LPC 1978090003 Will County
American Cyanamide/Joliet
SF/HRS
ILD 000 675 264
Appendix D

CERCLA

Analytical Results

Illinois Environmental
Protection Agency

EPA Region 5 Records Ctr.
288872

Table 7
Soil Analytical Results

Sample Number	ME00G8		ME00E6		ME00E7		ME00E7D		ME00E7S		ME00E8		ME00E9		ME00F0		ME00F1		ME00F2		ME00F3		ME00F4	
Sampling Location	X101		X102		X103		X103		X103		X104		X105		X106		X107		X108		X109		X110	
Matrix	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled	05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001	
Time Sampled	12 45		13 40		13 15		13 15		13 15		14 00		13 00		16 45		18 00		17 45		17 10		17 10	
%Solids	86 4		73 2		62 9		62 9		62 9		78 3		76		62 4		80 2		75 7		96 1		86 2	
Dilution Factor	1		1		1		1		1		1		1		1		1		1		1		1	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	9080	J	12700		8810		10700				7760		39100		15900		12400		17100		8310		13000	
ANTIMONY	17	J	14 3	J	3 1	J	4 4	J	88 4		13 1	J	16 7	J	8 2	J	9 2	J	18 7	J	12 6	J	23 3	J
ARSENIC	7 7	J	7 1		5 8		6 4		19 7		4 5		14 4		4		6		6 7		10 8		8 1	
BARIUM	82 4	J	178		447		444		1130		84 2		81 4		27 3		52 7		145		107		73 9	
BERYLLIUM	0 8	J	0 64		0 31	U	0 31	U	18 2		0 54		3 4		0 53		0 67		0 89		0 51		0 29	U
CADMIUM	1	J	0 27	U	0 31	U	0 31	U	16 6		0 25	U	1 3		0.7		3 7		0 49		0 74		0 94	
CALCIUM	12000	J	14900		4330		6830				7870		17800		197000		58400		3860		53800		4540	
CHROMIUM	13 6	J	12 8		4 5		5 7		75		12 2		19 1		17 9		6 8		15 1		12 8		23 1	
COBALT	7 6	J	7 6		1 6		2 5		178		6 3		6 4		5 4		4 6		8 6		8 6		2 7	
COPPER	19 1	J	19 1		5 6		6 8		94 9		18 6		66		17 6		27 9		17 6		12 4		690	
IRON	16500	J	16500		4390		5980				23500		23100		13300		12200		22500		20600		27500	
LEAD	34 3	J	49 3		109		106		116		12 2		331		50 2		97 4		19 1		17 6		166	
MAGNESIUM	7490	J	8750		1310		2890				3850		6810		85800		33000		2810		29200		2610	
MANGANESE	449	J	341		127		129		296		599		337		938		409		305		973		78 5	
MERCURY	0 06	J	0 06		0 06		0 06	U	0 76		0 06	U	0 13		0 34		0 22		0 09		0 11		0 62	
NICKEL	17 2	J	10 8	J	0 63	UJ	0 63	UJ	161	J	7 5	J	15 9	J	14 3	J	9 1	J	6 5	J	9 2	J	0 58	UJ
POTASSIUM	1630		1490		1460		1490				808		1240		586		456		959		832		1770	
SELENIUM	0 69	UJ	1 9		2 9		3		5 8		1 1		0 79	U	0 72	U	0 93		1 1		0 82		1 9	
SILVER	0 69	UJ	0 82	U	0 94	U	0 94	U	17 6		0 76	U	0 79	U	0 81		0 73	U	0 78	U	0 59	U	0 87	U
SODIUM	366	J	667	J	1730	J	1810	J			406	J	734	J	635	J	437	J	438	J	440	J	458	J
THALLIUM	1 2	J	1 4	U	1 6	U	1 6	U	15 9		1 3	U	1 3	U	1 2	U	1 2	U	1 4		0 99	U	1 6	
VANADIUM	20 8	J	24 8		23 2		23		193		18 4		26 5		23		10 3		23 4		23 5		56 9	
ZINC	223	J	46 4		13		19 1		191		46 2		163		139		4160		94 8		62 3		85	
CYANIDE	0 21	J	0 07	J	0 06	U	0 06	U	7 1		0 24	J	0 34	J	0 09	J	0 09	J	0 25	J	0 14	J	0 21	J

