4	0	0.0002	mg/L
HEPTACHLOR	76-44-8	0.0004	12	1	0	0.00013	mg/L
POLYCHLORINATED BIPHENYLS							
AROCLOR-1254	11097-69-1	0.000033	12	3	0	0.0017	mg/L

Table 8. Groundwater Analytical Summary
Marshall Army Chemicals Plant

Analyte	CAS No.	Groundwater RBC GWRBC	Number Analyzed	Number Detects	Number Detects >GWRBC	Max Concentration Detected	Units
METALS							
ALUMINUM, DISSOLVED	7429-90-5	37	12	11	0	5.4	mg/L
ARSENIC, DISSOLVED	**7440-38-2**	**0.05**	**12**	**5**	**1**	**0.54**	**mg/L**
BARIUM, DISSOLVED	7440-39-3	2.6	12	12	0	0.93	mg/L
BERYLLIUM, DISSOLVED	7440-41-7	0.073	12	4	0	0.0042	mg/L
CADMIUM, DISSOLVED	7440-43-9	0.018	12	3	0	0.0023	mg/L
CALCIUM, DISSOLVED	7440-70-2	NE	12	NE	NE	190	mg/L
CHROMIUM, DISSOLVED	7440-47-3	0.11	12	1	0	0.026	mg/L
COBALT, DISSOLVED	7440-48-4	2.19	12	4	0	0.022	mg/L
COPPER, DISSOLVED	7440-50-8	2.19	12	11	0	0.068	mg/L
CYANIDE	NL	0.2	12	1	0	0.080	mg/L
IRON, DISSOLVED	7439-89-6	11	12	11	0	2.2	mg/L
LEAD, DISSOLVED	7439-92-1	0.015	12	2	0	0.0094	mg/L
MAGNESIUM, DISSOLVED	7439-95-4	NE	12	11	NE	15	mg/L
MANGANESE, DISSOLVED	7439-96-5	NE	12	12	NE	6.1	mg/L
MERCURY, DISSOLVED	**7439-97-6**	**0.011**	**12**	**10**	**3**	**0.051**	**mg/L**
NICKEL, DISSOLVED	7440-02-0	0.73	12	8	0	0.17	mg/L
POTASSIUM, DISSOLVED	7440-09-7	NE	12	10	NE	7.2	mg/L
SELENIUM, DISSOLVED	7782-49-2	0.18	12	3	0	0.040	mg/L
SODIUM, DISSOLVED	7440-23-5	NE	12	12	NE	1600	mg/L
THALLIUM, DISSOLVED	**7440-28-0**	**0.0024**	**12**	**1**	**1**	**0.028**	**mg/L**
VANADIUM, DISSOLVED	**7440-62-2**	**0.26**	**12**	**5**	**1**	**64**	**mg/L**
ZINC, DISSOLVED	7440-66-6	11	12	9	0	0.093	mg/L

NOTES:

CAS No. = Chemical Abstract Service number
NL = CAS No. Not Listed in laboratory analytical results.
mg/L = milligrams per liter
NE = Not Established
West Virginia Voluntary Remediation and Redevelopment
GWRBC = Groundwater Risk-Based Concentrations obtained from the West Virginia Voluntary Remediation and Redevelopment Act (WV VRRA) De Minimis Standard, revised 2002.
This assessment uses the following reference standards for GW RBCs: Chromium VI for Chromium, Dissolved; Mercury & compounds for Mercury, Dissolved; and, Lead (*) for Lead
Highlighted & bolded entries indicate concentrations greater than the GW RBC.

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
SB-5 0-2'	ACETONE	67-64-1	0.019		0.012	mg/kg	9.38
RSS-1 2-10-03	ACETONE	67-64-1	0.013		0.012	mg/kg	
SB-5 0-2'	ALUMINUM	7429-90-5	6400		18	mg/kg	6.76
RSS-1 2-10-03	ALUMINUM	7429-90-5	8400		18	mg/kg	
SB-5 0-2'	ARSENIC	7440-38-2	9.1		0.91	mg/kg	3.22
RSS-1 2-10-03	ARSENIC	7440-38-2	8		0.88	mg/kg	
SB-5 0-2'	BARIUM	7440-39-3	100		0.18	mg/kg	14.29
RSS-1 2-10-03	BARIUM	7440-39-3	180		0.18	mg/kg	
SB-5 0-2'	BERYLLIUM	7440-41-7	0.61		0.18	mg/kg	4.48
RSS-1 2-10-03	BERYLLIUM	7440-41-7	0.73		0.18	mg/kg	
SB-5 0-2'	CADMIUM	7440-43-9	0.82		0.18	mg/kg	8.99
RSS-1 2-10-03	CADMIUM	7440-43-9	0.57		0.18	mg/kg	
SB-5 0-2'	CALCIUM	7440-70-2	140		9.1	mg/kg	1.72
RSS-1 2-10-03	CALCIUM	7440-70-2	150		8.8	mg/kg	
SB-5 0-2'	CHROMIUM	7440-47-3	8.1		0.91	mg/kg	1.59
RSS-1 2-10-03	CHROMIUM	7440-47-3	7.6		0.88	mg/kg	
SB-5 0-2'	COBALT	7440-48-4	6.2		0.91	mg/kg	1.94
RSS-1 2-10-03	COBALT	7440-48-4	6.7		0.88	mg/kg	
SB-5 0-2'	COPPER	7440-50-8	9.3		0.91	mg/kg	1.81
RSS-1 2-10-03	COPPER	7440-50-8	10		0.88	mg/kg	
SB-5 0-2'	CYANIDE	NL	0.14		0.12	mg/kg	7.58
RSS-1 2-10-03	CYANIDE	NL	0.19		0.12	mg/kg	
SB-5 0-2'	IRON	7439-89-6	24000		9.1	mg/kg	18.57
RSS-1 2-10-03	IRON	7439-89-6	11000		8.8	mg/kg	
SB-5 0-2'	LEAD	7439-92-1	10		0.91	mg/kg	4.55
RSS-1 2-10-03	LEAD	7439-92-1	12		0.88	mg/kg	
SB-5 0-2'	MAGNESIUM	7439-95-4	970		9.1	mg/kg	0.76
RSS-1 2-10-03	MAGNESIUM	7439-95-4	1000		8.8	mg/kg	
SB-5 0-2'	MANGANESE	7439-96-5	860		1.8	mg/kg	10.19
RSS-1 2-10-03	MANGANESE	7439-96-5	1300		1.8	mg/kg	
SB-5 0-2'	NICKEL	7440-02-0	8.6		0.91	mg/kg	6.12
RSS-1 2-10-03	NICKEL	7440-02-0	11		0.88	mg/kg	
SB-5 0-2'	POTASSIUM	7440-09-7	320		180	mg/kg	2.94
RSS-1 2-10-03	POTASSIUM	7440-09-7	360		180	mg/kg	
SB-5 0-2'	VANADIUM	7440-62-2	13		0.91	mg/kg	2.00
RSS-1 2-10-03	VANADIUM	7440-62-2	12		0.88	mg/kg	
SB-5 0-2'	ZINC	7440-66-6	43		3.6	mg/kg	4.26
RSS-1 2-10-03	ZINC	7440-66-6	51		3.5	mg/kg	
SB-14 0-4'	ACETONE	67-64-1	0.026		0.012	mg/kg	15.00
RSS-2 2-11-03	ACETONE	67-64-1	0.014		0.012	mg/kg	
SB-14 0-4'	2-METHYLNAPHTHALENE	91-57-6	0.35	J	0.41	mg/kg	NA
SB-14 0-4'	NAPHTHALENE	91-20-3	0.3	J	0.41	mg/kg	NA
SB-14 0-4'	PHENANTHRENE	85-01-8	0.16	J	0.41	mg/kg	NA
SB-14 0-4'	ALUMINUM	7429-90-5	9400		18	mg/kg	3.41
RSS-2 2-11-03	ALUMINUM	7429-90-5	8200		18	mg/kg	
SB-14 0-4'	ARSENIC	7440-38-2	13		0.92	mg/kg	2.00
RSS-2 2-11-03	ARSENIC	7440-38-2	12		0.92	mg/kg	
SB-14 0-4'	BARIUM	7440-39-3	30		0.18	mg/kg	35.00
RSS-2 2-11-03	BARIUM	7440-39-3	170		0.18	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
SB-14 0-4'	BERYLLIUM	7440-41-7	0.43		0.18	mg/kg	1.14
RSS-2 2-11-03	BERYLLIUM	7440-41-7	0.45		0.18	mg/kg	
SB-14 0-4'	CADMIUM	7440-43-9	0.65		0.18	mg/kg	1.59
RSS-2 2-11-03	CADMIUM	7440-43-9	0.61		0.18	mg/kg	
SB-14 0-4'	CALCIUM	7440-70-2	330		9.2	mg/kg	28.43
RSS-2 2-11-03	CALCIUM	7440-70-2	1200		9.2	mg/kg	
SB-14 0-4'	CHROMIUM	7440-47-3	11		0.92	mg/kg	2.38
RSS-2 2-11-03	CHROMIUM	7440-47-3	10		0.92	mg/kg	
SB-14 0-4'	COBALT	7440-48-4	10		0.92	mg/kg	4.95
RSS-2 2-11-03	COBALT	7440-48-4	8.2		0.92	mg/kg	
SB-14 0-4'	COPPER	7440-50-8	20		0.92	mg/kg	4.05
RSS-2 2-11-03	COPPER	7440-50-8	17		0.92	mg/kg	
SB-14 0-4'	CYANIDE	NL	0.18		0.12	mg/kg	NA
SB-14 0-4'	IRON	7439-89-6	23000		9.2	mg/kg	1.11
RSS-2 2-11-03	IRON	7439-89-6	22000		9.2	mg/kg	
SB-14 0-4'	LEAD	7439-92-1	13		0.92	mg/kg	6.67
RSS-2 2-11-03	LEAD	7439-92-1	17		0.92	mg/kg	
SB-14 0-4'	MAGNESIUM	7439-95-4	1800		9.2	mg/kg	0.00
RSS-2 2-11-03	MAGNESIUM	7439-95-4	1800		9.2	mg/kg	
SB-14 0-4'	MANGANESE	7439-96-5	460		1.8	mg/kg	3.49
RSS-2 2-11-03	MANGANESE	7439-96-5	400		1.8	mg/kg	
SB-14 0-4'	NICKEL	7440-02-0	14		0.92	mg/kg	3.85
RSS-2 2-11-03	NICKEL	7440-02-0	12		0.92	mg/kg	
SB-14 0-4'	POTASSIUM	7440-09-7	750		180	mg/kg	9.06
RSS-2 2-11-03	POTASSIUM	7440-09-7	520		180	mg/kg	
SB-14 0-4'	SODIUM	7440-23-5	720		180	mg/kg	0.68
RSS-2 2-11-03	SODIUM	7440-23-5	740		180	mg/kg	
SB-14 0-4'	VANADIUM	7440-62-2	16		0.92	mg/kg	3.33
RSS-2 2-11-03	VANADIUM	7440-62-2	14		0.92	mg/kg	
SB-14 0-4'	ZINC	7440-66-6	54		3.7	mg/kg	1.92
RSS-2 2-11-03	ZINC	7440-66-6	50		3.7	mg/kg	
SB-7 0-2'	ACETONE	67-64-1	0.011	J	0.012	mg/kg	33.58
RSS-3 2-12-03	ACETONE	67-64-1	0.056		0.012	mg/kg	
SB-7 0-2'	ALUMINUM	7429-90-5	6600		17	mg/kg	1.82
RSS-3 2-12-03	ALUMINUM	7429-90-5	7100		18	mg/kg	
SB-7 0-2'	ARSENIC	7440-38-2	8.2		0.87	mg/kg	7.29
RSS-3 2-12-03	ARSENIC	7440-38-2	11		0.9	mg/kg	
SB-7 0-2'	BARIUM	7440-39-3	190		0.17	mg/kg	39.39
RSS-3 2-12-03	BARIUM	7440-39-3	1600		0.18	mg/kg	
SB-7 0-2'	BERYLLIUM	7440-41-7	0.49		0.17	mg/kg	13.43
RSS-3 2-12-03	BERYLLIUM	7440-41-7	0.85		0.18	mg/kg	
SB-7 0-2'	CADMIUM	7440-43-9	0.54		0.17	mg/kg	5.74
RSS-3 2-12-03	CADMIUM	7440-43-9	0.68		0.18	mg/kg	
SB-7 0-2'	CALCIUM	7440-70-2	260		8.7	mg/kg	8.73
RSS-3 2-12-03	CALCIUM	7440-70-2	370		9	mg/kg	
SB-7 0-2'	CHROMIUM	7440-47-3	9.8		0.87	mg/kg	0.51
RSS-3 2-12-03	CHROMIUM	7440-47-3	10		0.9	mg/kg	
SB-7 0-2'	COBALT	7440-48-4	5.9		0.87	mg/kg	6.93
RSS-3 2-12-03	COBALT	7440-48-4	7.8		0.9	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
SB-7 0-2'	COPPER	7440-50-8	12		0.87	mg/kg	0.00
RSS-3 2-12-03	COPPER	7440-50-8	12		0.9	mg/kg	
RSS-3 2-12-03	CYANIDE	NL	0.26		0.12	mg/kg	NA
SB-7 0-2'	IRON	7439-89-6	17000		8.7	mg/kg	6.41
RSS-3 2-12-03	IRON	7439-89-6	22000		9	mg/kg	
SB-7 0-2'	LEAD	7439-92-1	10		0.87	mg/kg	22.97
RSS-3 2-12-03	LEAD	7439-92-1	27		0.9	mg/kg	
SB-7 0-2'	MAGNESIUM	7439-95-4	1200		8.7	mg/kg	2.17
RSS-3 2-12-03	MAGNESIUM	7439-95-4	1100		9	mg/kg	
SB-7 0-2'	MANGANESE	7439-96-5	630		1.7	mg/kg	5.63
RSS-3 2-12-03	MANGANESE	7439-96-5	790		1.8	mg/kg	
SB-7 0-2'	NICKEL	7440-02-0	10		0.87	mg/kg	4.55
RSS-3 2-12-03	NICKEL	7440-02-0	12		0.9	mg/kg	
SB-7 0-2'	POTASSIUM	7440-09-7	540		170	mg/kg	5.10
RSS-3 2-12-03	POTASSIUM	7440-09-7	440		180	mg/kg	
SB-7 0-2'	VANADIUM	7440-62-2	12		0.87	mg/kg	7.14
RSS-3 2-12-03	VANADIUM	7440-62-2	16		0.9	mg/kg	
SB-7 0-2'	ZINC	7440-66-6	34		3.5	mg/kg	6.41
RSS-3 2-12-03	ZINC	7440-66-6	44		3.6	mg/kg	
RSS-4 2-13-03	2-METHYLNAPHTHALENE	91-57-6	0.12	J	0.4	mg/kg	NA
RSS-4 2-13-03	NAPHTHALENE	91-20-3	0.11	J	0.4	mg/kg	NA
SB-21-0-4'	ACETONE	67-64-1	0.0072	J	0.012	mg/kg	NA
SB-21-0-4'	AROCLOR-1254	11097-69-1	0.053		0.042	mg/kg	NA
SB-21-0-4'	ALUMINUM	7429-90-5	8300		19	mg/kg	2.20
RSS-4 2-13-03	ALUMINUM	7429-90-5	7600		18	mg/kg	
SB-21-0-4'	ARSENIC	7440-38-2	17		0.94	mg/kg	9.52
RSS-4 2-13-03	ARSENIC	7440-38-2	25		0.91	mg/kg	
SB-21-0-4'	BARIUM	7440-39-3	140		0.19	mg/kg	3.33
RSS-4 2-13-03	BARIUM	7440-39-3	160		0.18	mg/kg	
SB-21-0-4'	BERYLLIUM	7440-41-7	0.62		0.19	mg/kg	1.56
RSS-4 2-13-03	BERYLLIUM	7440-41-7	0.66		0.18	mg/kg	
SB-21-0-4'	CADMIUM	7440-43-9	0.62		0.19	mg/kg	1.67
RSS-4 2-13-03	CADMIUM	7440-43-9	0.58		0.18	mg/kg	
SB-21-0-4'	CALCIUM	7440-70-2	1200		9.4	mg/kg	10.00
RSS-4 2-13-03	CALCIUM	7440-70-2	1800		9.1	mg/kg	
SB-21-0-4'	CHROMIUM	7440-47-3	12		0.94	mg/kg	5.05
RSS-4 2-13-03	CHROMIUM	7440-47-3	9.8		0.91	mg/kg	
SB-21-0-4'	COBALT	7440-48-4	7.5		0.94	mg/kg	0.00
RSS-4 2-13-03	COBALT	7440-48-4	7.5		0.91	mg/kg	
SB-21-0-4'	COPPER	7440-50-8	13		0.94	mg/kg	1.85
RSS-4 2-13-03	COPPER	7440-50-8	14		0.91	mg/kg	
SB-21-0-4'	IRON	7439-89-6	17000		9.4	mg/kg	1.52
RSS-4 2-13-03	IRON	7439-89-6	16000		9.1	mg/kg	
SB-21-0-4'	LEAD	7439-92-1	16		0.94	mg/kg	1.52
RSS-4 2-13-03	LEAD	7439-92-1	17		0.91	mg/kg	
SB-21-0-4'	MAGNESIUM	7439-95-4	1500		9.4	mg/kg	1.72
RSS-4 2-13-03	MAGNESIUM	7439-95-4	1400		9.1	mg/kg	
SB-21-0-4'	MANGANESE	7439-96-5	590		1.9	mg/kg	0.42
RSS-4 2-13-03	MANGANESE	7439-96-5	600		1.8	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
SB-21-0-4'	NICKEL	7440-02-0	13		0.94	mg/kg	0.00
RSS-4 2-13-03	NICKEL	7440-02-0	13		0.91	mg/kg	
SB-21-0-4'	POTASSIUM	7440-09-7	650		190	mg/kg	2.00
RSS-4 2-13-03	POTASSIUM	7440-09-7	600		180	mg/kg	
SB-21-0-4'	VANADIUM	7440-62-2	14		0.94	mg/kg	1.85
RSS-4 2-13-03	VANADIUM	7440-62-2	13		0.91	mg/kg	
SB-21-0-4'	ZINC	7440-66-6	50		3.7	mg/kg	1.02
RSS-4 2-13-03	ZINC	7440-66-6	48		3.6	mg/kg	
RSS-5 2-14-03	ACETONE	67-64-1	0.062		0.012	mg/kg	NA
RSS-5 2-14-03	2-METHYLNAPHTHALENE	91-57-6	0.095	J	0.41	mg/kg	NA
RSS-5 2-14-03	PHENANTHRENE	85-01-8	0.61		0.41	mg/kg	NA
RSS-5 2-14-03	BENZO(A)PYRENE	50-32-8	0.095	J	0.41	mg/kg	NA
RSS-5 2-14-03	BENZO(B)FLUORANTHENE	205-99-2	0.087	J	0.41	mg/kg	NA
RSS-5 2-14-03	BENZO(K)FLUORANTHENE	207-08-9	0.13	J	0.41	mg/kg	NA
RSS-5 2-14-03	CHRYSENE	218-01-9	0.18	J	0.41	mg/kg	NA
RSS-5 2-14-03	FLUORANTHENE	206-44-0	0.46		0.41	mg/kg	NA
RSS-5 2-14-03	NAPHTHALENE	91-20-3	0.083	J	0.41	mg/kg	NA
RSS-5 2-14-03	PYRENE	129-00-0	0.33	J	0.41	mg/kg	NA
SB-12-0-4'	ALUMINUM	7429-90-5	7600		18	mg/kg	6.57
RSS-5 2-14-03	ALUMINUM	7429-90-5	9900		18	mg/kg	
SB-12-0-4'	ARSENIC	7440-38-2	6.3		0.9	mg/kg	10.87
RSS-5 2-14-03	ARSENIC	7440-38-2	9.8		0.92	mg/kg	
SB-12-0-4'	BARIUM	7440-39-3	120		0.18	mg/kg	7.14
RSS-5 2-14-03	BARIUM	7440-39-3	160		0.18	mg/kg	
SB-12-0-4'	BERYLLIUM	7440-41-7	0.57		0.18	mg/kg	2.29
RSS-5 2-14-03	BERYLLIUM	7440-41-7	0.52		0.18	mg/kg	
SB-12-0-4'	CADMIUM	7440-43-9	0.5		0.18	mg/kg	5.36
RSS-5 2-14-03	CADMIUM	7440-43-9	0.62		0.18	mg/kg	
SB-12-0-4'	CALCIUM	7440-70-2	600		9	mg/kg	0.85
RSS-5 2-14-03	CALCIUM	7440-70-2	580		9.2	mg/kg	
SB-12-0-4'	CHROMIUM	7440-47-3	8.5		0.9	mg/kg	6.41
RSS-5 2-14-03	CHROMIUM	7440-47-3	11		0.92	mg/kg	
SB-12-0-4'	COBALT	7440-48-4	6.8		0.9	mg/kg	4.67
RSS-5 2-14-03	COBALT	7440-48-4	8.2		0.92	mg/kg	
SB-12-0-4'	COPPER	7440-50-8	47		0.9	mg/kg	23.44
RSS-5 2-14-03	COPPER	7440-50-8	17		0.92	mg/kg	
SB-12-0-4'	CYANIDE	NL	0.13		0.12	mg/kg	NA
SB-12-0-4'	IRON	7439-89-6	14000		9	mg/kg	8.82
RSS-5 2-14-03	IRON	7439-89-6	20000		9.2	mg/kg	
SB-12-0-4'	LEAD	7439-92-1	17		0.9	mg/kg	4.05
RSS-5 2-14-03	LEAD	7439-92-1	20		0.92	mg/kg	
SB-12-0-4'	MAGNESIUM	7439-95-4	1200		9	mg/kg	7.14
RSS-5 2-14-03	MAGNESIUM	7439-95-4	1600		9.2	mg/kg	
SB-12-0-4'	MANGANESE	7439-96-5	610		1.8	mg/kg	5.96
RSS-5 2-14-03	MANGANESE	7439-96-5	480		1.8	mg/kg	
SB-12-0-4'	NICKEL	7440-02-0	10		0.9	mg/kg	4.55
RSS-5 2-14-03	NICKEL	7440-02-0	12		0.92	mg/kg	
SB-12-0-4'	POTASSIUM	7440-09-7	520		180	mg/kg	10.00
RSS-5 2-14-03	POTASSIUM	7440-09-7	780		180	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
SB-12-0-4'	VANADIUM	7440-62-2	12		0.9	mg/kg	8.62
RSS-5 2-14-03	VANADIUM	7440-62-2	17		0.92	mg/kg	
SB-12-0-4'	ZINC	7440-66-6	56		3.6	mg/kg	0.91
RSS-5 2-14-03	ZINC	7440-66-6	54		3.7	mg/kg	
SB-20 0-4'	1,2,4-TRICHLOROBENZENE	120-82-1	0.091	J	180	mg/kg	NA
RSS-1 2-24-03	1,4-DICHLOROBENZENE	106-46-7	0.025	J	120	mg/kg	NA
SB-20 0-4'	2-BUTANONE	78-93-3	0.45		180	mg/kg	33.80
RSS-1 2-24-03	2-BUTANONE	78-93-3	0.087	J	120	mg/kg	
SB-20 0-4'	CARBON DISULFIDE	75-15-0	0.061	J	180	mg/kg	NA
SB-20 0-4'	CIS-1,2-DICHLOROETHENE	156-59-2	0.072	J	180	mg/kg	NA
RSS-1 2-24-03	CHLOROBENZENE	108-90-7	0.037	J	120	mg/kg	NA
SB-20 0-4'	ISOPROPYLBENZENE	98-82-8	0.085	J	180	mg/kg	12.96
RSS-1 2-24-03	ISOPROPYLBENZENE	98-82-8	0.05	J	120	mg/kg	
RSS-1 2-24-03	METHYL T-BUTYL ETHER	1634-04-4	0.048	J	120	mg/kg	NA
SB-20 0-4'	TETRACHLOROETHENE	127-18-4	0.77		180	mg/kg	40.59
RSS-1 2-24-03	TETRACHLOROETHENE	127-18-4	0.08	J	120	mg/kg	
SB-20 0-4'	TOLUENE	108-88-3	0.13	J	180	mg/kg	2.00
RSS-1 2-24-03	TOLUENE	108-88-3	0.12		120	mg/kg	
SB-20 0-4'	TRANS-1,2-DICHLOROETHENE	156-60-5	0.066	J	180	mg/kg	NA
SB-20 0-4'	TRICHLOROETHENE	79-01-6	1.2		180	mg/kg	44.41
RSS-1 2-24-03	TRICHLOROETHENE	79-01-6	0.071	J	120	mg/kg	
SB-20 0-4'	XYLENES (TOTAL)	1330-20-7	0.27		180	mg/kg	15.85
RSS-1 2-24-03	XYLENES (TOTAL)	1330-20-7	0.14		120	mg/kg	
SB-20 0-4'	FLUORANTHENE	206-44-0	0.14	J	410	mg/kg	NA
SB-20 0-4'	PHENANTHRENE	85-01-8	0.1	J	410	mg/kg	NA
SB-20 0-4'	PYRENE	129-00-0	0.11	J	410	mg/kg	NA
RSS-1 2-24-03	AROCLOR-1254	11097-69-1	0.057		0.038	mg/kg	NA
SB-20 0-4'	ALUMINUM	7429-90-5	8000		18	mg/kg	6.74
RSS-1 2-24-03	ALUMINUM	7429-90-5	6100		17	mg/kg	
SB-20 0-4'	ARSENIC	7440-38-2	6.7		0.91	mg/kg	0.76
RSS-1 2-24-03	ARSENIC	7440-38-2	6.5		0.86	mg/kg	
SB-20 0-4'	BARIUM	7440-39-3	150		0.18	mg/kg	0.00
RSS-1 2-24-03	BARIUM	7440-39-3	150		0.17	mg/kg	
SB-20 0-4'	BERYLLIUM	7440-41-7	0.81		0.18	mg/kg	5.86
RSS-1 2-24-03	BERYLLIUM	7440-41-7	0.64		0.17	mg/kg	
SB-20 0-4'	CADMIUM	7440-43-9	0.89		0.18	mg/kg	0.57
RSS-1 2-24-03	CADMIUM	7440-43-9	0.87		0.17	mg/kg	
SB-20 0-4'	CALCIUM	7440-70-2	1000		9.1	mg/kg	34.13
RSS-1 2-24-03	CALCIUM	7440-70-2	5300		8.6	mg/kg	
SB-20 0-4'	CHROMIUM	7440-47-3	9.0		0.91	mg/kg	0.28
RSS-1 2-24-03	CHROMIUM	7440-47-3	8.9		0.86	mg/kg	
SB-20 0-4'	COBALT	7440-48-4	7.6		0.91	mg/kg	3.90
RSS-1 2-24-03	COBALT	7440-48-4	6.5		0.86	mg/kg	
SB-20 0-4'	COPPER	7440-50-8	17		0.91	mg/kg	1.52
RSS-1 2-24-03	COPPER	7440-50-8	16		0.86	mg/kg	
SB-20 0-4'	CYANIDE	NL	0.13		0.12	mg/kg	25.47
RSS-1 2-24-03	CYANIDE	NL	0.40		0.12	mg/kg	
SB-20 0-4'	IRON	7439-89-6	13000		9.1	mg/kg	3.57
RSS-1 2-24-03	IRON	7439-89-6	15000		8.6	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
SB-20 0-4'	LEAD	7439-92-1	14		0.91	mg/kg	3.33
RSS-1 2-24-03	LEAD	7439-92-1	16		0.86	mg/kg	
SB-20 0-4'	MAGNESIUM	7439-95-4	1100		9.1	mg/kg	12.07
RSS-1 2-24-03	MAGNESIUM	7439-95-4	1800		8.6	mg/kg	
SB-20 0-4'	MANGANESE	7439-96-5	620		1.8	mg/kg	4.87
RSS-1 2-24-03	MANGANESE	7439-96-5	510		1.7	mg/kg	
RSS-1 2-24-03	MERCURY, TOTAL	7439-97-6	0.57		0.12	mg/kg	NA
SB-20 0-4'	NICKEL	7440-02-0	12		0.91	mg/kg	2.00
RSS-1 2-24-03	NICKEL	7440-02-0	13		0.86	mg/kg	
SB-20 0-4'	POTASSIUM	7440-09-7	540		180	mg/kg	1.43
RSS-1 2-24-03	POTASSIUM	7440-09-7	510		170	mg/kg	
SB-20 0-4'	SODIUM	7440-23-5	260		180	mg/kg	0.00
RSS-1 2-24-03	SODIUM	7440-23-5	260		170	mg/kg	
SB-20 0-4'	VANADIUM	7440-62-2	12		0.91	mg/kg	4.55
RSS-1 2-24-03	VANADIUM	7440-62-2	10		0.86	mg/kg	
SB-20 0-4'	ZINC	7440-66-6	46		3.6	mg/kg	7.80
RSS-1 2-24-03	ZINC	7440-66-6	63		3.4	mg/kg	
SB-34 0-2'	1,1,1-TRICHLOROETHANE	71-55-6	0.12	J	190	mg/kg	2.17
RSS-1 2-25-03	1,1,1-TRICHLOROETHANE	71-55-6	0.11	J	150	mg/kg	
SB-34 0-2'	1,2,4-TRICHLOROBENZENE	120-82-1	0.14	J	190	mg/kg	6.00
RSS-1 2-25-03	1,2,4-TRICHLOROBENZENE	120-82-1	0.11	J	150	mg/kg	
SB-34 0-2'	BENZENE	71-43-2	0.28		190	mg/kg	0.00
RSS-1 2-25-03	BENZENE	71-43-2	0.28		150	mg/kg	
SB-34 0-2'	ETHYLBENZENE	100-41-4	0.45		190	mg/kg	6.25
RSS-1 2-25-03	ETHYLBENZENE	100-41-4	0.35		150	mg/kg	
SB-34 0-2'	ISOPROPYLBENZENE	98-82-8	0.31		190	mg/kg	6.36
RSS-1 2-25-03	ISOPROPYLBENZENE	98-82-8	0.24		150	mg/kg	
SB-34 0-2'	TETRACHLOROETHENE	127-18-4	0.069	J	190	mg/kg	6.10
RSS-1 2-25-03	TETRACHLOROETHENE	127-18-4	0.054	J	150	mg/kg	
SB-34 0-2'	TOLUENE	108-88-3	1.3		190	mg/kg	6.52
RSS-1 2-25-03	TOLUENE	108-88-3	1		150	mg/kg	
SB-34 0-2'	XYLENES (TOTAL)	1330-20-7	2		190	mg/kg	7.14
RSS-1 2-25-03	XYLENES (TOTAL)	1330-20-7	1.5		150	mg/kg	
SB-34 0-2'	2-METHYLNAPHTHALENE	91-57-6	1.7		430	mg/kg	16.93
RSS-1 2-25-03	2-METHYLNAPHTHALENE	91-57-6	0.84		430	mg/kg	
SB-34 0-2'	DIBENZOFURAN	132-64-9	0.33	J	430	mg/kg	14.71
RSS-1 2-25-03	DIBENZOFURAN	132-64-9	0.18	J	430	mg/kg	
SB-34 0-2'	HEXACHLOROBUTADIENE	87-68-3	0.14	J	870	mg/kg	NA
RSS-1 2-25-03	PHENANTHRENE	85-01-8	0.55		430	mg/kg	NA
SB-34 0-2'	BENZO(A)ANTHRACENE	56-55-3	0.12	J	430	mg/kg	10.00
RSS-1 2-25-03	BENZO(A)ANTHRACENE	56-55-3	0.18	J	430	mg/kg	
SB-34 0-2'	BENZO(A)PYRENE	50-32-8	0.089	J	430	mg/kg	5.28
RSS-1 2-25-03	BENZO(A)PYRENE	50-32-8	0.11	J	430	mg/kg	
RSS-1 2-25-03	BENZO(B)FLUORANTHENE	205-99-2	0.096	J	430	mg/kg	NA
RSS-1 2-25-03	BENZO(K)FLUORANTHENE	207-08-9	0.088	J	430	mg/kg	NA
SB-34 0-2'	CHRYSENE	218-01-9	0.14	J	430	mg/kg	6.25
RSS-1 2-25-03	CHRYSENE	218-01-9	0.18	J	430	mg/kg	
SB-34 0-2'	FLUORANTHENE	206-44-0	0.14	J	430	mg/kg	23.08
RSS-1 2-25-03	FLUORANTHENE	206-44-0	0.38	J	430	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
SB-34 0-2'	NAPHTHALENE	91-20-3	1.3		430	mg/kg	15.99
RSS-1 2-25-03	NAPHTHALENE	91-20-3	0.67		430	mg/kg	
SB-34 0-2'	PHENANTHRENE	85-01-8	0.65		430	mg/kg	NA
SB-34 0-2'	PYRENE	129-00-0	0.16	J	430	mg/kg	15.96
RSS-1 2-25-03	PYRENE	129-00-0	0.31	J	430	mg/kg	
SB-34 0-2'	ALPHA-BHC	319-84-6	0.28		65	mg/kg	16.67
RSS-1 2-25-03	ALPHA-BHC	319-84-6	0.14		65	mg/kg	
SB-34 0-2'	BETA-BHC	319-85-7	0.28		65	mg/kg	NA
SB-34 0-2'	ALUMINUM	7429-90-5	5900		19	mg/kg	0.42
RSS-1 2-25-03	ALUMINUM	7429-90-5	6000		20	mg/kg	
SB-34 0-2'	ARSENIC	7440-38-2	19		0.97	mg/kg	2.78
RSS-1 2-25-03	ARSENIC	7440-38-2	17		0.98	mg/kg	
SB-34 0-2'	BARIUM	7440-39-3	9400		1.9	mg/kg	41.71
RSS-1 2-25-03	BARIUM	7440-39-3	850		0.20	mg/kg	
SB-34 0-2'	BERYLLIUM	7440-41-7	0.91		0.19	mg/kg	6.52
RSS-1 2-25-03	BERYLLIUM	7440-41-7	0.70		0.20	mg/kg	
SB-34 0-2'	CADMIUM	7440-43-9	1.3		0.19	mg/kg	0.00
RSS-1 2-25-03	CADMIUM	7440-43-9	1.3		0.20	mg/kg	
SB-34 0-2'	CALCIUM	7440-70-2	23000		9.7	mg/kg	39.84
RSS-1 2-25-03	CALCIUM	7440-70-2	2600		9.8	mg/kg	
SB-34 0-2'	CHROMIUM	7440-47-3	15		0.97	mg/kg	1.72
RSS-1 2-25-03	CHROMIUM	7440-47-3	14		0.98	mg/kg	
SB-34 0-2'	COBALT	7440-48-4	8.9		0.97	mg/kg	4.94
RSS-1 2-25-03	COBALT	7440-48-4	7.3		0.98	mg/kg	
SB-34 0-2'	COPPER	7440-50-8	16		0.97	mg/kg	1.61
RSS-1 2-25-03	COPPER	7440-50-8	15		0.98	mg/kg	
SB-34 0-2'	CYANIDE	NL	0.30		0.13	mg/kg	18.18
RSS-1 2-25-03	CYANIDE	NL	0.14		0.13	mg/kg	
SB-34 0-2'	IRON	7439-89-6	20000		9.7	mg/kg	4.55
RSS-1 2-25-03	IRON	7439-89-6	24000		9.8	mg/kg	
SB-34 0-2'	LEAD	7439-92-1	25		0.97	mg/kg	8.14
RSS-1 2-25-03	LEAD	7439-92-1	18		0.98	mg/kg	
SB-34 0-2'	MAGNESIUM	7439-95-4	690		9.7	mg/kg	8.93
RSS-1 2-25-03	MAGNESIUM	7439-95-4	990		9.8	mg/kg	
SB-34 0-2'	MANGANESE	7439-96-5	310		1.9	mg/kg	9.74
RSS-1 2-25-03	MANGANESE	7439-96-5	460		2.0	mg/kg	
SB-34 0-2'	MERCURY, TOTAL	7439-97-6	0.24		0.13	mg/kg	2.17
RSS-1 2-25-03	MERCURY, TOTAL	7439-97-6	0.22		0.13	mg/kg	
SB-34 0-2'	NICKEL	7440-02-0	28		0.97	mg/kg	16.67
RSS-1 2-25-03	NICKEL	7440-02-0	14		0.98	mg/kg	
SB-34 0-2'	POTASSIUM	7440-09-7	600		190	mg/kg	2.17
RSS-1 2-25-03	POTASSIUM	7440-09-7	550		200	mg/kg	
SB-34 0-2'	SELENIUM	7782-49-2	1.6		0.97	mg/kg	1.61
RSS-1 2-25-03	SELENIUM	7782-49-2	1.5		0.98	mg/kg	
SB-34 0-2'	SODIUM	7440-23-5	340		190	mg/kg	5.74
RSS-1 2-25-03	SODIUM	7440-23-5	270		200	mg/kg	
SB-34 0-2'	VANADIUM	7440-62-2	25		0.97	mg/kg	10.98
RSS-1 2-25-03	VANADIUM	7440-62-2	16		0.98	mg/kg	
SB-34 0-2'	ZINC	7440-66-6	40		3.9	mg/kg	0.00
RSS-1 2-25-03	ZINC	7440-66-6	40		3.9	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
SB-28 0-4'	1,1,1-TRICHLOROETHANE	71-55-6	0.015		5.8	mg/kg	NA
RSS-1 2-26-03	1,1-DICHLOROETHANE	75-34-3	0.0028	J	5.8	mg/kg	NA
SB-28 0-4'	ACETONE	67-64-1	0.021		12	mg/kg	18.63
RSS-1 2-26-03	ACETONE	67-64-1	0.0096	J	12	mg/kg	
RSS-1 2-26-03	2-METHYLNAPHTHALENE	91-57-6	0.1	J	380	mg/kg	NA
RSS-1 2-26-03	HEXACHLOROBENZENE	118-74-1	0.82		380	mg/kg	NA
SB-28 0-4'	CHRYSENE	218-01-9	0.082	J	380	mg/kg	NA
SB-28 0-4'	FLUORANTHENE	206-44-0	0.2	J	380	mg/kg	NA
RSS-1 2-26-03	NAPHTHALENE	91-20-3	0.085	J	380	mg/kg	NA
SB-28 0-4'	PHENANTHRENE	85-01-8	0.16	J	380	mg/kg	NA
SB-28 0-4'	PYRENE	129-00-0	0.15	J	380	mg/kg	NA
SB-28 0-4'	ALUMINUM	7429-90-5	14000		170	mg/kg	9.57
RSS-1 2-26-03	ALUMINUM	7429-90-5	9500		17	mg/kg	
SB-28 0-4'	ARSENIC	7440-38-2	13		0.86	mg/kg	6.52
RSS-1 2-26-03	ARSENIC	7440-38-2	10		0.86	mg/kg	
SB-28 0-4'	BARIUM	7440-39-3	96		0.17	mg/kg	13.91
RSS-1 2-26-03	BARIUM	7440-39-3	170		0.17	mg/kg	
SB-28 0-4'	BERYLLIUM	7440-41-7	0.65		0.17	mg/kg	2.42
RSS-1 2-26-03	BERYLLIUM	7440-41-7	0.59		0.17	mg/kg	
SB-28 0-4'	CADMIUM	7440-43-9	1.1		0.17	mg/kg	4.46
RSS-1 2-26-03	CADMIUM	7440-43-9	0.92		0.17	mg/kg	
SB-28 0-4'	CALCIUM	7440-70-2	1100		8.6	mg/kg	2.17
RSS-1 2-26-03	CALCIUM	7440-70-2	1200		8.6	mg/kg	
SB-28 0-4'	CHROMIUM	7440-47-3	16		0.86	mg/kg	7.14
RSS-1 2-26-03	CHROMIUM	7440-47-3	12		0.86	mg/kg	
SB-28 0-4'	COBALT	7440-48-4	8.8		0.86	mg/kg	3.01
RSS-1 2-26-03	COBALT	7440-48-4	7.8		0.86	mg/kg	
SB-28 0-4'	COPPER	7440-50-8	17		0.86	mg/kg	4.84
RSS-1 2-26-03	COPPER	7440-50-8	14		0.86	mg/kg	
SB-28 0-4'	IRON	7439-89-6	26000		8.6	mg/kg	5.32
RSS-1 2-26-03	IRON	7439-89-6	21000		8.6	mg/kg	
SB-28 0-4'	LEAD	7439-92-1	19		0.86	mg/kg	35.27
RSS-1 2-26-03	LEAD	7439-92-1	110		0.86	mg/kg	
SB-28 0-4'	MAGNESIUM	7439-95-4	2200		8.6	mg/kg	7.89
RSS-1 2-26-03	MAGNESIUM	7439-95-4	1600		8.6	mg/kg	
SB-28 0-4'	MANGANESE	7439-96-5	440		1.7	mg/kg	1.76
RSS-1 2-26-03	MANGANESE	7439-96-5	410		1.7	mg/kg	
SB-28 0-4'	NICKEL	7440-02-0	17		0.86	mg/kg	3.13
RSS-1 2-26-03	NICKEL	7440-02-0	15		0.86	mg/kg	
SB-28 0-4'	POTASSIUM	7440-09-7	1800		170	mg/kg	14.29
RSS-1 2-26-03	POTASSIUM	7440-09-7	1000		170	mg/kg	
RSS-1 2-26-03	SODIUM	7440-23-5	180		170	mg/kg	NA
SB-28 0-4'	VANADIUM	7440-62-2	26		0.86	mg/kg	9.09
RSS-1 2-26-03	VANADIUM	7440-62-2	18		0.86	mg/kg	
SB-28 0-4'	ZINC	7440-66-6	55		3.4	mg/kg	0.46
RSS-1 2-26-03	ZINC	7440-66-6	54		3.4	mg/kg	
SB-10 0-4'	1,1,2,2-TETRACHLOROETHANE	79-34-5	0.38		110	mg/kg	28.65
RSS-1 2-27-03	1,1,2,2-TETRACHLOROETHANE	79-34-5	1.4		210	mg/kg	
RSS-1 2-27-03	TETRACHLOROETHENE	127-18-4	0.48		210	mg/kg	NA