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Table 7
Soil Analytical Re

Sample Number	ME00C7		ME00C8		ME00C9		ME00D1		ME00D2		ME00D3		ME00D4		ME00D5		ME00D6		ME00D7		ME00F5	
Sampling Location	X111		X112		X116		X117		X118		X119		X120		X121		X122		X123		X124	
Matrix	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled	05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/08/2001	
Time Sampled	17 15		15 15		17 00		16 45		16 30		16 30		16 20		15 50		15 35		16 10		17 45	
%Solids	71 8		50 2		55 8		84 9		79 4		52.3		52 6		52 6		58 4		75 6		72 9	
Dilution Factor	1		1		1		1		1		1		1		1		1		1		1	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	3360		25400		20800		9730		9490		10500		8920		11700		16800		36100		16500	
ANTIMONY	12 3	J	5 2	J	3 1	J	19 7	J	19 5	J	7 9	J	9 3	J	13	J	4 6	J	20 3	J	17	J
ARSENIC	10 6		8		4 6		9 6		10		2		1 6		1 1	U	4 9		9 7		7 1	
BARIUM	102		361		241		52 6		53 1		65 2		119		172		293		95 9		141	
BERYLLIUM	0 28	U	0 53		0 65		0 6		0 58		0.38	U	0.37	U	0 38	U	0 61		0 82		0 81	
CADMIUM	0 28	U	0 39	U	0 35	U	0 23	U	0 25	U	0.38	U	0 37	U	0 38	U	0 34	U	0 28	U	0 48	
CALCIUM	1100		637		4250		70000		60700		2500		482		872		2130		1710		4960	
CHROMIUM	6 4		8 5		5 9		18		17 1		9 6		7		7 4		5 6		18		13 3	
COBALT	0 72		0 77	U	0 7	U	13 5		11 9		0 78	U	0 73	U	0 78	U	0 88	U	7 8		7 3	
COPPER	6 6		5 8		4 5		27 3		25 7		0 98		1 5		0 98		6 7		23		19 8	
IRON	36700		4980		4090		25400		25000		2720		2460		2250		4080		28700		31600	
LEAD	19 8		113		88 8		15 4		13 8		10 3		33 1		62		86 2		24 4		22 1	
MAGNESIUM	1000		486		2010		31900		29000		986		529		294		719		3560		2120	
MANGANESE	51 4		85 8		159		522		505		20 7		10 9		3.7		172		213		345	
MERCURY	0 08	U	0 15		0 11		0 08	U	0 08		0 19		0 09		0 13		0 08		0 08	U	0 08	
NICKEL	0 55	U	0 77	U	0 7	U	27 8	J	24 9	J	0 78	U	0 73	U	0 78	U	0 88	U	13 5	J	4	J
POTASSIUM	4680	J	3070		1040		2250		1880		413		582		1310		1480		2160		1180	
SELENIUM	1 2		4 3		3 4		0 69	U	0 74	U	1 1	U	1 8		1 1	U	2 4		1 2		1 2	
SILVER	0 83	U	1 2	U	1	U	0 69	U	0 74	U	1 1	U	1 1	U	1 1	U	1	U	0 78	U	0 82	U
SODIUM	1870	J	2070	J	1220	J	543	J	431	J	885	J	582	J	719	J	1280	J	2660	J	525	J
THALLIUM	2 8		1 9	U	1 7	U	1 2	U	1 2	U	1 9	U	1 8	U	1 9	U	1 7	U	1 5		1 9	
VANADIUM	10		41 7		32 9		20 7		19 6		56 5		40 6		44 2		28 9		30 1		21 3	
ZINC	22 5		13		13 9		70 9		74 6		9 7		6		3 6	J	12 1		66 7		107	
CYANIDE	0 07	U	0 1	U	0 09	U	0 06	U	0 09	J	0 1	U	0 1	U	0 1	U	0 09	U	0 17	J	0 23	J