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
SB-10 0-4'	TRICHLOROETHENE	79-01-6	0.17		110	mg/kg	33.96
RSS-1 2-27-03	TRICHLOROETHENE	79-01-6	0.89		210	mg/kg	
SB-10 0-4'	BENZO(A)PYRENE	50-32-8	0.082	J	400	mg/kg	NA
SB-10 0-4'	BENZO(K)FLUORANTHENE	207-08-9	0.094	J	400	mg/kg	NA
SB-10 0-4'	CHRYSENE	218-01-9	0.093	J	400	mg/kg	NA
SB-10 0-4'	FLUORANTHENE	206-44-0	0.18	J	400	mg/kg	NA
SB-10 0-4'	PHENANTHRENE	85-01-8	0.11	J	400	mg/kg	NA
SB-10 0-4'	PYRENE	129-00-0	0.14	J	400	mg/kg	NA
SB-10 0-4'	ALUMINUM	7429-90-5	8200		18	mg/kg	0.00
RSS-1 2-27-03	ALUMINUM	7429-90-5	8200		17	mg/kg	
SB-10 0-4'	ARSENIC	7440-38-2	8.5		0.91	mg/kg	1.83
RSS-1 2-27-03	ARSENIC	7440-38-2	7.9		0.87	mg/kg	
SB-10 0-4'	BARIUM	7440-39-3	110		0.18	mg/kg	0.00
RSS-1 2-27-03	BARIUM	7440-39-3	110		0.17	mg/kg	
SB-10 0-4'	BERYLLIUM	7440-41-7	0.63		0.18	mg/kg	1.16
RSS-1 2-27-03	BERYLLIUM	7440-41-7	0.66		0.17	mg/kg	
SB-10 0-4'	CADMIUM	7440-43-9	0.92		0.18	mg/kg	3.49
RSS-1 2-27-03	CADMIUM	7440-43-9	0.80		0.17	mg/kg	
SB-10 0-4'	CALCIUM	7440-70-2	1800		9.1	mg/kg	8.06
RSS-1 2-27-03	CALCIUM	7440-70-2	1300		8.7	mg/kg	
SB-10 0-4'	CHROMIUM	7440-47-3	11		0.91	mg/kg	3.40
RSS-1 2-27-03	CHROMIUM	7440-47-3	9.6		0.87	mg/kg	
SB-10 0-4'	COBALT	7440-48-4	10		0.91	mg/kg	5.56
RSS-1 2-27-03	COBALT	7440-48-4	8.0		0.87	mg/kg	
SB-10 0-4'	COPPER	7440-50-8	11		0.91	mg/kg	0.00
RSS-1 2-27-03	COPPER	7440-50-8	11		0.87	mg/kg	
SB-10 0-4'	CYANIDE	NL	0.20		0.12	mg/kg	NA
SB-10 0-4'	IRON	7439-89-6	18000		9.1	mg/kg	1.43
RSS-1 2-27-03	IRON	7439-89-6	17000		8.7	mg/kg	
SB-10 0-4'	LEAD	7439-92-1	14		0.91	mg/kg	6.00
RSS-1 2-27-03	LEAD	7439-92-1	11		0.87	mg/kg	
SB-10 0-4'	MAGNESIUM	7439-95-4	1700		9.1	mg/kg	4.84
RSS-1 2-27-03	MAGNESIUM	7439-95-4	1400		8.7	mg/kg	
SB-10 0-4'	MANGANESE	7439-96-5	830		1.8	mg/kg	0.60
RSS-1 2-27-03	MANGANESE	7439-96-5	850		1.7	mg/kg	
SB-10 0-4'	NICKEL	7440-02-0	13		0.91	mg/kg	2.00
RSS-1 2-27-03	NICKEL	7440-02-0	12		0.87	mg/kg	
SB-10 0-4'	POTASSIUM	7440-09-7	610		180	mg/kg	1.69
RSS-1 2-27-03	POTASSIUM	7440-09-7	570		170	mg/kg	
SB-10 0-4'	VANADIUM	7440-62-2	16		0.91	mg/kg	3.33
RSS-1 2-27-03	VANADIUM	7440-62-2	14		0.87	mg/kg	
SB-10 0-4'	ZINC	7440-66-6	42		3.6	mg/kg	1.22
RSS-1 2-27-03	ZINC	7440-66-6	40		3.5	mg/kg	
SB-9 0-4'	ALPHA-BHC	319-84-6	0.0072		6.2	mg/kg	7.60
RSS-1 2-28-03	ALPHA-BHC	319-84-6	0.0053		5.0	mg/kg	
SB-9 0-4'	BETA-BHC	319-85-7	0.011		6.2	mg/kg	11.45
RSS-1 2-28-03	BETA-BHC	319-85-7	0.0069		5.0	mg/kg	
SB-9 0-4'	DELTA-BHC	319-86-8	0.0006	J	6.2	mg/kg	NA
SB-9 0-4'	GAMMA-BHC (LINDANE)	58-89-9	0.0024	J	6.2	mg/kg	4.55
RSS-1 2-28-03	GAMMA-BHC (LINDANE)	58-89-9	0.002	J	5.0	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
SB-9 0-4'	ALUMINUM	7429-90-5	9100		19	mg/kg	3.53
RSS-1 2-28-03	ALUMINUM	7429-90-5	7900		15	mg/kg	
SB-9 0-4'	ARSENIC	7440-38-2	13		0.94	mg/kg	10.19
RSS-1 2-28-03	ARSENIC	7440-38-2	8.6		0.75	mg/kg	
SB-9 0-4'	BARIUM	7440-39-3	680		0.19	mg/kg	6.96
RSS-1 2-28-03	BARIUM	7440-39-3	900		0.15	mg/kg	
SB-9 0-4'	BERYLLIUM	7440-41-7	0.60		0.19	mg/kg	1.22
RSS-1 2-28-03	BERYLLIUM	7440-41-7	0.63		0.15	mg/kg	
SB-9 0-4'	CADMIUM	7440-43-9	1.0		0.19	mg/kg	4.64
RSS-1 2-28-03	CADMIUM	7440-43-9	0.83		0.15	mg/kg	
SB-9 0-4'	CALCIUM	7440-70-2	1300		9.4	mg/kg	0.00
RSS-1 2-28-03	CALCIUM	7440-70-2	1300		7.5	mg/kg	
SB-9 0-4'	CHROMIUM	7440-47-3	12		0.94	mg/kg	2.17
RSS-1 2-28-03	CHROMIUM	7440-47-3	11		0.75	mg/kg	
SB-9 0-4'	COBALT	7440-48-4	7.7		0.94	mg/kg	4.23
RSS-1 2-28-03	COBALT	7440-48-4	6.5		0.75	mg/kg	
SB-9 0-4'	COPPER	7440-50-8	18		0.94	mg/kg	6.25
RSS-1 2-28-03	COPPER	7440-50-8	14		0.75	mg/kg	
SB-9 0-4'	IRON	7439-89-6	22000		9.4	mg/kg	7.89
RSS-1 2-28-03	IRON	7439-89-6	16000		7.5	mg/kg	
SB-9 0-4'	LEAD	7439-92-1	48		0.94	mg/kg	2.48
RSS-1 2-28-03	LEAD	7439-92-1	53		0.75	mg/kg	
SB-9 0-4'	MAGNESIUM	7439-95-4	1600		9.4	mg/kg	5.17
RSS-1 2-28-03	MAGNESIUM	7439-95-4	1300		7.5	mg/kg	
SB-9 0-4'	MANGANESE	7439-96-5	510		1.9	mg/kg	4.05
RSS-1 2-28-03	MANGANESE	7439-96-5	600		1.5	mg/kg	
SB-9 0-4'	NICKEL	7440-02-0	14		0.94	mg/kg	0.00
RSS-1 2-28-03	NICKEL	7440-02-0	14		0.75	mg/kg	
SB-9 0-4'	POTASSIUM	7440-09-7	590		190	mg/kg	3.15
RSS-1 2-28-03	POTASSIUM	7440-09-7	520		150	mg/kg	
SB-9 0-4'	SODIUM	7440-23-5	190		190	mg/kg	NA
SB-9 0-4'	VANADIUM	7440-62-2	17		0.94	mg/kg	4.84
RSS-1 2-28-03	VANADIUM	7440-62-2	14		0.75	mg/kg	
SB-9 0-4'	ZINC	7440-66-6	90		3.8	mg/kg	2.13
RSS-1 2-28-03	ZINC	7440-66-6	98		3.0	mg/kg	
SB-3 0-4'	1,4-DICHLOROBENZENE	106-46-7	0.003	J	5.6	mg/kg	NA
SB-3 0-4'	2-BUTANONE	78-93-3	0.014		11	mg/kg	13.06
RSS 3-3-03	2-BUTANONE	78-93-3	0.0082	J	11	mg/kg	
SB-3 0-4'	ACETONE	67-64-1	0.08		11	mg/kg	24.77
RSS 3-3-03	ACETONE	67-64-1	0.027		11	mg/kg	
RSS 3-3-03	TETRACHLOROETHENE	127-18-4	0.046		6.5	mg/kg	NA
SB-3 0-4'	TOLUENE	108-88-3	0.0027	J	5.6	mg/kg	NA
RSS 3-3-03	2-METHYLNAPHTHALENE	91-57-6	0.4		370	mg/kg	NA
RSS 3-3-03	DIBENZOFURAN	132-64-9	0.089	J	370	mg/kg	NA
RSS 3-3-03	PHENANTHRENE	85-01-8	0.14	J	370	mg/kg	NA
RSS 3-3-03	FLUORANTHENE	206-44-0	0.077	J	370	mg/kg	NA
RSS 3-3-03	NAPHTHALENE	91-20-3	0.29	J	370	mg/kg	NA
SB-3 0-4'	ALPHA-BHC	319-84-6	0.0023	J	5.6	mg/kg	2.08
RSS 3-3-03	ALPHA-BHC	319-84-6	0.0025	J	5.6	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
SB-3 0-4'	BETA-BHC	319-85-7	0.0087		5.6	mg/kg	0.29
RSS 3-3-03	BETA-BHC	319-85-7	0.0086		5.6	mg/kg	
RSS 3-3-03	DELTA-BHC	319-86-8	0.0056		5.6	mg/kg	NA
RSS 3-3-03	GAMMA-BHC (LINDANE)	58-89-9	0.003	J	5.6	mg/kg	NA
SB-3 0-4'	ALUMINUM	7429-90-5	6600		17	mg/kg	3.19
RSS 3-3-03	ALUMINUM	7429-90-5	7500		17	mg/kg	
SB-3 0-4'	ARSENIC	7440-38-2	6.2		0.84	mg/kg	7.82
RSS 3-3-03	ARSENIC	7440-38-2	8.5		0.84	mg/kg	
SB-3 0-4'	BARIUM	7440-39-3	170		0.17	mg/kg	16.00
RSS 3-3-03	BARIUM	7440-39-3	330		0.17	mg/kg	
SB-3 0-4'	BERYLLIUM	7440-41-7	0.43		0.17	mg/kg	5.21
RSS 3-3-03	BERYLLIUM	7440-41-7	0.53		0.17	mg/kg	
SB-3 0-4'	CADMIUM	7440-43-9	0.43		0.17	mg/kg	7.00
RSS 3-3-03	CADMIUM	7440-43-9	0.57		0.17	mg/kg	
SB-3 0-4'	CALCIUM	7440-70-2	650		8.4	mg/kg	18.29
RSS 3-3-03	CALCIUM	7440-70-2	1400		8.4	mg/kg	
SB-3 0-4'	CHROMIUM	7440-47-3	6.7		0.84	mg/kg	5.92
RSS 3-3-03	CHROMIUM	7440-47-3	8.5		0.84	mg/kg	
SB-3 0-4'	COBALT	7440-48-4	5.4		0.84	mg/kg	2.63
RSS 3-3-03	COBALT	7440-48-4	6.0		0.84	mg/kg	
SB-3 0-4'	COPPER	7440-50-8	8.8		0.84	mg/kg	9.63
RSS 3-3-03	COPPER	7440-50-8	13		0.84	mg/kg	
SB-3 0-4'	IRON	7439-89-6	14000		8.4	mg/kg	6.25
RSS 3-3-03	IRON	7439-89-6	18000		8.4	mg/kg	
SB-3 0-4'	LEAD	7439-92-1	9.4		0.84	mg/kg	9.83
RSS 3-3-03	LEAD	7439-92-1	14		0.84	mg/kg	
SB-3 0-4'	MAGNESIUM	7439-95-4	1100		8.4	mg/kg	9.26
RSS 3-3-03	MAGNESIUM	7439-95-4	1600		8.4	mg/kg	
SB-3 0-4'	MANGANESE	7439-96-5	560		1.7	mg/kg	8.52
RSS 3-3-03	MANGANESE	7439-96-5	790		1.7	mg/kg	
SB-3 0-4'	NICKEL	7440-02-0	8.2		0.84	mg/kg	4.95
RSS 3-3-03	NICKEL	7440-02-0	10		0.84	mg/kg	
SB-3 0-4'	POTASSIUM	7440-09-7	310		170	mg/kg	7.53
RSS 3-3-03	POTASSIUM	7440-09-7	420		170	mg/kg	
SB-3 0-4'	VANADIUM	7440-62-2	12		0.84	mg/kg	3.85
RSS 3-3-03	VANADIUM	7440-62-2	14		0.84	mg/kg	
SB-3 0-4'	ZINC	7440-66-6	31		3.4	mg/kg	5.07
RSS 3-3-03	ZINC	7440-66-6	38		3.4	mg/kg	
SB-2 0-4'	ACETONE	67-64-1	0.021		11	mg/kg	17.74
RSS 3-4-03	ACETONE	67-64-1	0.01	J	11	mg/kg	
RSS 3-4-03	CARBON DISULFIDE	75-15-0	0.0032	J	5.6	mg/kg	NA
SB-2 0-4'	TETRACHLOROETHENE	127-18-4	0.0057		5.6	mg/kg	20.37
RSS 3-4-03	TETRACHLOROETHENE	127-18-4	0.0024	J	5.6	mg/kg	
SB-2 0-4'	PHENANTHRENE	85-01-8	0.2	J	370	mg/kg	4.55
RSS 3-4-03	PHENANTHRENE	85-01-8	0.24	J	380	mg/kg	
SB-2 0-4'	BENZO(A)ANTHRACENE	56-55-3	0.18	J	370	mg/kg	2.63
RSS 3-4-03	BENZO(A)ANTHRACENE	56-55-3	0.2	J	380	mg/kg	
SB-2 0-4'	BENZO(A)PYRENE	50-32-8	0.17	J	370	mg/kg	1.52
RSS 3-4-03	BENZO(A)PYRENE	50-32-8	0.16	J	380	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
SB-2 0-4'	BENZO(B)FLUORANTHENE	205-99-2	0.14	J	370	mg/kg	0.00
RSS 3-4-03	BENZO(B)FLUORANTHENE	205-99-2	0.14	J	380	mg/kg	
SB-2 0-4'	BENZO(K)FLUORANTHENE	207-08-9	0.16	J	370	mg/kg	0.00
RSS 3-4-03	BENZO(K)FLUORANTHENE	207-08-9	0.16	J	380	mg/kg	
RSS 3-4-03	BENZO(G,H,I)PERYLENE	191-24-2	0.11	J	380	mg/kg	NA
SB-2 0-4'	CHRYSENE	218-01-9	0.18	J	370	mg/kg	2.63
RSS 3-4-03	CHRYSENE	218-01-9	0.2	J	380	mg/kg	
SB-2 0-4'	FLUORANTHENE	206-44-0	0.38		370	mg/kg	3.09
RSS 3-4-03	FLUORANTHENE	206-44-0	0.43		380	mg/kg	
SB-2 0-4'	INDENO(1,2,3-CD)PYRENE	193-39-5	0.078	J	750	mg/kg	1.25
RSS 3-4-03	INDENO(1,2,3-CD)PYRENE	193-39-5	0.082	J	760	mg/kg	
SB-2 0-4'	PYRENE	129-00-0	0.29	J	370	mg/kg	2.46
RSS 3-4-03	PYRENE	129-00-0	0.32	J	380	mg/kg	
SB-2 0-4'	ALPHA-BHC	319-84-6	0.003	J	5.6	mg/kg	24.14
RSS 3-4-03	ALPHA-BHC	319-84-6	0.0086		5.6	mg/kg	
SB-2 0-4'	BETA-BHC	319-85-7	0.066		5.6	mg/kg	27.70
RSS 3-4-03	BETA-BHC	319-85-7	0.23		56	mg/kg	
RSS 3-4-03	DELTA-BHC	319-86-8	0.19		56	mg/kg	NA
RSS 3-4-03	GAMMA-BHC (LINDANE)	58-89-9	0.0074		5.6	mg/kg	NA
SB-2 0-4'	ALUMINUM	7429-90-5	4800		17	mg/kg	5.14
RSS 3-4-03	ALUMINUM	7429-90-5	5900		17	mg/kg	
SB-2 0-4'	ARSENIC	7440-38-2	4.6		0.84	mg/kg	9.74
RSS 3-4-03	ARSENIC	7440-38-2	3.1		0.85	mg/kg	
SB-2 0-4'	BARIUM	7440-39-3	69		0.17	mg/kg	18.49
RSS 3-4-03	BARIUM	7440-39-3	150		0.17	mg/kg	
SB-2 0-4'	BERYLLIUM	7440-41-7	0.47		0.17	mg/kg	15.19
RSS 3-4-03	BERYLLIUM	7440-41-7	0.88		0.17	mg/kg	
SB-2 0-4'	CADMIUM	7440-43-9	0.35		0.17	mg/kg	10.34
RSS 3-4-03	CADMIUM	7440-43-9	0.23		0.17	mg/kg	
SB-2 0-4'	CALCIUM	7440-70-2	8900		8.4	mg/kg	24.50
RSS 3-4-03	CALCIUM	7440-70-2	26000		8.5	mg/kg	
SB-2 0-4'	CHROMIUM	7440-47-3	5.6		0.84	mg/kg	8.33
RSS 3-4-03	CHROMIUM	7440-47-3	4.0		0.85	mg/kg	
SB-2 0-4'	COBALT	7440-48-4	4.8		0.84	mg/kg	21.64
RSS 3-4-03	COBALT	7440-48-4	1.9		0.85	mg/kg	
SB-2 0-4'	COPPER	7440-50-8	11		0.84	mg/kg	15.48
RSS 3-4-03	COPPER	7440-50-8	5.8		0.85	mg/kg	
SB-2 0-4'	CYANIDE	NL	0.21		0.11	mg/kg	5.32
RSS 3-4-03	CYANIDE	NL	0.26		0.11	mg/kg	
SB-2 0-4'	IRON	7439-89-6	11000		8.4	mg/kg	16.27
RSS 3-4-03	IRON	7439-89-6	5600		8.5	mg/kg	
SB-2 0-4'	LEAD	7439-92-1	9.6		0.84	mg/kg	1.02
RSS 3-4-03	LEAD	7439-92-1	10		0.85	mg/kg	
SB-2 0-4'	MAGNESIUM	7439-95-4	2500		8.4	mg/kg	21.91
RSS 3-4-03	MAGNESIUM	7439-95-4	6400		8.5	mg/kg	
SB-2 0-4'	MANGANESE	7439-96-5	660		1.7	mg/kg	3.66
RSS 3-4-03	MANGANESE	7439-96-5	570		1.7	mg/kg	
SB-2 0-4'	MERCURY, TOTAL	7439-97-6	0.13		0.11	mg/kg	17.50
RSS 3-4-03	MERCURY, TOTAL	7439-97-6	0.27		0.11	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
SB-2 0-4'	NICKEL	7440-02-0	6.8		0.84	mg/kg	12.96
RSS 3-4-03	NICKEL	7440-02-0	4.0		0.85	mg/kg	
SB-2 0-4'	POTASSIUM	7440-09-7	390		170	mg/kg	0.00
RSS 3-4-03	POTASSIUM	7440-09-7	390		170	mg/kg	
RSS 3-4-03	SELENIUM	7782-49-2	0.90		0.85	mg/kg	NA
SB-2 0-4'	SODIUM	7440-23-5	930		170	mg/kg	6.36
RSS 3-4-03	SODIUM	7440-23-5	720		170	mg/kg	
SB-2 0-4'	VANADIUM	7440-62-2	7.1		0.84	mg/kg	10.68
RSS 3-4-03	VANADIUM	7440-62-2	4.6		0.85	mg/kg	
SB-2 0-4'	ZINC	7440-66-6	33		3.4	mg/kg	10.00
RSS 3-4-03	ZINC	7440-66-6	22		3.4	mg/kg	
RSS 3-5-03	1,2,4-TRICHLOROBENZENE	120-82-1	0.92		470	mg/kg	NA
RSS 3-5-03	1,2-DICHLOROBENZENE	95-50-1	2.8		470	mg/kg	NA
RSS 3-5-03	1,4-DICHLOROBENZENE	106-46-7	13		470	mg/kg	NA
SB-31 0-4'	ACETONE	67-64-1	0.01	J	13	mg/kg	NA
RSS 3-5-03	BENZENE	71-43-2	1.2		470	mg/kg	NA
SB-31 0-4'	CARBON DISULFIDE	75-15-0	0.0038	J	6.5	mg/kg	NA
SB-31 0-4'	CHLOROFORM	67-66-3	0.0044	J	6.5	mg/kg	49.56
RSS 3-5-03	CHLOROFORM	67-66-3	1		470	mg/kg	
RSS 3-5-03	ETHYLBENZENE	100-41-4	1.9		470	mg/kg	NA
RSS 3-5-03	ISOPROPYLBENZENE	98-82-8	1.3		470	mg/kg	NA
SB-31 0-4'	TETRACHLOROETHENE	127-18-4	0.016		6.5	mg/kg	48.87
RSS 3-5-03	TETRACHLOROETHENE	127-18-4	1.4		470	mg/kg	
RSS 3-5-03	TOLUENE	108-88-3	4.9		470	mg/kg	NA
RSS 3-5-03	TRICHLOROETHENE	79-01-6	0.64		470	mg/kg	NA
RSS 3-5-03	XYLENES (TOTAL)	1330-20-7	8.5		470	mg/kg	NA
SB-31 0-4'	2-METHYLNAPHTHALENE	91-57-6	0.23	J	430	mg/kg	15.67
RSS 3-5-03	2-METHYLNAPHTHALENE	91-57-6	0.44	J	450	mg/kg	
RSS 3-5-03	DIBENZOFURAN	132-64-9	0.12	J	450	mg/kg	NA
SB-31 0-4'	PHENANTHRENE	85-01-8	0.12	J	430	mg/kg	20.73
RSS 3-5-03	PHENANTHRENE	85-01-8	0.29	J	450	mg/kg	
SB-31 0-4'	NAPHTHALENE	91-20-3	0.18	J	430	mg/kg	11.70
RSS 3-5-03	NAPHTHALENE	91-20-3	0.29	J	450	mg/kg	
SB-31 0-4'	ALPHA-BHC	319-84-6	0.35	J	650	mg/kg	29.55
RSS 3-5-03	ALPHA-BHC	319-84-6	0.09		68	mg/kg	
SB-31 0-4'	BETA-BHC	319-85-7	1.8		650	mg/kg	32.95
RSS 3-5-03	BETA-BHC	319-85-7	0.37		68	mg/kg	
SB-31 0-4'	GAMMA-BHC (LINDANE)	58-89-9	0.096	J	650	mg/kg	38.07
RSS 3-5-03	GAMMA-BHC (LINDANE)	58-89-9	0.013	J	68	mg/kg	
SB-31 0-4'	ALUMINUM	7429-90-5	7000		19	mg/kg	16.04
RSS 3-5-03	ALUMINUM	7429-90-5	3600		20	mg/kg	
SB-31 0-4'	ARSENIC	7440-38-2	31		0.97	mg/kg	0.00
RSS 3-5-03	ARSENIC	7440-38-2	31		1.0	mg/kg	
SB-31 0-4'	BARIUM	7440-39-3	310		0.19	mg/kg	13.53
RSS 3-5-03	BARIUM	7440-39-3	540		0.20	mg/kg	
SB-31 0-4'	BERYLLIUM	7440-41-7	0.92		0.19	mg/kg	14.79
RSS 3-5-03	BERYLLIUM	7440-41-7	0.50		0.20	mg/kg	
SB-31 0-4'	CADMIUM	7440-43-9	0.64		0.19	mg/kg	21.11
RSS 3-5-03	CADMIUM	7440-43-9	0.26		0.20	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
SB-31 0-4'	CALCIUM	7440-70-2	2500		9.7	mg/kg	5.56
RSS 3-5-03	CALCIUM	7440-70-2	2000		10	mg/kg	
SB-31 0-4'	CHROMIUM	7440-47-3	19		0.97	mg/kg	9.38
RSS 3-5-03	CHROMIUM	7440-47-3	13		1.0	mg/kg	
SB-31 0-4'	COBALT	7440-48-4	9.1		0.97	mg/kg	27.78
RSS 3-5-03	COBALT	7440-48-4	2.6		1.0	mg/kg	
SB-31 0-4'	COPPER	7440-50-8	22		0.97	mg/kg	11.11
RSS 3-5-03	COPPER	7440-50-8	14		1.0	mg/kg	
SB-31 0-4'	CYANIDE	NL	0.17		0.13	mg/kg	13.04
RSS 3-5-03	CYANIDE	NL	0.29		0.14	mg/kg	
SB-31 0-4'	IRON	7439-89-6	23000		9.7	mg/kg	4.76
RSS 3-5-03	IRON	7439-89-6	19000		10	mg/kg	
SB-31 0-4'	LEAD	7439-92-1	29		0.97	mg/kg	14.44
RSS 3-5-03	LEAD	7439-92-1	16		1.0	mg/kg	
SB-31 0-4'	MAGNESIUM	7439-95-4	1200		9.7	mg/kg	27.92
RSS 3-5-03	MAGNESIUM	7439-95-4	340		10	mg/kg	
SB-31 0-4'	MANGANESE	7439-96-5	440		1.9	mg/kg	40.35
RSS 3-5-03	MANGANESE	7439-96-5	47		2.0	mg/kg	
SB-31 0-4'	NICKEL	7440-02-0	16		0.97	mg/kg	18.97
RSS 3-5-03	NICKEL	7440-02-0	7.2		1.0	mg/kg	
SB-31 0-4'	POTASSIUM	7440-09-7	750		190	mg/kg	7.25
RSS 3-5-03	POTASSIUM	7440-09-7	560		200	mg/kg	
RSS 3-5-03	SELENIUM	7782-49-2	1.2		1.0	mg/kg	NA
SB-31 0-4'	VANADIUM	7440-62-2	22		0.97	mg/kg	9.46
RSS 3-5-03	VANADIUM	7440-62-2	15		1.0	mg/kg	
SB-31 0-4'	ZINC	7440-66-6	86		3.9	mg/kg	28.18
RSS 3-5-03	ZINC	7440-66-6	24		4.0	mg/kg	
SB-4 0-2'	2-BUTANONE	78-93-3	0.012		12	mg/kg	4.55
RSS 3-6-03	2-BUTANONE	78-93-3	0.01	J	11	mg/kg	
SB-4 0-2'	ACETONE	67-64-1	0.05		12	mg/kg	4.95
RSS 3-6-03	ACETONE	67-64-1	0.041		11	mg/kg	
RSS 3-6-03	TETRACHLOROETHENE	127-18-4	0.0076		5.6	mg/kg	NA
SB-4 0-2'	ALUMINUM	7429-90-5	7200		18	mg/kg	5.81
RSS 3-6-03	ALUMINUM	7429-90-5	5700		17	mg/kg	
SB-4 0-2'	ARSENIC	7440-38-2	6.1		0.88	mg/kg	1.20
RSS 3-6-03	ARSENIC	7440-38-2	6.4		0.83	mg/kg	
SB-4 0-2'	BARIUM	7440-39-3	380		0.18	mg/kg	14.41
RSS 3-6-03	BARIUM	7440-39-3	210		0.17	mg/kg	
SB-4 0-2'	BERYLLIUM	7440-41-7	0.53		0.18	mg/kg	0.93
RSS 3-6-03	BERYLLIUM	7440-41-7	0.55		0.17	mg/kg	
SB-4 0-2'	CADMIUM	7440-43-9	0.20		0.18	mg/kg	12.96
RSS 3-6-03	CADMIUM	7440-43-9	0.34		0.17	mg/kg	
SB-4 0-2'	CALCIUM	7440-70-2	6800		8.8	mg/kg	11.82
RSS 3-6-03	CALCIUM	7440-70-2	4200		8.3	mg/kg	
SB-4 0-2'	CHROMIUM	7440-47-3	7.6		0.88	mg/kg	5.07
RSS 3-6-03	CHROMIUM	7440-47-3	6.2		0.83	mg/kg	
SB-4 0-2'	COBALT	7440-48-4	5.6		0.88	mg/kg	2.14
RSS 3-6-03	COBALT	7440-48-4	6.1		0.83	mg/kg	
SB-4 0-2'	COPPER	7440-50-8	12		0.88	mg/kg	2.17
RSS 3-6-03	COPPER	7440-50-8	11		0.83	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
SB-4 0-2'	CYANIDE	NL	0.14		0.12	mg/kg	15.00
RSS 3-6-03	CYANIDE	NL	0.26		0.11	mg/kg	
SB-4 0-2'	IRON	7439-89-6	15000		8.8	mg/kg	0.00
RSS 3-6-03	IRON	7439-89-6	15000		8.3	mg/kg	
SB-4 0-2'	LEAD	7439-92-1	12		0.88	mg/kg	2.17
RSS 3-6-03	LEAD	7439-92-1	11		0.83	mg/kg	
SB-4 0-2'	MAGNESIUM	7439-95-4	1500		8.8	mg/kg	1.72
RSS 3-6-03	MAGNESIUM	7439-95-4	1400		8.3	mg/kg	
SB-4 0-2'	MANGANESE	7439-96-5	780		1.8	mg/kg	4.39
RSS 3-6-03	MANGANESE	7439-96-5	930		1.7	mg/kg	
SB-4 0-2'	NICKEL	7440-02-0	10		0.88	mg/kg	4.95
RSS 3-6-03	NICKEL	7440-02-0	8.2		0.83	mg/kg	
SB-4 0-2'	POTASSIUM	7440-09-7	390		180	mg/kg	9.09
RSS 3-6-03	POTASSIUM	7440-09-7	270		170	mg/kg	
SB-4 0-2'	VANADIUM	7440-62-2	11		0.88	mg/kg	4.73
RSS 3-6-03	VANADIUM	7440-62-2	9.1		0.83	mg/kg	
SB-4 0-2'	ZINC	7440-66-6	55		3.5	mg/kg	11.11
RSS 3-6-03	ZINC	7440-66-6	35		3.3	mg/kg	
RSS 3-7-03	2-BUTANONE	78-93-3	0.0097	J	12	mg/kg	NA
SB-15 0-4'	ACETONE	67-64-1	0.015		12	mg/kg	22.22
RSS 3-7-03	ACETONE	67-64-1	0.039		12	mg/kg	
SB-15 0-4'	TETRACHLOROETHENE	127-18-4	0.0097		6.0	mg/kg	12.26
RSS 3-7-03	TETRACHLOROETHENE	127-18-4	0.016		5.8	mg/kg	
RSS 3-7-03	2-METHYLNAPHTHALENE	91-57-6	0.12	J	390	mg/kg	NA
RSS 3-7-03	PHENANTHRENE	85-01-8	0.082	J	390	mg/kg	NA
RSS 3-7-03	FLUORANTHENE	206-44-0	0.084	J	390	mg/kg	NA
RSS 3-7-03	NAPHTHALENE	91-20-3	0.12	J	390	mg/kg	NA
RSS 3-7-03	ALPHA-BHC	319-84-6	0.018	J	58	mg/kg	NA
RSS 3-7-03	BETA-BHC	319-85-7	0.13		58	mg/kg	NA
SB-15 0-4'	ALUMINUM	7429-90-5	7800		18	mg/kg	4.12
RSS 3-7-03	ALUMINUM	7429-90-5	9200		17	mg/kg	
SB-15 0-4'	ARSENIC	7440-38-2	13		0.90	mg/kg	1.85
RSS 3-7-03	ARSENIC	7440-38-2	14		0.87	mg/kg	
SB-15 0-4'	BARIUM	7440-39-3	590		0.18	mg/kg	18.78
RSS 3-7-03	BARIUM	7440-39-3	1300		0.17	mg/kg	
SB-15 0-4'	BERYLLIUM	7440-41-7	0.43		0.18	mg/kg	3.26
RSS 3-7-03	BERYLLIUM	7440-41-7	0.49		0.17	mg/kg	
SB-15 0-4'	CADMIUM	7440-43-9	0.20		0.18	mg/kg	12.26
RSS 3-7-03	CADMIUM	7440-43-9	0.33		0.17	mg/kg	
SB-15 0-4'	CALCIUM	7440-70-2	1900		9.0	mg/kg	18.85
RSS 3-7-03	CALCIUM	7440-70-2	4200		8.7	mg/kg	
SB-15 0-4'	CHROMIUM	7440-47-3	8.7		0.90	mg/kg	3.48
RSS 3-7-03	CHROMIUM	7440-47-3	10		0.87	mg/kg	
SB-15 0-4'	COBALT	7440-48-4	9.2		0.90	mg/kg	4.12
RSS 3-7-03	COBALT	7440-48-4	7.8		0.87	mg/kg	
SB-15 0-4'	COPPER	7440-50-8	19		0.90	mg/kg	2.50
RSS 3-7-03	COPPER	7440-50-8	21		0.87	mg/kg	
SB-15 0-4'	IRON	7439-89-6	19000		9.0	mg/kg	1.28
RSS 3-7-03	IRON	7439-89-6	20000		8.7	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
SB-15 0-4'	LEAD	7439-92-1	14		0.90	mg/kg	6.25
RSS 3-7-03	LEAD	7439-92-1	18		0.87	mg/kg	
SB-15 0-4'	MAGNESIUM	7439-95-4	1700		9.0	mg/kg	4.05
RSS 3-7-03	MAGNESIUM	7439-95-4	2000		8.7	mg/kg	
SB-15 0-4'	MANGANESE	7439-96-5	450		1.8	mg/kg	2.33
RSS 3-7-03	MANGANESE	7439-96-5	410		1.7	mg/kg	
RSS 3-7-03	MERCURY, TOTAL	7439-97-6	4.5		0.12	mg/kg	NA
SB-15 0-4'	NICKEL	7440-02-0	12		0.90	mg/kg	2.00
RSS 3-7-03	NICKEL	7440-02-0	13		0.87	mg/kg	
SB-15 0-4'	POTASSIUM	7440-09-7	440		180	mg/kg	10.00
RSS 3-7-03	POTASSIUM	7440-09-7	660		170	mg/kg	
SB-15 0-4'	SODIUM	7440-23-5	410		180	mg/kg	3.93
RSS 3-7-03	SODIUM	7440-23-5	480		170	mg/kg	
SB-15 0-4'	VANADIUM	7440-62-2	12		0.90	mg/kg	5.56
RSS 3-7-03	VANADIUM	7440-62-2	15		0.87	mg/kg	
SB-15 0-4'	ZINC	7440-66-6	49		3.6	mg/kg	1.49
RSS 3-7-03	ZINC	7440-66-6	52		3.5	mg/kg	
SB-38 0-4'	2-BUTANONE	78-93-3	0.0093	J	12	mg/kg	NA
SB-38 0-4'	ACETONE	67-64-1	0.052		12	mg/kg	5.17
RSS 3-10-03	ACETONE	67-64-1	0.064		13	mg/kg	
SB-38 0-4'	CHLOROMETHANE	74-87-3	0.0044	J	6.1	mg/kg	NA
SB-38 0-4'	TETRACHLOROETHENE	127-18-4	0.0035	J	6.1	mg/kg	NA
RSS 3-10-03	TOLUENE	108-88-3	0.0055	J	7.2	mg/kg	NA
RSS 3-10-03	2-METHYLNAPHTHALENE	91-57-6	0.76		430	mg/kg	NA
RSS 3-10-03	DIBENZOFURAN	132-64-9	0.16	J	430	mg/kg	NA
RSS 3-10-03	PHENANTHRENE	85-01-8	0.26	J	430	mg/kg	NA
RSS 3-10-03	FLUORANTHENE	206-44-0	0.091	J	430	mg/kg	NA
RSS 3-10-03	NAPHTHALENE	91-20-3	0.65		430	mg/kg	NA
RSS 3-10-03	4,4-DDE	72-55-9	0.0084	J	13	mg/kg	NA
RSS 3-10-03	4,4-DDT	50-29-3	0.0069	J	13	mg/kg	NA
RSS 3-10-03	ALPHA-BHC	319-84-6	0.017		6.4	mg/kg	NA
RSS 3-10-03	BETA-BHC	319-85-7	0.014		6.4	mg/kg	NA
RSS 3-10-03	AROCLOR-1254	11097-69-1	0.061		0.043	mg/kg	NA
SB-38 0-4'	ALUMINUM	7429-90-5	11000		18	mg/kg	16.67
RSS 3-10-03	ALUMINUM	7429-90-5	5500		19	mg/kg	
SB-38 0-4'	ARSENIC	7440-38-2	10		0.92	mg/kg	23.68
RSS 3-10-03	ARSENIC	7440-38-2	28		0.96	mg/kg	
SB-38 0-4'	BARIUM	7440-39-3	160		0.18	mg/kg	21.43
RSS 3-10-03	BARIUM	7440-39-3	400		0.19	mg/kg	
SB-38 0-4'	BERYLLIUM	7440-41-7	0.99		0.18	mg/kg	14.29
RSS 3-10-03	BERYLLIUM	7440-41-7	0.55		0.19	mg/kg	
SB-38 0-4'	CADMIUM	7440-43-9	0.26		0.18	mg/kg	NA
SB-38 0-4'	CALCIUM	7440-70-2	2200		9.2	mg/kg	7.89
RSS 3-10-03	CALCIUM	7440-70-2	1600		9.6	mg/kg	
SB-38 0-4'	CHROMIUM	7440-47-3	14		0.92	mg/kg	37.39
RSS 3-10-03	CHROMIUM	7440-47-3	97		0.96	mg/kg	
SB-38 0-4'	COBALT	7440-48-4	13		0.92	mg/kg	15.00
RSS 3-10-03	COBALT	7440-48-4	7.0		0.96	mg/kg	
SB-38 0-4'	COPPER	7440-50-8	15		0.92	mg/kg	1.61
RSS 3-10-03	COPPER	7440-50-8	16		0.96	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
SB-38 0-4'	CYANIDE	NL	0.24		0.12	mg/kg	7.14
RSS 3-10-03	CYANIDE	NL	0.18		0.13	mg/kg	
SB-38 0-4'	IRON	7439-89-6	32000		92	mg/kg	6.14
RSS 3-10-03	IRON	7439-89-6	25000		9.6	mg/kg	
SB-38 0-4'	LEAD	7439-92-1	14		0.92	mg/kg	28.79
RSS 3-10-03	LEAD	7439-92-1	52		0.96	mg/kg	
SB-38 0-4'	MAGNESIUM	7439-95-4	2000		9.2	mg/kg	25.19
RSS 3-10-03	MAGNESIUM	7439-95-4	660		9.6	mg/kg	
SB-38 0-4'	MANGANESE	7439-96-5	1100		1.8	mg/kg	30.29
RSS 3-10-03	MANGANESE	7439-96-5	270		1.9	mg/kg	
RSS 3-10-03	MERCURY, TOTAL	7439-97-6	1.0		0.13	mg/kg	NA
SB-38 0-4'	NICKEL	7440-02-0	20		0.92	mg/kg	12.50
RSS 3-10-03	NICKEL	7440-02-0	12		0.96	mg/kg	
SB-38 0-4'	POTASSIUM	7440-09-7	840		180	mg/kg	6.00
RSS 3-10-03	POTASSIUM	7440-09-7	660		190	mg/kg	
SB-38 0-4'	SELENIUM	7782-49-2	1.6		0.92	mg/kg	6.76
RSS 3-10-03	SELENIUM	7782-49-2	2.1		0.96	mg/kg	
RSS 3-10-03	SILVER	7440-22-4	1.1		0.96	mg/kg	NA
RSS 3-10-03	SODIUM	7440-23-5	250		190	mg/kg	NA
SB-38 0-4'	VANADIUM	7440-62-2	21		0.92	mg/kg	42.78
RSS 3-10-03	VANADIUM	7440-62-2	270		0.96	mg/kg	
SB-38 0-4'	ZINC	7440-66-6	67		3.7	mg/kg	10.36
RSS 3-10-03	ZINC	7440-66-6	44		3.8	mg/kg	
RSS 3-11-03	1,2,4-TRICHLOROBENZENE	120-82-1	0.0043	J	6.0	mg/kg	NA
SB-39 0-4'	ACETONE	67-64-1	0.024		12	mg/kg	22.09
RSS 3-11-03	ACETONE	67-64-1	0.062		12	mg/kg	
RSS 3-11-03	CHLOROMETHANE	74-87-3	0.013		6.0	mg/kg	NA
RSS 3-11-03	CIS-1,2-DICHLOROETHENE	156-59-2	0.0048	J	6.0	mg/kg	NA
RSS 3-11-03	TETRACHLOROETHENE	127-18-4	0.0068		6.0	mg/kg	NA
SB-39 0-4'	ALUMINUM	7429-90-5	7400		18	mg/kg	0.67
RSS 3-11-03	ALUMINUM	7429-90-5	7600		18	mg/kg	
SB-39 0-4'	ARSENIC	7440-38-2	8.5		0.92	mg/kg	4.05
RSS 3-11-03	ARSENIC	7440-38-2	10		0.89	mg/kg	
SB-39 0-4'	BARIUM	7440-39-3	220		0.18	mg/kg	11.11
RSS 3-11-03	BARIUM	7440-39-3	140		0.18	mg/kg	
SB-39 0-4'	BERYLLIUM	7440-41-7	0.88		0.18	mg/kg	2.17
RSS 3-11-03	BERYLLIUM	7440-41-7	0.96		0.18	mg/kg	
SB-39 0-4'	CADMIUM	7440-43-9	0.64		0.18	mg/kg	6.76
RSS 3-11-03	CADMIUM	7440-43-9	0.84		0.18	mg/kg	
SB-39 0-4'	CALCIUM	7440-70-2	1700		9.2	mg/kg	1.52
RSS 3-11-03	CALCIUM	7440-70-2	1600		8.9	mg/kg	
SB-39 0-4'	CHROMIUM	7440-47-3	13		0.92	mg/kg	3.57
RSS 3-11-03	CHROMIUM	7440-47-3	15		0.89	mg/kg	
SB-39 0-4'	COBALT	7440-48-4	12		0.92	mg/kg	0.00
RSS 3-11-03	COBALT	7440-48-4	12		0.89	mg/kg	
SB-39 0-4'	COPPER	7440-50-8	17		0.92	mg/kg	10.47
RSS 3-11-03	COPPER	7440-50-8	26		0.89	mg/kg	
SB-39 0-4'	CYANIDE	NL	0.18		0.12	mg/kg	8.14
RSS 3-11-03	CYANIDE	NL	0.25		0.12	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
SB-39 0-4'	IRON	7439-89-6	24000		9.2	mg/kg	5.56
RSS 3-11-03	IRON	7439-89-6	30000		89	mg/kg	
SB-39 0-4'	LEAD	7439-92-1	17		0.92	mg/kg	15.31
RSS 3-11-03	LEAD	7439-92-1	32		0.89	mg/kg	
SB-39 0-4'	MAGNESIUM	7439-95-4	1500		9.2	mg/kg	1.72
RSS 3-11-03	MAGNESIUM	7439-95-4	1400		8.9	mg/kg	
SB-39 0-4'	MANGANESE	7439-96-5	890		1.8	mg/kg	5.97
RSS 3-11-03	MANGANESE	7439-96-5	700		1.8	mg/kg	
RSS 3-11-03	MERCURY, TOTAL	7439-97-6	0.14		0.12	mg/kg	NA
SB-39 0-4'	NICKEL	7440-02-0	20		0.92	mg/kg	1.22
RSS 3-11-03	NICKEL	7440-02-0	21		0.89	mg/kg	
SB-39 0-4'	POTASSIUM	7440-09-7	750		180	mg/kg	1.92
RSS 3-11-03	POTASSIUM	7440-09-7	810		180	mg/kg	
RSS 3-11-03	SELENIUM	7782-49-2	1.3		0.89	mg/kg	NA
SB-39 0-4'	SODIUM	7440-23-5	200		180	mg/kg	NA
SB-39 0-4'	VANADIUM	7440-62-2	15		0.92	mg/kg	0.00
RSS 3-11-03	VANADIUM	7440-62-2	15		0.89	mg/kg	
SB-39 0-4'	ZINC	7440-66-6	77		3.7	mg/kg	8.82
RSS 3-11-03	ZINC	7440-66-6	110		3.6	mg/kg	
SB-19 0-4'	ACETONE	67-64-1	0.023		12	mg/kg	4.76
RSS 3-12-03	ACETONE	67-64-1	0.019		12	mg/kg	
SB-19 0-4'	TETRACHLOROETHENE	127-18-4	0.014		9.3	mg/kg	17.31
RSS 3-12-03	TETRACHLOROETHENE	127-18-4	0.0068		6.0	mg/kg	
SB-19 0-4'	ALPHA-BHC	319-84-6	0.0046	J	5.8	mg/kg	NA
SB-19 0-4'	BETA-BHC	319-85-7	0.0065		5.8	mg/kg	NA
SB-19 0-4'	DELTA-BHC	319-86-8	0.0079		5.8	mg/kg	NA
SB-19 0-4'	ALUMINUM	7429-90-5	7500		17	mg/kg	1.37
RSS 3-12-03	ALUMINUM	7429-90-5	7100		18	mg/kg	
SB-19 0-4'	ARSENIC	7440-38-2	13		0.87	mg/kg	2.00
RSS 3-12-03	ARSENIC	7440-38-2	12		0.90	mg/kg	
SB-19 0-4'	BARIUM	7440-39-3	280		0.17	mg/kg	12.22
RSS 3-12-03	BARIUM	7440-39-3	170		0.18	mg/kg	
SB-19 0-4'	BERYLLIUM	7440-41-7	0.40		0.17	mg/kg	0.00
RSS 3-12-03	BERYLLIUM	7440-41-7	0.40		0.18	mg/kg	
SB-19 0-4'	CADMIUM	7440-43-9	0.28		0.17	mg/kg	2.83
RSS 3-12-03	CADMIUM	7440-43-9	0.25		0.18	mg/kg	
SB-19 0-4'	CALCIUM	7440-70-2	1400		8.7	mg/kg	3.33
RSS 3-12-03	CALCIUM	7440-70-2	1600		9.0	mg/kg	
SB-19 0-4'	CHROMIUM	7440-47-3	9.4		0.87	mg/kg	1.37
RSS 3-12-03	CHROMIUM	7440-47-3	8.9		0.90	mg/kg	
SB-19 0-4'	COBALT	7440-48-4	8.4		0.87	mg/kg	3.16
RSS 3-12-03	COBALT	7440-48-4	7.4		0.90	mg/kg	
SB-19 0-4'	COPPER	7440-50-8	15		0.87	mg/kg	1.72
RSS 3-12-03	COPPER	7440-50-8	14		0.90	mg/kg	
SB-19 0-4'	IRON	7439-89-6	19000		8.7	mg/kg	0.00
RSS 3-12-03	IRON	7439-89-6	19000		9.0	mg/kg	
SB-19 0-4'	LEAD	7439-92-1	12		0.87	mg/kg	2.17
RSS 3-12-03	LEAD	7439-92-1	11		0.90	mg/kg	
SB-19 0-4'	MAGNESIUM	7439-95-4	1500		8.7	mg/kg	1.72
RSS 3-12-03	MAGNESIUM	7439-95-4	1400		9.0	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
SB-19 0-4'	MANGANESE	7439-96-5	470		1.7	mg/kg	4.02
RSS 3-12-03	MANGANESE	7439-96-5	400		1.8	mg/kg	
RSS 3-12-03	MERCURY, TOTAL	7439-97-6	0.12		0.12	mg/kg	NA
SB-19 0-4'	NICKEL	7440-02-0	12		0.87	mg/kg	0.00
RSS 3-12-03	NICKEL	7440-02-0	12		0.90	mg/kg	
SB-19 0-4'	POTASSIUM	7440-09-7	580		170	mg/kg	5.24
RSS 3-12-03	POTASSIUM	7440-09-7	470		180	mg/kg	
SB-19 0-4'	SODIUM	7440-23-5	200		170	mg/kg	NA
SB-19 0-4'	VANADIUM	7440-62-2	14		0.87	mg/kg	0.00
RSS 3-12-03	VANADIUM	7440-62-2	14		0.90	mg/kg	
SB-19 0-4'	ZINC	7440-66-6	43		3.5	mg/kg	3.09
RSS 3-12-03	ZINC	7440-66-6	38		3.6	mg/kg	
RSS 3-13-03	1,2-DICHLOROBENZENE	95-50-1	0.0069		5.9	mg/kg	NA
RSS 3-13-03	1,4-DICHLOROBENZENE	106-46-7	0.005	J	5.9	mg/kg	NA
SB-24 0-4'	ACETONE	67-64-1	0.026		13	mg/kg	18.42
RSS 3-13-03	ACETONE	67-64-1	0.012	J	12	mg/kg	
RSS 3-13-03	CARBON DISULFIDE	75-15-0	0.0035	J	5.9	mg/kg	NA
SB-24 0-4'	TETRACHLOROETHENE	127-18-4	0.0036	J	6.4	mg/kg	16.97
RSS 3-13-03	TETRACHLOROETHENE	127-18-4	0.0073		5.9	mg/kg	
SB-24 0-4'	ALUMINUM	7429-90-5	9300		19	mg/kg	1.31
RSS 3-13-03	ALUMINUM	7429-90-5	9800		18	mg/kg	
SB-24 0-4'	ARSENIC	7440-38-2	12		0.96	mg/kg	2.00
RSS 3-13-03	ARSENIC	7440-38-2	13		0.89	mg/kg	
SB-24 0-4'	BARIUM	7440-39-3	26		0.19	mg/kg	36.73
RSS 3-13-03	BARIUM	7440-39-3	170		0.18	mg/kg	
SB-24 0-4'	BERYLLIUM	7440-41-7	0.40		0.19	mg/kg	16.10
RSS 3-13-03	BERYLLIUM	7440-41-7	0.78		0.18	mg/kg	
SB-24 0-4'	CADMIUM	7440-43-9	0.58		0.19	mg/kg	5.77
RSS 3-13-03	CADMIUM	7440-43-9	0.46		0.18	mg/kg	
SB-24 0-4'	CALCIUM	7440-70-2	330		9.6	mg/kg	47.09
RSS 3-13-03	CALCIUM	7440-70-2	11000		8.9	mg/kg	
SB-24 0-4'	CHROMIUM	7440-47-3	12		0.96	mg/kg	5.05
RSS 3-13-03	CHROMIUM	7440-47-3	9.8		0.89	mg/kg	
SB-24 0-4'	COBALT	7440-48-4	8.8		0.96	mg/kg	2.69
RSS 3-13-03	COBALT	7440-48-4	7.9		0.89	mg/kg	
SB-24 0-4'	COPPER	7440-50-8	22		0.96	mg/kg	1.16
RSS 3-13-03	COPPER	7440-50-8	21		0.89	mg/kg	
SB-24 0-4'	IRON	7439-89-6	20000		9.6	mg/kg	0.00
RSS 3-13-03	IRON	7439-89-6	20000		8.9	mg/kg	
SB-24 0-4'	LEAD	7439-92-1	11		0.96	mg/kg	9.26
RSS 3-13-03	LEAD	7439-92-1	16		0.89	mg/kg	
SB-24 0-4'	MAGNESIUM	7439-95-4	2400		9.6	mg/kg	3.85
RSS 3-13-03	MAGNESIUM	7439-95-4	2800		8.9	mg/kg	
SB-24 0-4'	MANGANESE	7439-96-5	360		1.9	mg/kg	6.63
RSS 3-13-03	MANGANESE	7439-96-5	470		1.8	mg/kg	
SB-24 0-4'	NICKEL	7440-02-0	17		0.96	mg/kg	6.67
RSS 3-13-03	NICKEL	7440-02-0	13		0.89	mg/kg	
SB-24 0-4'	POTASSIUM	7440-09-7	790		190	mg/kg	2.41
RSS 3-13-03	POTASSIUM	7440-09-7	870		180	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
SB-24 0-4'	VANADIUM	7440-62-2	14		0.96	mg/kg	1.72
RSS 3-13-03	VANADIUM	7440-62-2	15		0.89	mg/kg	
SB-24 0-4'	ZINC	7440-66-6	54		3.8	mg/kg	3.85
RSS 3-13-03	ZINC	7440-66-6	63		3.6	mg/kg	
SB-17 0-4'	ACETONE	67-64-1	0.02		12	mg/kg	4.55
RSS 3-14-03	ACETONE	67-64-1	0.024		12	mg/kg	
SB-17 0-4'	CARBON DISULFIDE	75-15-0	0.0071		6.3	mg/kg	NA
SB-17 0-4'	TETRACHLOROETHENE	127-18-4	0.017		6.3	mg/kg	12.22
RSS 3-14-03	TETRACHLOROETHENE	127-18-4	0.028		5.8	mg/kg	
SB-17 0-4'	TRICHLOROETHENE	79-01-6	0.0034	J	6.3	mg/kg	13.83
RSS 3-14-03	TRICHLOROETHENE	79-01-6	0.006		5.8	mg/kg	
SB-17 0-4'	CARBAZOLE	86-74-8	0.16	J	420	mg/kg	NA
SB-17 0-4'	DIBENZOFURAN	132-64-9	0.092	J	420	mg/kg	NA
SB-17 0-4'	ACENAPHTHENE	83-32-9	0.32	J	420	mg/kg	NA
SB-17 0-4'	ANTHRACENE	120-12-7	0.34	J	420	mg/kg	NA
SB-17 0-4'	BENZO(A)ANTHRACENE	56-55-3	0.74		420	mg/kg	NA
SB-17 0-4'	BENZO(A)PYRENE	50-32-8	1.1		420	mg/kg	NA
SB-17 0-4'	BENZO(B)FLUORANTHENE	205-99-2	0.89		420	mg/kg	NA
SB-17 0-4'	BENZO(G,H,I)PERYLENE	191-24-2	0.65		420	mg/kg	NA
SB-17 0-4'	BENZO(K)FLUORANTHENE	207-08-9	1.1		420	mg/kg	NA
SB-17 0-4'	CHRYSENE	218-01-9	0.8		420	mg/kg	NA
SB-17 0-4'	FLUORANTHENE	206-44-0	2.8		420	mg/kg	NA
SB-17 0-4'	FLUORENE	86-73-7	0.18	J	420	mg/kg	NA
SB-17 0-4'	INDENO(1,2,3-CD)PYRENE	193-39-5	0.56	J	840	mg/kg	NA
SB-17 0-4'	NAPHTHALENE	91-20-3	0.16	J	420	mg/kg	NA
SB-17 0-4'	PHENANTHRENE	85-01-8	1.9		420	mg/kg	NA
SB-17 0-4'	PYRENE	129-00-0	1.8		420	mg/kg	NA
SB-17 0-4'	BETA-BHC	319-85-7	1.9		630	mg/kg	NA
SB-17 0-4'	ALUMINUM	7429-90-5	8000		19	mg/kg	0.00
RSS 3-14-03	ALUMINUM	7429-90-5	8000		18	mg/kg	
SB-17 0-4'	ARSENIC	7440-38-2	7.6		0.94	mg/kg	9.14
RSS 3-14-03	ARSENIC	7440-38-2	11		0.88	mg/kg	
SB-17 0-4'	BARIUM	7440-39-3	150		0.19	mg/kg	21.77
RSS 3-14-03	BARIUM	7440-39-3	59		0.18	mg/kg	
SB-17 0-4'	BERYLLIUM	7440-41-7	1.0		0.19	mg/kg	14.10
RSS 3-14-03	BERYLLIUM	7440-41-7	0.56		0.18	mg/kg	
SB-17 0-4'	CADMIUM	7440-43-9	0.36		0.19	mg/kg	5.56
RSS 3-14-03	CADMIUM	7440-43-9	0.45		0.18	mg/kg	
SB-17 0-4'	CALCIUM	7440-70-2	10000		9.4	mg/kg	33.33
RSS 3-14-03	CALCIUM	7440-70-2	2000		8.8	mg/kg	
SB-17 0-4'	CHROMIUM	7440-47-3	8.1		0.94	mg/kg	4.49
RSS 3-14-03	CHROMIUM	7440-47-3	9.7		0.88	mg/kg	
SB-17 0-4'	COBALT	7440-48-4	5.4		0.94	mg/kg	12.50
RSS 3-14-03	COBALT	7440-48-4	9.0		0.88	mg/kg	
SB-17 0-4'	COPPER	7440-50-8	13		0.94	mg/kg	6.67
RSS 3-14-03	COPPER	7440-50-8	17		0.88	mg/kg	
SB-17 0-4'	IRON	7439-89-6	13000		9.4	mg/kg	8.06
RSS 3-14-03	IRON	7439-89-6	18000		8.8	mg/kg	
SB-17 0-4'	LEAD	7439-92-1	12		0.94	mg/kg	22.73
RSS 3-14-03	LEAD	7439-92-1	32		0.88	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
SB-17 0-4'	MAGNESIUM	7439-95-4	4400		9.4	mg/kg	23.33
RSS 3-14-03	MAGNESIUM	7439-95-4	1600		8.8	mg/kg	
SB-17 0-4'	MANGANESE	7439-96-5	470		1.9	mg/kg	3.47
RSS 3-14-03	MANGANESE	7439-96-5	540		1.8	mg/kg	
SB-17 0-4'	MERCURY, TOTAL	7439-97-6	0.38		0.12	mg/kg	21.70
RSS 3-14-03	MERCURY, TOTAL	7439-97-6	0.15		0.12	mg/kg	
SB-17 0-4'	NICKEL	7440-02-0	10		0.94	mg/kg	6.52
RSS 3-14-03	NICKEL	7440-02-0	13		0.88	mg/kg	
SB-17 0-4'	POTASSIUM	7440-09-7	680		190	mg/kg	0.36
RSS 3-14-03	POTASSIUM	7440-09-7	690		180	mg/kg	
SB-17 0-4'	SODIUM	7440-23-5	220		190	mg/kg	3.66
RSS 3-14-03	SODIUM	7440-23-5	190		180	mg/kg	
SB-17 0-4'	VANADIUM	7440-62-2	10		0.94	mg/kg	8.33
RSS 3-14-03	VANADIUM	7440-62-2	14		0.88	mg/kg	
SB-17 0-4'	ZINC	7440-66-6	39		3.8	mg/kg	3.01
RSS 3-14-03	ZINC	7440-66-6	44		3.5	mg/kg	
MWDEP-4B-0'-2'	1,2,4-TRICHLOROBENZENE	120-82-1	0.004	J	0.006	mg/kg	NA
MWDEP-4B-0'-2'	ACETONE	67-64-1	0.05		0.012	mg/kg	1.02
RSS 3-24-03	ACETONE	67-64-1	0.048		0.012	mg/kg	
MWDEP-4B-0'-2'	2-METHYLNAPHTHALENE	91-57-6	0.39	J	0.39	mg/kg	2.44
RSS 3-24-03	2-METHYLNAPHTHALENE	91-57-6	0.43		0.4	mg/kg	
RSS 3-24-03	DIBENZOFURAN	132-64-9	0.1	J	0.4	mg/kg	NA
MWDEP-4B-0'-2'	PHENANTHRENE	85-01-8	0.17	J	0.39	mg/kg	5.26
RSS 3-24-03	PHENANTHRENE	85-01-8	0.21	J	0.4	mg/kg	
MWDEP-4B-0'-2'	NAPHTHALENE	91-20-3	0.28	J	0.39	mg/kg	3.33
RSS 3-24-03	NAPHTHALENE	91-20-3	0.32	J	0.4	mg/kg	
MWDEP-4B-0'-2'	ALPHA-BHC	319-84-6	0.011	J	0.03	mg/kg	46.09
RSS 3-24-03	ALPHA-BHC	319-84-6	0.27		0.059	mg/kg	
RSS 3-24-03	BETA-BHC	319-85-7	0.17		0.059	mg/kg	NA
RSS 3-24-03	GAMMA-BHC (LINDANE)	58-89-9	0.028	J	0.059	mg/kg	NA
MWDEP-4B-0'-2'	ALUMINUM	7429-90-5	70		18	mg/kg	1.47
RSS 3-24-03	ALUMINUM	7429-90-5	66		18	mg/kg	
MWDEP-4B-0'-2'	BARIUM	7440-39-3	2.8		0.18	mg/kg	8.33
RSS 3-24-03	BARIUM	7440-39-3	2.0		0.18	mg/kg	
MWDEP-4B-0'-2'	IRON	7439-89-6	200		8.9	mg/kg	0.00
RSS 3-24-03	IRON	7439-89-6	200		8.9	mg/kg	
MWDEP-4B-0'-2'	MAGNESIUM	7439-95-4	13		8.9	mg/kg	2.00
RSS 3-24-03	MAGNESIUM	7439-95-4	12		8.9	mg/kg	
MWDEP-4B-0'-2'	MANGANESE	7439-96-5	4.2		1.8	mg/kg	2.50
RSS 3-24-03	MANGANESE	7439-96-5	3.8		1.8	mg/kg	
MWDEP-6A-0'-2'	1,2,4-TRICHLOROBENZENE	120-82-1	0.87		0.55	mg/kg	NA
RSS 3-25-03	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.012		0.01	mg/kg	NA
MWDEP-6A-0'-2'	1,2-DICHLOROBENZENE	95-50-1	0.6		0.55	mg/kg	48.62
RSS 3-25-03	1,2-DICHLOROBENZENE	95-50-1	0.0084	J	0.01	mg/kg	
MWDEP-6A-0'-2'	1,4-DICHLOROBENZENE	106-46-7	0.76		0.55	mg/kg	49.06
RSS 3-25-03	1,4-DICHLOROBENZENE	106-46-7	0.0072	J	0.01	mg/kg	
MWDEP-6A-0'-2'	2-BUTANONE	78-93-3	0.7		0.55	mg/kg	47.36
RSS 3-25-03	2-BUTANONE	78-93-3	0.019		0.019	mg/kg	
RSS 3-25-03	ACETONE	67-64-1	0.068		0.019	mg/kg	NA