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Region 5 assumes no r

Table 8
Soil Analytical Results

Sample Number	E00G8		E00G8DL		E00E6		E00E7		E00E8		E00E9		E00F0		E00F1		E00F2		E00F3		E00F4	
Sampling Location	X101		X101		X102		X103		X104		X105		X106		X107		X108		X109		X110	
Matrix	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	05/09/2001		05/09/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001	
Time Sampled	12 45		12 45		13 40		13 15		14.00		13.00		16 45		18 00		17 45		17 10		17 10	
%Moisture	12		12		25		37		31		19		15		20		24		22		34	
pH	7 4		7 4		7 4		6 5		5 6		5.4		6 9		6 3		4 2		8 3		4 7	
Dilution Factor	1		5		1		1		1		1		1		1		1		1		1	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1 9	U	9 7	U	1 5	J	2 7	U	2 5	U	2 1	U	2	U	2 1	U	2 2	U	2 2	U	2 6	U
beta-BHC	1 9	U	9 7	U	2 3	U	2 7	U	2 5	U	2 1	U	2		2 1	U	2 2	U	2 2	U	2 6	U
delta-BHC	1 9	U	9 7	U	2 3	U	2 7	U	2 5	U	2 1	U	2	U	2 1	U	2 2	U	2 2	U	2 6	U
gamma-BHC (Lindane)	1 9	U	9 7	U	2 3	U	2 7	UJ	2 5	U	2 1	U	2	U	2 1	U	2 2	U	2 2	U	2 6	U
Heptachlor	0 93	J	9 7	U	2 3	U	2 7	UJ	2 5	U	2 1	U	2	U	2 1	U	2 2	U	2 2	U	2.6	U
Aldrin	1 9	U	9 7	U	2 3	U	2 7	U	2 5	U	2 1	U	2	U	2 1	U	2 2	U	2 2	U	2 6	U
Heptachlor epoxide	1 9	U	9 7	U	2 3	U	2 5	J	2 5	U	2 1	U	2	U	2 1	U	2 2	U	2 2	U	2 6	U
Endosulfan I	1 9	U	9 7	U	2 3	U	2 7	U	2 5	U	0 89	J	0 96	J	2 1	U	2 2	U	2 2	U	2 6	U
Dieldrin	3 8	U	19	U	4 4	U	5 2	U	4 8	U	4 1	U	3 9	U	4 1	U	4 3	U	4 2	U	5	U
4,4'-DDE	3 1	J	52		4 4	U	5 2	U	4 8	U	1 5	J	9 4		4 1	U	4 3	U	4 2	U	5	U
Endrin	3 4	J	19	U	4 4	U	5 2	U	4 8	U	3 4	J	3 9	U	4 1	U	4 3	U	4 2	U	5	U
Endosulfan II	1 2	J	19	U	4 4	U	5 2	U	4.8	U	4 1	U	3 9	U	4 1	U	4 3	U	4 2	U	5	U
4,4'-DDD	2 8	J	19	U	4 4	U	5 2	U	4 8	U	4 1	U	3 9	U	4 1	U	4 3	U	4 2	U	5	U
Endosulfan sulfate	3 8	U	19	U	4 4	U	5 2	U	4.8	U	4 1	U	16		4 1	U	4 3	U	4 2	U	5	U
4,4'-DDT	130		170		4 4	U	5 2	U	4 8	U	7 5		3 9	U	4 1	U	4 3	U	4 2	U	27	
Methoxychlor	19	U	97	U	23	U	27	U	25	U	21	U	20	U	21	U	22	U	22	U	26	U
Endrin ketone	1 3	J	19	U	4 4	U	5 2	U	4 8	U	2 2	J	3 9	U	4 6		4 3	U	4 2	U	3 2	J
Endrin aldehyde	3 8	U	19	U	4 4	U	5 2	U	4 8	U	0 76	J	13		3 5	J	4 3	U	1 1	J	4 1	J
alpha-Chlordane	1 9	U	9 7	U	2 3	U	2 7	U	2 5	U	0 78	J	2	U	2 1	U	2 2	U	2 2	U	2 6	U
gamma-Chlordane	1 9		9 7	U	2 3	U	2 7	U	2 5	U	0 99	J	2	U	2 1	U	2 2	U	2 2	U	2 6	U
Toxaphene	190	U	970	U	230	U	270	U	250	U	210	U	200	U	210	U	220	U	220	U	260	U
Aroclor-1016	38	U	190	U	44	U	52	U	48	U	41	U	39	U	41	U	43	U	42	U	50	U
Aroclor-1221	76	U	380	U	89	U	110	U	97	U	83	U	79	U	84	U	88	U	86	U	100	U
Aroclor-1232	38	U	190	U	44	U	52	U	48	U	41	U	39	U	41	U	43	U	42	U	50	U
Aroclor-1242	38	U	190	U	44	U	52	U	48	U	41	U	39	U	41	U	43	U	42	U	50	U
Aroclor-1248	38	U	190	U	44	U	52	U	48	U	41	U	39	U	41	U	43	U	42	U	50	U
Aroclor-1254	38	U	190	U	17	J	52	U	48	U	41	U	960		84		10	J	42	U	50	U
Aroclor-1260	38	U	190	U	44	U	52	U	48	U	41	U	39	U	41	U	43	U	42	U	50	U