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
MWDEP-6A-0'-2'	TETRACHLOROETHENE	127-18-4	6.2		1.1	mg/kg	49.30
RSS 3-25-03	TETRACHLOROETHENE	127-18-4	0.044		0.01	mg/kg	
MWDEP-6A-0'-2'	TRICHLOROETHENE	79-01-6	0.37	J	0.55	mg/kg	45.61
RSS 3-25-03	TRICHLOROETHENE	79-01-6	0.017		0.01	mg/kg	
MWDEP-6A-0'-2'	1,2,4,5-TETRACHLOROBENZENE	95-94-3	3.8		0.6	mg/kg	30.85
RSS 3-25-03	1,2,4,5-TETRACHLOROBENZENE	95-94-3	0.9		0.61	mg/kg	
MWDEP-6A-0'-2'	2-CHLORONAPHTHALENE	91-58-7	3.1		0.61	mg/kg	27.89
RSS 3-25-03	2-CHLORONAPHTHALENE	91-58-7	0.88		0.62	mg/kg	
MWDEP-6A-0'-2'	2-METHYLNAPHTHALENE	91-57-6	0.31	J	0.61	mg/kg	NA
MWDEP-6A-0'-2'	HEXACHLOROBENZENE	118-74-1	160		61	mg/kg	18.67
RSS 3-25-03	HEXACHLOROBENZENE	118-74-1	73		6.2	mg/kg	
MWDEP-6A-0'-2'	HEXACHLOROBUTADIENE	87-68-3	350		120	mg/kg	37.72
RSS 3-25-03	HEXACHLOROBUTADIENE	87-68-3	49		12	mg/kg	
MWDEP-6A-0'-2'	HEXACHLOROETHANE	67-72-1	8.7		0.61	mg/kg	45.50
RSS 3-25-03	HEXACHLOROETHANE	67-72-1	0.41	J	0.62	mg/kg	
MWDEP-6A-0'-2'	PHENANTHRENE	85-01-8	0.15	J	0.61	mg/kg	NA
RSS 3-25-03	BETA-BHC	319-85-7	4.4		0.46	mg/kg	NA
MWDEP-6A-0'-2'	ALUMINUM	7429-90-5	79		27	mg/kg	2.98
RSS 3-25-03	ALUMINUM	7429-90-5	89		28	mg/kg	
MWDEP-6A-0'-2'	BARIUM	7440-39-3	0.70		0.27	mg/kg	20.00
RSS 3-25-03	BARIUM	7440-39-3	0.30		0.28	mg/kg	
MWDEP-6A-0'-2'	CYANIDE	NL	1.8		0.18	mg/kg	2.63
RSS 3-25-03	CYANIDE	NL	2.0		0.19	mg/kg	
MWDEP-6A-0'-2'	IRON	7439-89-6	68		14	mg/kg	2.45
RSS 3-25-03	IRON	7439-89-6	75		14	mg/kg	
MWDEP-6A-0'-2'	MERCURY, TOTAL	7439-97-6	0.29		0.18	mg/kg	1.79
RSS 3-25-03	MERCURY, TOTAL	7439-97-6	0.27		0.19	mg/kg	
MWDEP-6B-15'-17'	1,1,2,2-TETRACHLOROETHANE	79-34-5	0.0028	J	6.2	mg/kg	6.92
RSS 3-26-03	1,1,2,2-TETRACHLOROETHANE	79-34-5	0.0037	J	6.3	mg/kg	
MWDEP-6B-15'-17'	1,2,4-TRICHLOROBENZENE	120-82-1	0.0024	J	6.2	mg/kg	29.83
RSS 3-26-03	1,2,4-TRICHLOROBENZENE	120-82-1	0.0095		6.3	mg/kg	
MWDEP-6B-15'-17'	1,2-DICHLOROBENZENE	95-50-1	0.011		6.2	mg/kg	25.00
RSS 3-26-03	1,2-DICHLOROBENZENE	95-50-1	0.033		6.3	mg/kg	
MWDEP-6B-15'-17'	1,4-DICHLOROBENZENE	106-46-7	0.014		6.2	mg/kg	26.67
RSS 3-26-03	1,4-DICHLOROBENZENE	106-46-7	0.046		6.3	mg/kg	
MWDEP-6B-15'-17'	2-BUTANONE	78-93-3	0.0089	J	12	mg/kg	NA
MWDEP-6B-15'-17'	ACETONE	67-64-1	0.031		12	mg/kg	1.56
RSS 3-26-03	ACETONE	67-64-1	0.033		12	mg/kg	
RSS 3-26-03	CHLOROBENZENE	108-90-7	0.0031	J	6.3	mg/kg	NA
MWDEP-6B-15'-17'	CIS-1,2-DICHLOROETHENE	156-59-2	0.1		6.2	mg/kg	11.54
RSS 3-26-03	CIS-1,2-DICHLOROETHENE	156-59-2	0.16		6.3	mg/kg	
MWDEP-6B-15'-17'	TETRACHLOROETHENE	127-18-4	0.0064		6.2	mg/kg	24.80
RSS 3-26-03	TETRACHLOROETHENE	127-18-4	0.019		6.3	mg/kg	
MWDEP-6B-15'-17'	TRICHLOROETHENE	79-01-6	0.0027	J	6.2	mg/kg	14.47
RSS 3-26-03	TRICHLOROETHENE	79-01-6	0.0049	J	6.3	mg/kg	
MWDEP-6B-15'-17'	VINYL CHLORIDE	75-01-4	0.0063		6.2	mg/kg	21.75
RSS 3-26-03	VINYL CHLORIDE	75-01-4	0.016		6.3	mg/kg	
RSS 3-26-03	HEXACHLOROBENZENE	118-74-1	0.085	J	420	mg/kg	NA
RSS 3-26-03	HEXACHLOROBUTADIENE	87-68-3	0.23	J	840	mg/kg	NA

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
MWDEP-6B-15'-17'	BETA-BHC	319-85-7	0.0094		6.2	mg/kg	8.04
RSS 3-26-03	BETA-BHC	319-85-7	0.013		6.3	mg/kg	
MWDEP-6B-15'-17'	ALUMINUM	7429-90-5	9000		19	mg/kg	7.14
RSS 3-26-03	ALUMINUM	7429-90-5	12000		19	mg/kg	
MWDEP-6B-15'-17'	ARSENIC	7440-38-2	8.8		0.94	mg/kg	2.94
RSS 3-26-03	ARSENIC	7440-38-2	9.9		0.94	mg/kg	
MWDEP-6B-15'-17'	BARIUM	7440-39-3	180		0.19	mg/kg	10.00
RSS 3-26-03	BARIUM	7440-39-3	120		0.19	mg/kg	
MWDEP-6B-15'-17'	BERYLLIUM	7440-41-7	0.76		0.19	mg/kg	3.37
RSS 3-26-03	BERYLLIUM	7440-41-7	0.87		0.19	mg/kg	
MWDEP-6B-15'-17'	CALCIUM	7440-70-2	920		9.4	mg/kg	20.51
RSS 3-26-03	CALCIUM	7440-70-2	2200		9.4	mg/kg	
MWDEP-6B-15'-17'	CHROMIUM	7440-47-3	13		0.94	mg/kg	5.17
RSS 3-26-03	CHROMIUM	7440-47-3	16		0.94	mg/kg	
MWDEP-6B-15'-17'	COBALT	7440-48-4	9.0		0.94	mg/kg	5.00
RSS 3-26-03	COBALT	7440-48-4	11		0.94	mg/kg	
MWDEP-6B-15'-17'	COPPER	7440-50-8	12		0.94	mg/kg	2.00
RSS 3-26-03	COPPER	7440-50-8	13		0.94	mg/kg	
MWDEP-6B-15'-17'	IRON	7439-89-6	24000		9.4	mg/kg	2.94
RSS 3-26-03	IRON	7439-89-6	27000		9.4	mg/kg	
MWDEP-6B-15'-17'	LEAD	7439-92-1	10		0.94	mg/kg	4.55
RSS 3-26-03	LEAD	7439-92-1	12		0.94	mg/kg	
MWDEP-6B-15'-17'	MAGNESIUM	7439-95-4	1600		9.4	mg/kg	4.29
RSS 3-26-03	MAGNESIUM	7439-95-4	1900		9.4	mg/kg	
MWDEP-6B-15'-17'	MANGANESE	7439-96-5	430		1.9	mg/kg	11.26
RSS 3-26-03	MANGANESE	7439-96-5	680		1.9	mg/kg	
MWDEP-6B-15'-17'	NICKEL	7440-02-0	18		0.94	mg/kg	2.63
RSS 3-26-03	NICKEL	7440-02-0	20		0.94	mg/kg	
MWDEP-6B-15'-17'	POTASSIUM	7440-09-7	1300		190	mg/kg	6.67
RSS 3-26-03	POTASSIUM	7440-09-7	1700		190	mg/kg	
MWDEP-6B-15'-17'	SELENIUM	7782-49-2	0.99		0.94	mg/kg	0.51
RSS 3-26-03	SELENIUM	7782-49-2	0.97		0.94	mg/kg	
MWDEP-6B-15'-17'	SODIUM	7440-23-5	230		190	mg/kg	3.06
RSS 3-26-03	SODIUM	7440-23-5	260		190	mg/kg	
MWDEP-6B-15'-17'	VANADIUM	7440-62-2	19		0.94	mg/kg	5.81
RSS 3-26-03	VANADIUM	7440-62-2	24		0.94	mg/kg	
MWDEP-6B-15'-17'	ZINC	7440-66-6	54		3.7	mg/kg	1.79
RSS 3-26-03	ZINC	7440-66-6	58		3.8	mg/kg	
MWDEP-1B-0'-2'	2-BUTANONE	78-93-3	0.0098	J	12	mg/kg	26.56
RSS 3-27-03	2-BUTANONE	78-93-3	0.032		12	mg/kg	
MWDEP-1B-0'-2'	ACETONE	67-64-1	0.044		12	mg/kg	19.44
RSS 3-27-03	ACETONE	67-64-1	0.1		12	mg/kg	
RSS 3-27-03	CHLOROMETHANE	74-87-3	0.0061	J	6.2	mg/kg	NA
RSS 3-27-03	ALPHA-BHC	319-84-6	0.0046	J	6.2	mg/kg	NA
RSS 3-27-03	BETA-BHC	319-85-7	0.0042	J	6.2	mg/kg	NA
RSS 3-27-03	DELTA-BHC	319-86-8	0.0007	J	6.2	mg/kg	NA
RSS 3-27-03	GAMMA-BHC (LINDANE)	58-89-9	0.0019	J	6.2	mg/kg	NA
MWDEP-1B-0'-2'	ALUMINUM	7429-90-5	9200		18	mg/kg	6.60
RSS 3-27-03	ALUMINUM	7429-90-5	12000		18	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
MWDEP-1B-0'-2'	ARSENIC	7440-38-2	8.5		0.92	mg/kg	1.52
RSS 3-27-03	ARSENIC	7440-38-2	8.0		0.92	mg/kg	
MWDEP-1B-0'-2'	BARIUM	7440-39-3	410		0.18	mg/kg	1.76
RSS 3-27-03	BARIUM	7440-39-3	440		0.18	mg/kg	
MWDEP-1B-0'-2'	BERYLLIUM	7440-41-7	0.85		0.18	mg/kg	1.43
RSS 3-27-03	BERYLLIUM	7440-41-7	0.90		0.18	mg/kg	
MWDEP-1B-0'-2'	CALCIUM	7440-70-2	960		9.2	mg/kg	5.56
RSS 3-27-03	CALCIUM	7440-70-2	1200		9.2	mg/kg	
MWDEP-1B-0'-2'	CHROMIUM	7440-47-3	10		0.92	mg/kg	4.55
RSS 3-27-03	CHROMIUM	7440-47-3	12		0.92	mg/kg	
MWDEP-1B-0'-2'	COBALT	7440-48-4	8.7		0.92	mg/kg	4.72
RSS 3-27-03	COBALT	7440-48-4	7.2		0.92	mg/kg	
MWDEP-1B-0'-2'	COPPER	7440-50-8	10		0.92	mg/kg	2.38
RSS 3-27-03	COPPER	7440-50-8	11		0.92	mg/kg	
MWDEP-1B-0'-2'	CYANIDE	NL	0.12	J	0.12	mg/kg	5.56
RSS 3-27-03	CYANIDE	NL	0.15		0.12	mg/kg	
MWDEP-1B-0'-2'	IRON	7439-89-6	16000		9.2	mg/kg	1.52
RSS 3-27-03	IRON	7439-89-6	17000		9.2	mg/kg	
MWDEP-1B-0'-2'	LEAD	7439-92-1	18		0.92	mg/kg	2.94
RSS 3-27-03	LEAD	7439-92-1	16		0.92	mg/kg	
MWDEP-1B-0'-2'	MAGNESIUM	7439-95-4	1500		9.2	mg/kg	1.61
RSS 3-27-03	MAGNESIUM	7439-95-4	1600		9.2	mg/kg	
MWDEP-1B-0'-2'	MANGANESE	7439-96-5	930		1.8	mg/kg	1.10
RSS 3-27-03	MANGANESE	7439-96-5	890		1.8	mg/kg	
MWDEP-1B-0'-2'	MERCURY, TOTAL	7439-97-6	0.14		0.12	mg/kg	3.33
RSS 3-27-03	MERCURY, TOTAL	7439-97-6	0.16		0.12	mg/kg	
MWDEP-1B-0'-2'	NICKEL	7440-02-0	14		0.92	mg/kg	3.33
RSS 3-27-03	NICKEL	7440-02-0	16		0.92	mg/kg	
MWDEP-1B-0'-2'	POTASSIUM	7440-09-7	640		180	mg/kg	8.97
RSS 3-27-03	POTASSIUM	7440-09-7	920		180	mg/kg	
RSS 3-27-03	SELENIUM	7782-49-2	1.1		0.92	mg/kg	NA
MWDEP-1B-0'-2'	VANADIUM	7440-62-2	16		0.92	mg/kg	2.94
RSS 3-27-03	VANADIUM	7440-62-2	18		0.92	mg/kg	
MWDEP-1B-0'-2'	ZINC	7440-66-6	47		3.7	mg/kg	1.55
RSS 3-27-03	ZINC	7440-66-6	50		3.7	mg/kg	
MWDEP-3A-10'-12'	1,1,1-TRICHLOROETHANE	71-55-6	0.0024	J	6.0	mg/kg	NA
MWDEP-3A-10'-12'	2-BUTANONE	78-93-3	0.0074	J	12	mg/kg	NA
MWDEP-3A-10'-12'	ACETONE	67-64-1	0.03		12	mg/kg	12.03
RSS 3-28-03	ACETONE	67-64-1	0.049		12	mg/kg	
MWDEP-3A-10'-12'	TETRACHLOROETHENE	127-18-4	0.03		6.0	mg/kg	18.18
RSS 3-28-03	TETRACHLOROETHENE	127-18-4	0.014		6.1	mg/kg	
MWDEP-3A-10'-12'	TRICHLOROETHENE	79-01-6	0.0024	J	6.0	mg/kg	NA
MWDEP-3A-10'-12'	ALUMINUM	7429-90-5	12000		180	mg/kg	7.42
RSS 3-28-03	ALUMINUM	7429-90-5	8900		18	mg/kg	
MWDEP-3A-10'-12'	ARSENIC	7440-38-2	13		0.90	mg/kg	4.17
RSS 3-28-03	ARSENIC	7440-38-2	11		0.92	mg/kg	
MWDEP-3A-10'-12'	BARIUM	7440-39-3	68		0.18	mg/kg	4.97
RSS 3-28-03	BARIUM	7440-39-3	83		0.18	mg/kg	
MWDEP-3A-10'-12'	BERYLLIUM	7440-41-7	0.61		0.18	mg/kg	3.04
RSS 3-28-03	BERYLLIUM	7440-41-7	0.54		0.18	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
MWDEP-3A-10'-12'	CALCIUM	7440-70-2	1000		9.0	mg/kg	4.05
RSS 3-28-03	CALCIUM	7440-70-2	850		9.2	mg/kg	
MWDEP-3A-10'-12'	CHROMIUM	7440-47-3	15		0.90	mg/kg	5.56
RSS 3-28-03	CHROMIUM	7440-47-3	12		0.92	mg/kg	
MWDEP-3A-10'-12'	COBALT	7440-48-4	8.7		0.90	mg/kg	2.41
RSS 3-28-03	COBALT	7440-48-4	7.9		0.92	mg/kg	
MWDEP-3A-10'-12'	COPPER	7440-50-8	20		0.90	mg/kg	4.05
RSS 3-28-03	COPPER	7440-50-8	17		0.92	mg/kg	
MWDEP-3A-10'-12'	IRON	7439-89-6	25000		9.0	mg/kg	3.19
RSS 3-28-03	IRON	7439-89-6	22000		9.2	mg/kg	
MWDEP-3A-10'-12'	LEAD	7439-92-1	11		0.90	mg/kg	0.00
RSS 3-28-03	LEAD	7439-92-1	11		0.92	mg/kg	
MWDEP-3A-10'-12'	MAGNESIUM	7439-95-4	2300		9.0	mg/kg	4.76
RSS 3-28-03	MAGNESIUM	7439-95-4	1900		9.2	mg/kg	
MWDEP-3A-10'-12'	MANGANESE	7439-96-5	380		1.8	mg/kg	1.35
RSS 3-28-03	MANGANESE	7439-96-5	360		1.8	mg/kg	
MWDEP-3A-10'-12'	NICKEL	7440-02-0	18		0.90	mg/kg	4.55
RSS 3-28-03	NICKEL	7440-02-0	15		0.92	mg/kg	
MWDEP-3A-10'-12'	POTASSIUM	7440-09-7	1600		180	mg/kg	5.17
RSS 3-28-03	POTASSIUM	7440-09-7	1300		180	mg/kg	
MWDEP-3A-10'-12'	VANADIUM	7440-62-2	23		0.90	mg/kg	6.10
RSS 3-28-03	VANADIUM	7440-62-2	18		0.92	mg/kg	
MWDEP-3A-10'-12'	ZINC	7440-66-6	53		3.6	mg/kg	5.21
RSS 3-28-03	ZINC	7440-66-6	43		3.7	mg/kg	
MWDEP-3B-25'-27'	ACETONE	67-64-1	0.015		11	mg/kg	7.14
RSS 3-31-03	ACETONE	67-64-1	0.02		12	mg/kg	
MWDEP-3B-25'-27'	TETRACHLOROETHENE	127-18-4	0.012		5.4	mg/kg	23.91
RSS 3-31-03	TETRACHLOROETHENE	127-18-4	0.034		6.0	mg/kg	
MWDEP-3B-25'-27'	PHENANTHRENE	85-01-8	0.084	J	360	mg/kg	NA
MWDEP-3B-25'-27'	ALPHA-BHC	319-84-6	0.001	J	5.4	mg/kg	1.81
RSS 3-31-03	ALPHA-BHC	319-84-6	0.0009	J	6.0	mg/kg	
MWDEP-3B-25'-27'	BETA-BHC	319-85-7	0.0039	J	5.4	mg/kg	3.42
RSS 3-31-03	BETA-BHC	319-85-7	0.0034	J	6.0	mg/kg	
MWDEP-3B-25'-27'	ENDRIN	72-20-8	0.0008	J	11	mg/kg	NA
MWDEP-3B-25'-27'	ENDRIN KETONE	53494-70-5	0.0006	J	11	mg/kg	NA
MWDEP-3B-25'-27'	GAMMA-BHC (LINDANE)	58-89-9	0.0003	J	5.4	mg/kg	1.85
RSS 3-31-03	GAMMA-BHC (LINDANE)	58-89-9	0.0003	J	6.0	mg/kg	
MWDEP-3B-25'-27'	ALUMINUM	7429-90-5	3900		16	mg/kg	15.00
RSS 3-31-03	ALUMINUM	7429-90-5	2100		18	mg/kg	
MWDEP-3B-25'-27'	ARSENIC	7440-38-2	7.8		0.82	mg/kg	7.78
RSS 3-31-03	ARSENIC	7440-38-2	5.7		0.90	mg/kg	
MWDEP-3B-25'-27'	BARIUM	7440-39-3	36		0.16	mg/kg	4.55
RSS 3-31-03	BARIUM	7440-39-3	30		0.18	mg/kg	
MWDEP-3B-25'-27'	BERYLLIUM	7440-41-7	0.39		0.16	mg/kg	6.52
RSS 3-31-03	BERYLLIUM	7440-41-7	0.30		0.18	mg/kg	
MWDEP-3B-25'-27'	CALCIUM	7440-70-2	760		8.2	mg/kg	6.30
RSS 3-31-03	CALCIUM	7440-70-2	590		9.0	mg/kg	
MWDEP-3B-25'-27'	CHROMIUM	7440-47-3	6.6		0.82	mg/kg	8.93
RSS 3-31-03	CHROMIUM	7440-47-3	4.6		0.90	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
MWDEP-3B-25'-27'	COBALT	7440-48-4	5.8		0.82	mg/kg	4.21
RSS 3-31-03	COBALT	7440-48-4	4.9		0.90	mg/kg	
MWDEP-3B-25'-27'	COPPER	7440-50-8	9.6		0.82	mg/kg	7.52
RSS 3-31-03	COPPER	7440-50-8	13		0.90	mg/kg	
MWDEP-3B-25'-27'	IRON	7439-89-6	19000		8.2	mg/kg	5.88
RSS 3-31-03	IRON	7439-89-6	15000		9.0	mg/kg	
MWDEP-3B-25'-27'	LEAD	7439-92-1	6.9		0.82	mg/kg	0.74
RSS 3-31-03	LEAD	7439-92-1	6.7		0.90	mg/kg	
MWDEP-3B-25'-27'	MAGNESIUM	7439-95-4	900		8.2	mg/kg	8.06
RSS 3-31-03	MAGNESIUM	7439-95-4	650		9.0	mg/kg	
MWDEP-3B-25'-27'	MANGANESE	7439-96-5	460		1.6	mg/kg	2.08
RSS 3-31-03	MANGANESE	7439-96-5	500		1.8	mg/kg	
MWDEP-3B-25'-27'	NICKEL	7440-02-0	9.9		0.82	mg/kg	3.51
RSS 3-31-03	NICKEL	7440-02-0	8.6		0.90	mg/kg	
MWDEP-3B-25'-27'	POTASSIUM	7440-09-7	780		160	mg/kg	22.22
RSS 3-31-03	POTASSIUM	7440-09-7	300		180	mg/kg	
MWDEP-3B-25'-27'	VANADIUM	7440-62-2	9.9		0.82	mg/kg	11.49
RSS 3-31-03	VANADIUM	7440-62-2	6.2		0.90	mg/kg	
MWDEP-3B-25'-27'	ZINC	7440-66-6	30		3.3	mg/kg	5.56
RSS 3-31-03	ZINC	7440-66-6	24		3.6	mg/kg	
MWDEP-2B-0'-2'	ACETONE	67-64-1	0.023		12	mg/kg	6.60
RSS 4-01-03	ACETONE	67-64-1	0.03		11	mg/kg	
MWDEP-2B-0'-2'	TETRACHLOROETHENE	127-18-4	0.0041	J	6.0	mg/kg	10.95
RSS 4-01-03	TETRACHLOROETHENE	127-18-4	0.0064		5.7	mg/kg	
MWDEP-2B-0'-2'	2-METHYLNAPHTHALENE	91-57-6	0.78		380	mg/kg	10.94
RSS 4-01-03	2-METHYLNAPHTHALENE	91-57-6	0.5		380	mg/kg	
MWDEP-2B-0'-2'	DIBENZOFURAN	132-64-9	0.17	J	380	mg/kg	NA
MWDEP-2B-0'-2'	PHENANTHRENE	85-01-8	0.37	J	380	mg/kg	7.81
RSS 4-01-03	PHENANTHRENE	85-01-8	0.27	J	380	mg/kg	
MWDEP-2B-0'-2'	BENZO(A)ANTHRACENE	56-55-3	0.13	J	380	mg/kg	2.00
RSS 4-01-03	BENZO(A)ANTHRACENE	56-55-3	0.12	J	380	mg/kg	
MWDEP-2B-0'-2'	BENZO(A)PYRENE	50-32-8	0.11	J	380	mg/kg	2.38
RSS 4-01-03	BENZO(A)PYRENE	50-32-8	0.1	J	380	mg/kg	
MWDEP-2B-0'-2'	BENZO(B)FLUORANTHENE	205-99-2	0.21	J	380	mg/kg	5.26
RSS 4-01-03	BENZO(B)FLUORANTHENE	205-99-2	0.17	J	380	mg/kg	
MWDEP-2B-0'-2'	BENZO(G,H,I)PERYLENE	191-24-2	0.091	J	380	mg/kg	2.91
RSS 4-01-03	BENZO(G,H,I)PERYLENE	191-24-2	0.081	J	380	mg/kg	
MWDEP-2B-0'-2'	CHRYSENE	218-01-9	0.15	J	380	mg/kg	NA
MWDEP-2B-0'-2'	FLUORANTHENE	206-44-0	0.24	J	380	mg/kg	NA
MWDEP-2B-0'-2'	NAPHTHALENE	91-20-3	0.57		380	mg/kg	9.38
RSS 4-01-03	NAPHTHALENE	91-20-3	0.39		380	mg/kg	
MWDEP-2B-0'-2'	PYRENE	129-00-0	0.25	J	380	mg/kg	6.82
RSS 4-01-03	PYRENE	129-00-0	0.19	J	380	mg/kg	
MWDEP-2B-0'-2'	ALPHA-BHC	319-84-6	0.011		5.8	mg/kg	7.69
RSS 4-01-03	ALPHA-BHC	319-84-6	0.015		5.7	mg/kg	
MWDEP-2B-0'-2'	BETA-BHC	319-85-7	0.017		5.8	mg/kg	1.43
RSS 4-01-03	BETA-BHC	319-85-7	0.018		5.7	mg/kg	
RSS 4-01-03	DELTA-BHC	319-86-8	0.0043	J	5.7	mg/kg	NA
MWDEP-2B-0'-2'	ALUMINUM	7429-90-5	6400		17	mg/kg	5.17
RSS 4-01-03	ALUMINUM	7429-90-5	5200		17	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
MWDEP-2B-0'-2'	ARSENIC	7440-38-2	36		0.87	mg/kg	11.29
RSS 4-01-03	ARSENIC	7440-38-2	57		0.86	mg/kg	
MWDEP-2B-0'-2'	BARIUM	7440-39-3	300		0.17	mg/kg	15.52
RSS 4-01-03	BARIUM	7440-39-3	570		0.17	mg/kg	
MWDEP-2B-0'-2'	BERYLLIUM	7440-41-7	0.45		0.17	mg/kg	2.94
RSS 4-01-03	BERYLLIUM	7440-41-7	0.40		0.17	mg/kg	
RSS 4-01-03	CADMIUM	7440-43-9	0.41		0.17	mg/kg	NA
MWDEP-2B-0'-2'	CALCIUM	7440-70-2	1600		8.7	mg/kg	32.22
RSS 4-01-03	CALCIUM	7440-70-2	7400		8.6	mg/kg	
MWDEP-2B-0'-2'	CHROMIUM	7440-47-3	11		0.87	mg/kg	7.69
RSS 4-01-03	CHROMIUM	7440-47-3	15		0.86	mg/kg	
MWDEP-2B-0'-2'	COBALT	7440-48-4	6.5		0.87	mg/kg	5.08
RSS 4-01-03	COBALT	7440-48-4	5.3		0.86	mg/kg	
MWDEP-2B-0'-2'	COPPER	7440-50-8	22		0.87	mg/kg	6.86
RSS 4-01-03	COPPER	7440-50-8	29		0.86	mg/kg	
MWDEP-2B-0'-2'	CYANIDE	NL	0.076	J	0.12	mg/kg	NA
MWDEP-2B-0'-2'	IRON	7439-89-6	20000		8.7	mg/kg	8.33
RSS 4-01-03	IRON	7439-89-6	28000		8.6	mg/kg	
MWDEP-2B-0'-2'	LEAD	7439-92-1	33		0.87	mg/kg	35.20
RSS 4-01-03	LEAD	7439-92-1	190		0.86	mg/kg	
MWDEP-2B-0'-2'	MAGNESIUM	7439-95-4	1300		8.7	mg/kg	6.52
RSS 4-01-03	MAGNESIUM	7439-95-4	1000		8.6	mg/kg	
MWDEP-2B-0'-2'	MANGANESE	7439-96-5	370		1.7	mg/kg	0.68
RSS 4-01-03	MANGANESE	7439-96-5	360		1.7	mg/kg	
MWDEP-2B-0'-2'	MERCURY, TOTAL	7439-97-6	0.48		0.12	mg/kg	2.17
RSS 4-01-03	MERCURY, TOTAL	7439-97-6	0.44		0.11	mg/kg	
MWDEP-2B-0'-2'	NICKEL	7440-02-0	15		0.87	mg/kg	0.00
RSS 4-01-03	NICKEL	7440-02-0	15		0.86	mg/kg	
MWDEP-2B-0'-2'	POTASSIUM	7440-09-7	490		170	mg/kg	1.58
RSS 4-01-03	POTASSIUM	7440-09-7	460		170	mg/kg	
MWDEP-2B-0'-2'	SELENIUM	7782-49-2	1.0		0.87	mg/kg	2.38
RSS 4-01-03	SELENIUM	7782-49-2	1.1		0.86	mg/kg	
MWDEP-2B-0'-2'	VANADIUM	7440-62-2	14		0.87	mg/kg	3.33
RSS 4-01-03	VANADIUM	7440-62-2	16		0.86	mg/kg	
MWDEP-2B-0'-2'	ZINC	7440-66-6	79		3.5	mg/kg	10.30
RSS 4-01-03	ZINC	7440-66-6	120		3.4	mg/kg	
MWDEP-5A-15'-17'	1,2,4-TRICHLOROBENZENE	120-82-1	0.0035	J	6.1	mg/kg	NA
MWDEP-5A-15'-17'	1,2-DICHLOROBENZENE	95-50-1	0.038		6.1	mg/kg	7.58
RSS 4-02-03	1,2-DICHLOROBENZENE	95-50-1	0.028		6.2	mg/kg	
MWDEP-5A-15'-17'	1,4-DICHLOROBENZENE	106-46-7	0.029		6.1	mg/kg	9.18
RSS 4-02-03	1,4-DICHLOROBENZENE	106-46-7	0.02		6.2	mg/kg	
MWDEP-5A-15'-17'	ACETONE	67-64-1	0.0085	J	12	mg/kg	12.22
RSS 4-02-03	ACETONE	67-64-1	0.014		12	mg/kg	
RSS 4-02-03	BENZENE	71-43-2	0.0041	J	6.2	mg/kg	NA
MWDEP-5A-15'-17'	CHLOROBENZENE	108-90-7	0.0069		6.1	mg/kg	9.17
RSS 4-02-03	CHLOROBENZENE	108-90-7	0.01		6.2	mg/kg	
MWDEP-5A-15'-17'	TETRACHLOROETHENE	127-18-4	0.019		6.1	mg/kg	0.00
RSS 4-02-03	TETRACHLOROETHENE	127-18-4	0.019		6.2	mg/kg	
RSS 4-02-03	TRICHLOROETHENE	79-01-6	0.0026	J	6.2	mg/kg	NA