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Soil Analytical Results

Sample Number	E00C7		E00C8		E00C9		E00D1		E00D2		E00D3		E00D4		E00D5		E00D6		E00D7		E00F5	
Sampling Location	X111		X112		X116		X117		X118		X119		X120		X121		X122		X123		X124	
Matrix	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/08/2001	
Time Sampled	17 15		15 15		17 00		16 45		16 30		16 30		16 20		15 50		15 35		16 10		17 45	
%Moisture	27		50		39		15		22		50		42		46		43		24		25	
pH	3 2		3 9		3 7		7 1		7 3		3 5		4 4		3 6		4 1		4		4 1	
Dilution Factor	1		1		1		1		1		1		1		1		1		1		1	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2 3	U	3 4	U	2 8	U	2	U	2 2	U	3 4	U	2 9	U	3 2	U	3	U	2 2	U	2 3	UJ
beta-BHC	0 84	J	3 4	U	2 8	U	0 95	J	1 1	J	3 4	U	2 9	U	3 2	U	2 1	J	2 2	U	2 3	UJ
delta-BHC	2 3	U	3 4	U	2 8	U	2	U	2 2	U	3 4	U	2 9	U	3 2	U	3	U	2 2	U	2 3	UJ
gamma-BHC (Lindane)	2 3	U	3 4	U	2 8	U	2	U	2 2	U	3 4	U	2 9	U	3 2	U	3	U	2 2	U	2 3	UJ
Heptachlor	2 3	U	3 4	U	2 8	U	2	U	2 2	U	3 4	U	2 9	U	3 2	U	3	U	2 2	U	2 3	UJ
Aldrin	2 3	U	3 4	U	2 8	U	2	U	2 2	U	3 4	U	2 9	U	3 2	U	3	U	2 2	U	2 3	UJ
Heptachlor epoxide	2 3	U	3 4	U	2 8	U	2	U	2 2	U	3 4	U	2 9	U	3 2	U	3	U	2 2	U	2 3	UJ
Endosulfan I	2 3	U	3 4	U	2 8	U	2	U	2 2	U	3 4	U	2 9	U	3 2	U	3	U	2 2	U	2 3	UJ
Dieldrin	4 5	U	6 6	U	5 4	U	3 9	U	4 2	U	6 6	U	5 7	U	6 1	U	5 8	U	3 6	J	4 4	UJ
4,4'-DDE	4 5	U	6 6	U	5 4	U	3 9	U	4 2	U	6 6	U	5 7	U	6 1	U	5 8	U	4 3	U	4 4	UJ