Table 9. Replicate Soil Samples Comparison
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Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
MWDEP-5A-15'-17'	ALUMINUM	7429-90-5	7000		18	mg/kg	2.05
RSS 4-02-03	ALUMINUM	7429-90-5	7600		19	mg/kg	
MWDEP-5A-15'-17'	ARSENIC	7440-38-2	4.8		0.92	mg/kg	0.52
RSS 4-02-03	ARSENIC	7440-38-2	4.9		0.93	mg/kg	
MWDEP-5A-15'-17'	BARIUM	7440-39-3	83		0.18	mg/kg	6.99
RSS 4-02-03	BARIUM	7440-39-3	110		0.19	mg/kg	
MWDEP-5A-15'-17'	BERYLLIUM	7440-41-7	0.67		0.18	mg/kg	2.14
RSS 4-02-03	BERYLLIUM	7440-41-7	0.73		0.19	mg/kg	
MWDEP-5A-15'-17'	CALCIUM	7440-70-2	400		9.2	mg/kg	22.73
RSS 4-02-03	CALCIUM	7440-70-2	150		9.3	mg/kg	
MWDEP-5A-15'-17'	CHROMIUM	7440-47-3	38		0.92	mg/kg	9.38
RSS 4-02-03	CHROMIUM	7440-47-3	26		0.93	mg/kg	
MWDEP-5A-15'-17'	COBALT	7440-48-4	6.2		0.92	mg/kg	0.82
RSS 4-02-03	COBALT	7440-48-4	6.0		0.93	mg/kg	
MWDEP-5A-15'-17'	COPPER	7440-50-8	11		0.92	mg/kg	2.38
RSS 4-02-03	COPPER	7440-50-8	10		0.93	mg/kg	
MWDEP-5A-15'-17'	IRON	7439-89-6	23000		9.2	mg/kg	0.00
RSS 4-02-03	IRON	7439-89-6	23000		9.3	mg/kg	
MWDEP-5A-15'-17'	LEAD	7439-92-1	10		0.92	mg/kg	0.00
RSS 4-02-03	LEAD	7439-92-1	10		0.93	mg/kg	
MWDEP-5A-15'-17'	MAGNESIUM	7439-95-4	1100		9.2	mg/kg	2.17
RSS 4-02-03	MAGNESIUM	7439-95-4	1200		9.3	mg/kg	
MWDEP-5A-15'-17'	MANGANESE	7439-96-5	430		1.8	mg/kg	8.11
RSS 4-02-03	MANGANESE	7439-96-5	310		1.9	mg/kg	
MWDEP-5A-15'-17'	NICKEL	7440-02-0	14		0.92	mg/kg	0.00
RSS 4-02-03	NICKEL	7440-02-0	14		0.93	mg/kg	
MWDEP-5A-15'-17'	POTASSIUM	7440-09-7	540		180	mg/kg	0.00
RSS 4-02-03	POTASSIUM	7440-09-7	540		190	mg/kg	
MWDEP-5A-15'-17'	SODIUM	7440-23-5	5300		180	mg/kg	2.68
RSS 4-02-03	SODIUM	7440-23-5	5900		190	mg/kg	
MWDEP-5A-15'-17'	VANADIUM	7440-62-2	92		0.92	mg/kg	8.56
RSS 4-02-03	VANADIUM	7440-62-2	130		0.93	mg/kg	
MWDEP-5A-15'-17'	ZINC	7440-66-6	43		3.7	mg/kg	1.69
RSS 4-02-03	ZINC	7440-66-6	46		3.7	mg/kg	
MWDEP-5B-10'-12'	1,2-DICHLOROBENZENE	95-50-1	0.031		6.0	mg/kg	17.39
RSS 4-03-03	1,2-DICHLOROBENZENE	95-50-1	0.015		5.9	mg/kg	
MWDEP-5B-10'-12'	1,4-DICHLOROBENZENE	106-46-7	0.025		6.0	mg/kg	17.57
RSS 4-03-03	1,4-DICHLOROBENZENE	106-46-7	0.012		5.9	mg/kg	
MWDEP-5B-10'-12'	ACETONE	67-64-1	0.011	J	12	mg/kg	5.56
RSS 4-03-03	ACETONE	67-64-1	0.0088	J	12	mg/kg	
MWDEP-5B-10'-12'	CHLOROBENZENE	108-90-7	0.0064		6.0	mg/kg	21.91
RSS 4-03-03	CHLOROBENZENE	108-90-7	0.0025	J	5.9	mg/kg	
MWDEP-5B-10'-12'	CIS-1,2-DICHLOROETHENE	156-59-2	0.012		6.0	mg/kg	16.67
RSS 4-03-03	CIS-1,2-DICHLOROETHENE	156-59-2	0.006		5.9	mg/kg	
MWDEP-5B-10'-12'	TETRACHLOROETHENE	127-18-4	0.0094		6.0	mg/kg	32.46
RSS 4-03-03	TETRACHLOROETHENE	127-18-4	0.002	J	5.9	mg/kg	
MWDEP-5B-10'-12'	ALUMINUM	7429-90-5	7400		18	mg/kg	3.16
RSS 4-03-03	ALUMINUM	7429-90-5	8400		18	mg/kg	
MWDEP-5B-10'-12'	ARSENIC	7440-38-2	10		0.90	mg/kg	2.38
RSS 4-03-03	ARSENIC	7440-38-2	11		0.88	mg/kg	

Table 9. Replicate Soil Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS	Result	RFlag	LOD	Units	RPD
MWDEP-5B-10'-12'	BARIUM	7440-39-3	84		0.18	mg/kg	6.70
RSS 4-03-03	BARIUM	7440-39-3	110		0.18	mg/kg	
MWDEP-5B-10'-12'	BERYLLIUM	7440-41-7	0.83		0.18	mg/kg	0.92
RSS 4-03-03	BERYLLIUM	7440-41-7	0.80		0.18	mg/kg	
MWDEP-5B-10'-12'	CALCIUM	7440-70-2	880		9.0	mg/kg	20.47
RSS 4-03-03	CALCIUM	7440-70-2	2100		8.8	mg/kg	
MWDEP-5B-10'-12'	CHROMIUM	7440-47-3	12		0.90	mg/kg	35.88
RSS 4-03-03	CHROMIUM	7440-47-3	73		0.88	mg/kg	
MWDEP-5B-10'-12'	COBALT	7440-48-4	10		0.90	mg/kg	0.00
RSS 4-03-03	COBALT	7440-48-4	10		0.88	mg/kg	
MWDEP-5B-10'-12'	COPPER	7440-50-8	14		0.90	mg/kg	4.84
RSS 4-03-03	COPPER	7440-50-8	17		0.88	mg/kg	
MWDEP-5B-10'-12'	IRON	7439-89-6	25000		9.0	mg/kg	8.33
RSS 4-03-03	IRON	7439-89-6	35000		88	mg/kg	
MWDEP-5B-10'-12'	LEAD	7439-92-1	14		0.90	mg/kg	0.00
RSS 4-03-03	LEAD	7439-92-1	14		0.88	mg/kg	
MWDEP-5B-10'-12'	MAGNESIUM	7439-95-4	1500		9.0	mg/kg	3.13
RSS 4-03-03	MAGNESIUM	7439-95-4	1700		8.8	mg/kg	
MWDEP-5B-10'-12'	MANGANESE	7439-96-5	720		1.8	mg/kg	3.33
RSS 4-03-03	MANGANESE	7439-96-5	630		1.8	mg/kg	
MWDEP-5B-10'-12'	NICKEL	7440-02-0	17		0.90	mg/kg	6.41
RSS 4-03-03	NICKEL	7440-02-0	22		0.88	mg/kg	
MWDEP-5B-10'-12'	POTASSIUM	7440-09-7	660		180	mg/kg	2.17
RSS 4-03-03	POTASSIUM	7440-09-7	720		180	mg/kg	
MWDEP-5B-10'-12'	SELENIUM	7782-49-2	0.94		0.90	mg/kg	6.07
RSS 4-03-03	SELENIUM	7782-49-2	1.2		0.88	mg/kg	
MWDEP-5B-10'-12'	SODIUM	7440-23-5	2300		180	mg/kg	9.65
RSS 4-03-03	SODIUM	7440-23-5	3400		180	mg/kg	
MWDEP-5B-10'-12'	VANADIUM	7440-62-2	49		0.90	mg/kg	45.33
RSS 4-03-03	VANADIUM	7440-62-2	1000		0.88	mg/kg	
MWDEP-5B-10'-12'	ZINC	7440-66-6	56		3.6	mg/kg	1.30
RSS 4-03-03	ZINC	7440-66-6	59		3.5	mg/kg	