Endrin	4 5	U	6 6	U	5 4	U	3 9	U	4 2	U	6 6	U	5 7	U	6 1	U	5 8	U	4 3	U	4 4	UJ
Endosulfan II	4 5	U	6 6	U	5 4	U	3 9	U	4 2	U	6 6	U	5 7	U	6 1	U	5 8	U	4 3	U	4 4	UJ
4,4'-DDD	4 5	U	6 6	U	5 4	U	3 9	U	4 2	U	6 6	U	5 7	U	6 1	U	5 8	U	4 3	U	4 4	UJ
Endosulfan sulfate	4 5	U	6 6	U	5 4	U	3 9	U	4 2	U	6 6	U	5 7	U	6 1	U	5 8	U	4 3	U	4 4	UJ
4,4'-DDT	4 5	U	6 6	U	5 4	U	3 9	U	4 2	U	6 6	U	5 7	U	6 1	U	5 8	U	4 3	U	4 4	UJ
Methoxychlor	23	U	34	U	28	U	20	U	22	U	34	U	29	U	31	U	30	U	22	U	23	UJ
Endrin ketone	4 5	U	6 6	U	5 4	U	3 9	U	4 2	U	6 6	U	5 7	U	6 1	U	5 8	U	4 3	U	4 4	UJ
Endrin aldehyde	4 5	U	6 6	U	5 4	U	3 9	U	4 2	U	6 6	U	5 7	U	6 1	U	5 8	U	4 3	U	4 4	UJ
alpha-Chlordane	2 3	U	3 4	U	2 8	U	2	U	2 2	U	3 4	U	2 9	U	3 2	U	3	U	2 2	U	2 3	UJ
gamma-Chlordane	2 3	U	3 4	U	2 8	U	2	U	2 2	U	3 4	U	2 9	U	3 2	U	3	U	2 2	U	2 3	UJ
Toxaphene	230	U	340	U	280	U	200	U	220	U	340	U	290	U	310	U	300	U	220	U	230	UJ
Aroclor-1016	45	U	66	U	54	U	39	U	42	U	66	U	57	U	61	U	58	U	43	U	44	UJ
Aroclor-1221	92	U	130	U	110	U	79	U	86	U	130	U	120	U	120	U	120	U	88	U	89	UJ
Aroclor-1232	45	U	66	U	54	U	39	U	42	U	66	U	57	U	61	U	58	U	43	U	44	UJ
Aroclor-1242	45	U	66	U	54	U	39	U	42	U	66	U	57	U	61	U	58	U	43	U	44	UJ
Aroclor-1248	45	U	66	U	54	U	39	U	42	U	66	U	57	U	61	U	58	U	43	U	44	UJ
Aroclor-1254	45	U	66	U	54	U	39	U	42	U	66	U	57	U	61	U	58	U	43	U	44	UJ
Aroclor-1260	45	U	66	U	54	U	39	U	42	U	66	U	57	U	61	U	58	U	43	U	44	UJ

DISCLAIMER This package
validated or approved by Reg
Region 5 assumes no respon

Table 9
Soil Analytical Results

Sample Number	E00D8		E00E6		E00E7		E00E8		E00E9		E00F0		E00F1		E00F2		E00F3		E00F4		E00C7		E00C8		E00C9		E00D1		E00D2		E00D3	
Sampling Location	X101		X102		X103		X104		X106		X108		X107		X108		X109		X110		X111		X112		X116		X117		X118		X119	
Matrix	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	06/08/2001		06/08/2001		06/08/2001		06/08/2001		06/08/2001		06/08/2001		06/08/2001		06/08/2001		06/08/2001		06/08/2001		06/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001	
Time Sampled	12 45		13 40		13 15		14 00		13 00		16 45		18 00		17 45		17 10		17 10		17 15		15 15		17 00		16 45		16 30		16 30	
%Moisture	12		25		37		31		19		15		20		24		22		34		27		50		39		15		22		50	
pH	7 4		7 4		6 6		5 8		5 4		6 9		6 3		4 2		8 3		4 7		3 2		3 9		3 7		7 1		7 3		3 6	
Dilution Factor	1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
Phenol	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
bis-(2-Chloroethyl) ether	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
2-Chlorophenol	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
2-Methylphenol	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
2,2'-oxybis(1-Chloropropane)	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
Acetophenone	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
4-Methylphenol	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
N-Nitroso-di-n-propylamine	380	UJ	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
Hexachloroethane	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
Nitrobenzene	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
Isophorone	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
2-Nitrophenol	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
2,4-Dimethylphenol	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
bis(2-Chloroethoxy)methane	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
2,4-Dichlorophenol	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
Naphthalene	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	160	J	450	U	660	U	540	U	390	U	420	U	660	U
4-Chloroaniline	380	UJ	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
Hexachlorobutadiene	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
Caprolactam	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
4-Chloro-3-methylphenol	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
2-Methylnaphthalene	380	U	440	U	520	U	480	U	410	U	390	U	410	UJ	430	UJ	420	UJ	490	J	450	U	660	U	540	U	390	U	420	U	660	U
Hexachlorocyclopentadiene	380	UJ	440	UJ	520	UJ	480	UJ	410	UJ	390	UJ	410	UJ	430	UJ	420	UJ	500	UJ	450	UJ	660	UJ	540	UJ	390	UJ	420	UJ	660	UJ
2,4,6-Trichlorophenol	380	UJ	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
2,4,5-Trichlorophenol	940	U	1100	U	1300	U	1200	U	1000	U	980	U	1000	U	1100	U	1100	U	1300	U	1100	U	1700	U	1400	U	980	U	1100	U	1700	U
1,1'-Biphenyl	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	79	J	450	U	660	U	540	U	390	U	420	U	660	U
2-Chloronaphthalene	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
2-Nitroaniline	940	U	1100	U	1300	U	1200	U	1000	U	980	U	1000	U	1100	U	1100	U	1300	U	1100	U	1700	U	1400	U	980	U	1100	U	1700	U
Dimethylphthalate	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
2,6-Dinitrotoluene	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
Acenaphthylene	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
3-Nitroaniline	940	U	1100	U	1300	U	1200	U	1000	U	980	U	1000	U	1100	U	1100	U	1300	U	1100	U	1700	U	1400	U	980	U	1100	U	1700	U