Notes:

RSS = replicate soil sample
CAS = Chemical Abstract Service number
NL = CAS No. Not Listed in laboratory analytical results.
RFlag = flag designation applied to the result
J = the result was detected below the reporting limit
LOD = Level of Detection
mg/kg = milligrams per kilogram
RPD = Relative Percent Difference: (Result 1-Result 2)/((Result 1 + Result 2)/2) x 100
NA = Not Applicable

Table 10. Duplicate Groundwater Samples Comparison
Marshall Army Chemicals Plant

Sample ID	Analyte	CAS No.	Result	RFlag	LOD	Units	RPD
MWDEP-4A	1,2-DICHLOROBENZENE	95-50-1	0.0022		0.000025	mg/L	NA
MWDEP-4A	1,4-DICHLOROBENZENE	106-46-7	0.0017		0.00005	mg/L	NA
MWDEP-4A	TETRACHLOROETHENE	127-18-4	0.022		0.01	mg/L	31.58
MWDEP-D	TETRACHLOROETHENE	127-18-4	0.016		0.0005	mg/L	
MWDEP-4A	TRICHLOROETHENE	79-01-6	0.0061		0.050	mg/L	21.82
MWDEP-D	TRICHLOROETHENE	79-01-6	0.0049		0.0005	mg/L	
MWDEP-4A	BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	0.017		0.050	mg/L	16.22
MWDEP-D	BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	0.02		0.01	mg/L	
MWDEP-4A	BETA-BHC	319-85-7	0.00008		0.050	mg/L	31.58
MWDEP-D	BETA-BHC	319-85-7	0.00011		0.000025	mg/L	
MWDEP-4A	GAMMA-BHC	58-89-9	0.000033		0.050	mg/L	37.04
MWDEP-D	GAMMA-BHC	58-89-9	0.000048		0.000025	mg/L	
MWDEP-4A	ALUMINUM, DISSOLVED	7429-90-5	1.5		0.050	mg/L	NA
MWDEP-4A	BARIUM, DISSOLVED	7440-39-3	0.10		0.050	mg/L	6.19
MWDEP-D	BARIUM, DISSOLVED	7440-39-3	0.094		0.0010	mg/L	
MWDEP-4A	CALCIUM, DISSOLVED	7440-70-2	140		0.050	mg/L	7.41
MWDEP-D	CALCIUM, DISSOLVED	7440-70-2	130		0.050	mg/L	
MWDEP-4A	COPPER, DISSOLVED	7440-50-8	0.0054		0.050	mg/L	NA
MWDEP-4A	IRON, DISSOLVED	7439-89-6	2.2		0.050	mg/L	179.31
MWDEP-D	IRON, DISSOLVED	7439-89-6	0.12		0.050	mg/L	
MWDEP-4A	MAGNESIUM, DISSOLVED	7439-95-4	11		0.050	mg/L	9.52
MWDEP-D	MAGNESIUM, DISSOLVED	7439-95-4	10		0.050	mg/L	
MWDEP-4A	MANGANESE, DISSOLVED	7439-96-5	0.12		0.050	mg/L	101.89
MWDEP-D	MANGANESE, DISSOLVED	7439-96-5	0.039		0.010	mg/L	
MWDEP-4A	MERCURY, DISSOLVED	7439-97-6	0.0045		0.0050	mg/L	NA
MWDEP-4A	POTASSIUM, DISSOLVED	7440-09-7	3.0		0.0050	mg/L	14.29
MWDEP-D	POTASSIUM, DISSOLVED	7440-09-7	2.6		1.0	mg/L	
MWDEP-4A	SODIUM, DISSOLVED	7440-23-5	25		0.050	mg/L	0.00
MWDEP-D	SODIUM, DISSOLVED	7440-23-5	25		1.0	mg/L	
MWDEP-4A	ZINC, DISSOLVED	7440-66-6	0.024		0.050	mg/L	NA

Notes:

MWDEP-D = duplicate groundwater sample
CAS = Chemical Abstract Service number
RFlag = flag designation applied to the result
LOD = Level of Detection
mg/L = milligrams per liter
RPD = Relative Percent Difference: (Result 1-Result 2)/((Result 1 + Result 2)/2) x 100

Table 11. Rinse Blanks and Soil Samples Comparison
Marshall Army Chemicals Plant

Analyte	CAS	Method	Sample ID	SB-20-40'-44'			RB-1 2-24-03			SB-35-0'-4'		
			Date	2/24/2003			2/24/2003			2/25/2003		
			Time	1430			1515			0830		
			Units	mg/kg			mg/L			mg/kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
ACETONE	67-64-1	SW8260B		0.51	U	0.51	0.0017	J	0.005	0.14	U	0.14
CALCIUM, DISSOLVED	7440-70-2	SW6010B		2300		9.2	0.11		0.050	4400		9.5
COPPER, DISSOLVED	7440-50-8	SW6010B		11		0.92	0.0088		0.0050	8.4		0.95
ZINC, DISSOLVED	7440-66-6	SW6010B		35		3.7	0.020		0.020	14		3.8
Analyte	CAS	Method	Sample ID	SB-34-20'-24'			RB-1 2-25-03			SB-28-0'-4'		
			Date	2/25/2003			2/25/2003			2/26/2003		
			Time	1445			1630			0840		
			Units	mg/kg			mg/L			mg/kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
ACETONE	67-64-1	SW8260B		0.12	U	0.12	0.0015	J	0.005	0.021		0.012
CALCIUM, DISSOLVED	7440-70-2	SW6010B		990		9.2	0.080		0.050	1100		8.6
COPPER, DISSOLVED	7440-50-8	SW6010B		13		0.92	0.0053		0.0050	17		0.86
SELENIUM, DISSOLVED	7782-49-2	SW6010B		1.0		0.92	0.0057		0.0050	0.86	U	0.86
Analyte	CAS	Method	Sample ID	SB-11-0'-4'			RB-1 2-26-03			SB-11-36'-40'		
			Date	2/26/2003			2/26/2003			2/27/2003		
			Time	1510			1630			0900		
			Units	mg/kg			mg/L			mg/kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
ANTIMONY, DISSOLVED	7440-36-0	SW6010B		1.8	U	1.8	0.011		0.010	1.7	U	1.7
BARIUM, DISSOLVED	7440-39-3	SW6010B		320		0.18	0.0011		0.0010	48		0.17
CALCIUM, DISSOLVED	7440-70-2	SW6010B		1300		9.1	0.12		0.050	1000		8.4
Analyte	CAS	Method	Sample ID	SB-8-0'-2'			RB-1 2-27-03			SB-9-0'-4'		
			Date	2/27/2003			2/27/2003			2/28/2003		
			Time	1500			1630			1045		
			Units	mg/kg			mg/L			mg/kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
ANTIMONY, DISSOLVED	7440-36-0	SW6010B		1.9	U	1.9	0.012		0.010	1.9	U	1.9
BARIUM, DISSOLVED	7440-39-3	SW6010B		1400		0.19	0.0010		0.0010	680		0.19
CALCIUM, DISSOLVED	7440-70-2	SW6010B		5600		9.5	0.14		0.050	1300		9.4
Analyte	CAS	Method	Sample ID	SB-9-28'-30'			RB-1 2-28-03			SB-3-0'-4'		
			Date	2/28/2003			2/28/2003			3/3/2003		
			Time	1220			1430			1120		
			Units	mg/kg			mg/L			mg/kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
CALCIUM, DISSOLVED	7440-70-2	SW6010B		1500		8.2	0.12		0.050	650		8.4

Table 11. Rinse Blanks and Soil Samples Comparison
Marshall Army Chemicals Plant

Analyte	CAS	Method	Sample ID	SB-32-24'-28'			RB 3-5-03			SB-33-0'-4'		
			Date	3/5/2003			3/5/2003			3/6/2003		
			Time	1510			1700			0830		
			Units	mg/kg			mg/L			mg/kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
ACETONE	67-64-1	SW8260B		2.2	U	2.2	0.004	J	0.005	0.0084	J	0.014
CALCIUM, DISSOLVED	7440-70-2	SW6010B		93		9.0	0.10		0.050	2700		10
IRON, DISSOLVED	7439-89-6	SW6010B		24000		9.0	0.13		0.050	37000		10
METHYLENE CHLORIDE	75-09-2	SW8260B		2.2	U	2.2	0.0038		0.0005	0.0076	U	7.6
SODIUM, DISSOLVED	7440-23-5	SW6010B		1900		180	1.8		1.0	210	U	210
Analyte	CAS	Method	Sample ID	SB-4-40'-42'			RB 3-6-03			SB-16-0'-4'		
			Date	3/6/2003			3/6/2003			3/7/2003		
			Time	1620			1645			0830		
			Units	mg/kg			mg/L			mg/kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
ACETONE	67-64-1	SW8260B		0.009	J	0.011	0.0028	J	0.005	0.012	J	0.012
CALCIUM, DISSOLVED	7440-70-2	SW6010B		950		8.3	0.085		0.050	1400		9.0
IRON, DISSOLVED	7439-89-6	SW6010B		16000		8.3	0.13		0.050	20000		9.0
METHYLENE CHLORIDE	75-09-2	SW8260B		5.5	U	5.5	0.003		0.50	0.006	U	0.006
SODIUM, DISSOLVED	7440-23-5	SW6010B		160	U	160	2.0		1.0	180	U	180
Analyte	CAS	Method	Sample ID	SB-15-28'-30'			RB 3-7-03			SB-36-0'-2'		
			Date	3/7/2003			3/7/2003			3/10/2003		
			Time	1340			1400			0900		
			Units	mg/kg			mg/L			mg/kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
ACETONE	67-64-1	SW8260B		0.009	J	0.011	0.0032	J	0.005	0.036		13
CALCIUM, DISSOLVED	7440-70-2	SW6010B		500		8.0	0.096		0.050	3700		10
IRON, DISSOLVED	7439-89-6	SW6010B		15000		8.0	0.12		0.050	20000		10
METHYLENE CHLORIDE	75-09-2	SW8260B		0.0053	U	0.0053	0.0036		0.50	0.0067	U	0.0067
SODIUM, DISSOLVED	7440-23-5	SW6010B		160	U	160	2.0		1.0	760		200
Analyte	CAS	Method	Sample ID	SB-38-16'-20'			RB 3-10-03			SB-39-0'-4'		
			Date	3/10/2003			3/10/2003			3/11/2003		
			Time	1400			1500			0740		
			Units	mg/kg			mg/L			mg/kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
ACETONE	67-64-1	SW8260B		0.008	J	0.012	0.0028	J	0.005	0.024		0.012
CALCIUM, DISSOLVED	7440-70-2	SW6010B		910		9.4	0.24		0.050	1700		9.2
SODIUM, DISSOLVED	7440-23-5	SW6010B		190	U	190	1.0		1.0	200		180

Table 11. Rinse Blanks and Soil Samples Comparison
Marshall Army Chemicals Plant

Analyte	CAS	Method	Sample ID	SB-41-16'-20'			RB 3-11-03			SB-19-0'-4'		
			Date	3/11/2003			3/11/2003			3/12/2003		
			Time	1530			1700			0740		
			Units	mg/kg			mg/L			mg/kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
CALCIUM, DISSOLVED	7440-70-2	SW6010B		1700		9.3	0.21		0.050	200		170
Analyte	CAS	Method	Sample ID	SB-26-20'-22'			RB 3-12-03			SB-24-0'-4'		
			Date	3/12/2003			3/12/2003			3/13/2003		
			Time	1250			1700			0720		
			Units	mg/kg			mg/L			mg/kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
CALCIUM, DISSOLVED	7440-70-2	SW6010B		3500		8.0	0.21		0.050	330		9.6
Analyte	CAS	Method	Sample ID	SB-18-28'-30'			RB 3-13-03			SB-17-0'-4'		
			Date	3/13/2003			3/13/2003			3/14/2003		
			Time	1725			1800			0730		
			Units	mg/Kg			mg/L			mg/Kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
CALCIUM, DISSOLVED	7440-70-2	SW6010B		6400		8.8	0.052		0.050	10000		9.4
Analyte	CAS	Method	Sample ID	SB-17-28'-30'			RB 3-14-03			MWDEP-6B-15'-17'		
			Date	3/14/2003			3/14/2003			3/26/2003		
			Time	0920			1200			0850		
			Units	mg/kg			mg/L			mg/kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
CALCIUM, DISSOLVED	7440-70-2	SW6010B		1800		9.0	0.22		0.050	920		9.4
Analyte	CAS	Method	Sample ID	MWDEP-4B-10'-12'			RB 3-24-03			MWDEP-4A-10'-12'		
			Date	3/24/03			3/24/2003			3/25/03		
			Time	1140			1630			0815		
			Units	mg/kg			mg/L			mg/kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
CALCIUM, DISSOLVED	7440-70-2	SW6010B		82		9.1	0.12		0.050	9.2	U	9.2
Analyte	CAS	Method	Sample ID	MWDEP-6A-20'-22'			RB 3-25-03			MWDEP-6B-15'-17'		
			Date	3/25/03			3/25/2003			3/26/03		
			Time	1500			1600			0850		
			Units	mg/kg			mg/L			mg/kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
CALCIUM, DISSOLVED	7440-70-2	SW6010B		10		9.7	0.053		0.050	920		9.4

Table 11. Rinse Blanks and Soil Samples Comparison
Marshall Army Chemicals Plant

Analyte	CAS	Method	Sample ID	MWDEP-6B-25'-27'			RB 3-26-03			MWDEP-1A-10'-12'		
			Date	3/26/2003			3/26/2003			3/27/2003		
			Time	0910			1630			0755		
			Units	mg/kg			mg/L			mg/kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
ACETONE	67-64-1	SW8260B		0.027		0.013	0.0028	J	0.005	0.019		0.011
CALCIUM, DISSOLVED	7440-70-2	SW6010B		620		9.5	0.24		0.050	4000		8.4
Analyte	CAS	Method	Sample ID	MWDEP-1B-35'-37'			RB 3-27-03			MWDEP-3A-10'-12'		
			Date	3/27/2003			3/27/2003			3/28/2003		
			Time	1335			1700			0825		
			Units	mg/kg			mg/L			mg/kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
ACETONE	67-64-1	SW8260B		0.012		0.011	0.002	J	0.005	0.03		0.012
CALCIUM, DISSOLVED	7440-70-2	SW6010B		830		8.2	0.27		0.050	1000		9.0
ZINC, DISSOLVED	7440-66-6	SW6010B		25		3.3	0.020		0.020	53		3.6
Analyte	CAS	Method	Sample ID	MWDEP-3A-35'-37'			RB 3-28-03			MWDEP-3B-25'-27'		
			Date	3/28/2003			3/28/2003			3/31/2003		
			Time	0925			1400			0940		
			Units	mg/kg			mg/L			mg/kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
ACETONE	67-64-1	SW8260B		0.014		0.011	0.0022	J	5.0	0.015		0.011
CALCIUM, DISSOLVED	7440-70-2	SW6010B		15000		8.4	0.25		0.050	760		8.2
Analyte	CAS	Method	Sample ID	MWDEP-2A-40'-42'			RB 3-31-03			MWDEP-2B-0'-2'		
			Date	3/31/2003			3/31/2003			4/1/2003		
			Time	1700			1700			1700		
			Units	mg/kg			mg/L			mg/kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
ACETONE	67-64-1	SW8260B		0.86	U	0.86	0.0034	J	0.005	0.023		12
CALCIUM, DISSOLVED	7440-70-2	SW6010B		910		8.4	0.24		0.050	1600		8.7
Analyte	CAS	Method	Sample ID	MWDEP-2B-25'-27'			RB 4-01-03			MWDEP-5A-15'-17'		
			Date	4/1/2003			4/1/2003			4/2/2003		
			Time	1745			1830			1350		
			Units	mg/kg			mg/L			mg/kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
ACETONE	67-64-1	SW8260B		0.011	J	0.012	0.002	J	0.005	0.0085	J	0.012
CALCIUM, DISSOLVED	7440-70-2	SW6010B		520		8.8	0.25		0.050	400		9.2

Table 11. Rinse Blanks and Soil Samples Comparison
Marshall Army Chemicals Plant

Analyte	CAS	Method	Sample ID	MWDEP-5A-25'-27'			RB 4-02-03			MWDEP-5B-10'-12'		
			Date	4/2/2003			4/2/2003			4/3/2003		
			Time	1410			1600			0820		
			Units	mg/kg			mg/L			mg/kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
CALCIUM, DISSOLVED	7440-70-2	SW6010B		400		9.3	0.082		0.050	880		9.0
Analyte	CAS	Method	Sample ID	MWDEP-5B-20'-22'			RB 4-03-03			NONE		
			Date	4/3/2003			4/3/2003					
			Time	0840			1200					
			Units	mg/kg			mg/L			mg/kg		
				Result	RFlag	LOD	Result	RFlag	LOD	Result	RFlag	LOD
4,4-DDT	50-29-3	SW8081A		0.012	U	0.012	0.0000029	J	0.00003			
CALCIUM, DISSOLVED	7440-70-2	SW6010B		520		9.4	0.071		0.050			

Notes:

RB-# = Rinse Blank
Rflag = Result Flag = A flag designation applied to the result.
U = Parameter was not detected at or above the level of detection (LOD).
J = The result was detected below the LOD.
CAS No. = Chemical Abstract Service number
mg/kg = milligrams per kilogram
mg/L = milligrams per liter