Acenaphthene	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	440	J	450	U	660	U	540	U	390	U	420	U	660	U
2,4-Dinitrophenol	940	UJ	1100	R	1300	R	1200	R	1000	R	980	R	1000	UJ	1100	UJ	1100	UJ	1300	UJ	1100	R	1700	R	1400	R	980	R	1100	R	1700	R
4-Nitrophenol	940	U	1100	U	1300	U	1200	U	1000	U	980	U	1000	U	1100	U	1100	U	1300	U	1100	U	1700	U	1400	U	980	U	1100	U	1700	U
Dibenzofuran	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	800		450	U	660	U	540	U	390	U	420	U	660	U
2,4-Dinitrotoluene	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
Diethylphthalate	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
Fluorene	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	1500		450	U	660	U	540	U	390	U	420	U	660	U
4-Chlorophenyl-phenyl ether	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
4-Nitroaniline	940	U	1100	UJ	1300	UJ	1200	UJ	1000	UJ	980	UJ	1000	UJ	1100	UJ	1100	UJ	1300	UJ	1100	UJ	1700	UJ	1400	UJ	980	UJ	1100	UJ	1700	UJ
4,6-Dinitro-2-methylphenol	940	U	1100	UJ	1300	UJ	1200	UJ	1000	UJ	980	UJ	1000	UJ	1100	UJ	1100	UJ	1300	UJ	1100	UJ	1700	UJ	1400	UJ	980	UJ	1100	UJ	1700	UJ
N-Nitrosodiphenylamine	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
4-Bromophenyl-phenylether	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
Hexachlorobenzene	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
Atrazine	380	R	440	R	520	R	480	R	410	R	390	R	410	R	430	R	420	R	500	R	450	R	660	R	540	R	390	R	420	R	660	R
Pentachlorophenol	47	J	1100	UJ	1300	UJ	1200	UJ	1000	UJ	980	UJ	1000	U	1100	U	1100	U	1300	U	1100	UJ	1700	UJ	1400	UJ	980	UJ	1100	UJ	1700	UJ
Phenanthrene	180	J	440	U	520	U	480	U	300	J	72	J	410	U	430	U	46	J	320	J	450	U	660	U	540	U	390	U	150	J	660	U
Anthracene	380	U	440	U	520	U	480	U	44	J	390	U	410	U	430	U	420	U	180	J	450	U	660	U	540	U	390	U	420	U	660	U
Carbazole	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	85	J	450	U	660	U	540	U	390	U	420	U	660	U
Di-n-butylphthalate	380	U	440	U	520	U	480	U	70	J	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
Fluoranthene	210	J	440	U	520	U	480	U	330	J	130	J	410	U	430	U	420	U	71	J	450	U	660	U	540	U	390	U	240	J	660	U
Pyrene	300	J	440	U	520	U	480	U	260	J	110	J	410	U	430	U	45	J	150	J	450	U	660	U	540	U	390	U	190	J	660	U
Butylbenzylphthalate	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
3,3'-Dichlorobenzidine	380	U	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
Benzo(a)anthracene	140	J	440	U	520	U	480	U	140	J	58	J	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	90	J	660	U
Chrysene	140	J	440	U	520	U	480	U	210	J	75	J	410	U	430	U	44	J	53	J	450	U	660	U	540	U	390	U	100	J	660	U
bis(2-Ethylhexyl)phthalate	92	J	440	U	520	U	480	U	410	U	390	U	410	U	430	U	470	U	500	U	450	U	660	U	2300		390	U	420	U	660	U
Di-n-octylphthalate	230	J	440	U	520	U	480	U	410	U	390	U	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	420	U	660	U
Benzo(b)fluoranthene	230	J	440	U	520	U	480	U	180	J	78	J	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	100	J	660	U
Benzo(k)fluoranthene	180	J	440	U	520	U	480	U	120	J	79	J	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	120	J	660	U
Benzo(a)pyrene	110	J	440	U	520	U	480	U	140	J	82	J	410	U	430	U	420	U	500	U	450	U	660	U	540	U	390	U	120	J	660	U
Indeno(1,2,3-cd)pyrene	91	J	440	UJ	520	UJ	480	UJ	110	J	72	J	410	U	430	U	420	U	500	U	450	UJ	660	UJ	540	UJ	390	UJ	110	J	660	UJ
Dibenzo(a,h)anthracene	380	U	440	UJ	520	UJ	480	UJ	88	J	390	UJ	410	U	430	U	420	U	500	U	450	UJ	660	UJ	540	UJ	390	UJ	48	J	660	UJ
Benzo(g,h,i)perylene	380	U	440	UJ	520	UJ	480	UJ	410	UJ	390	UJ	410	U	430	U	420	U	500	U	450	UJ	660	UJ	540	UJ	390	UJ	50	J	660	UJ

Table 9
Soil Analytical Results

Sample Number	E00D4		E00D5		E00D6		E00D7		E00F6	
Sampling Location	X120		X121		X122		X123		X124	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	06/07/2001		06/07/2001		06/07/2001		06/07/2001		06/08/2001	
Time Sampled	16 20		16 50		15 35		16 10		17 45	
%Moisture	42		46		43		24		25	
pH	4 4		3 8		4 1		4		4 1	
Dilution Factor	1		1		1		1		1	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	570	U	610	U	580	U	430	U	440	U
Phenol	570	U	610	U	580	U	430	U	440	U
bis-(2-Chloroethyl) ether	570	U	610	U	580	U	430	U	440	U
2-Chlorophenol	570	U	610	U	580	U	430	U	440	U
2-Methylphenol	570	U	610	U	580	U	430	U	440	U
2,2'-oxybis(1-Chloropropane)	570	U	610	U	580	U	430	U	440	U
Acetophenone	570	U	610	U	580	U	430	U	440	U
4-Methylphenol	570	U	610	U	580	U	430	U	440	U
N-Nitroso-di-n-propylamine	570	U	610	U	580	U	430	U	440	U
Hexachloroethane	570	U	610	U	580	U	430	U	440	U
Nitrobenzene	570	U	610	U	580	U	430	U	440	U
Isophorone	570	U	610	U	580	U	430	U	440	U
2-Nitrophenol	570	U	610	U	580	U	430	U	440	U
2,4-Dimethylphenol	570	U	610	U	580	U	430	U	440	U
bis(2-Chloroethoxy)methane	570	U	610	U	580	U	430	U	440	U
2,4-Dichlorophenol	570	U	610	U	580	U	430	U	440	U
Naphthalene	570	U	610	U	580	U	430	U	440	U
4-Chloroaniline	570	U	610	U	580	U	430	U	440	U
Hexachlorobutadiene	570	U	610	U	580	U	430	U	440	U
Caprolactam	570	U	610	U	580	U	430	U	440	U
4-Chloro-3-methylphenol	570	U	610	U	580	U	430	U	440	U
2-Methylnaphthalene	570	U	610	U	580	U	430	U	440	UJ
Hexachlorocyclopentadiene	570	UJ	610	UJ	580	UJ	430	UJ	440	UJ
2,4,6-Trichlorophenol	570	U	610	U	580	U	430	U	440	U
2,4,5-Trichlorophenol	1400	U	1500	U	1500	U	1100	U	1100	U
1,1'-Biphenyl	570	U	610	U	580	U	430	U	440	U
2-Chloronaphthalene	570	U	610	U	580	U	430	U	440	U
2-Nitroaniline	1400	U	1500	U	1500	U	1100	U	1100	U
Dimethylphthalate	570	U	610	U	580	U	430	U	440	U
2,6-Dinitrotoluene	570	U	610	U	580	U	430	U	440	U
Acenaphthylene	570	U	610	U	580	U	430	U	440	U
3-Nitroaniline	1400	U	1500	U	1500	U	1100	U	1100	U
Acenaphthene	570	U	610	U	580	U	430	U	440	U
2,4-Dinitrophenol	1400	R	1500	R	1500	R	1100	R	1100	UJ
4-Nitrophenol	1400	U	1500	U	1500	U	1100	U	1100	U
Dibenzofuran	570	U	610	U	580	U	430	U	440	U
2,4-Dinitrotoluene	570	U	610	U	580	U	430	U	440	U
Diethylphthalate	570	U	610	U	580	U	430	U	440	U
Fluorene	570	U	610	U	580	U	430	U	440	U
4-Chlorophenyl-phenyl ether	570	U	610	U	580	U	430	U	440	U
4-Nitroaniline	1400	UJ	1500	UJ	1500	UJ	1100	UJ	1100	UJ
4,6-Dinitro-2-methylphenol	1400	UJ	1500	UJ	1500	UJ	1100	UJ	1100	UJ
N-Nitrosodiphenylamine	570	U	610	U	580	U	430	U	440	U
4-Bromophenyl-phenylether	570	U	610	U	580	U	430	U	440	U
Hexachlorobenzene	570	U	610	U	580	U	430	U	440	U
Atrazine	570	R	610	R	580	R	430	R	440	R
Pentachlorophenol	1400	UJ	1500	UJ	1500	UJ	1100	UJ	1100	U
Phenanthrene	570	U	610	U	580	U	430	U	440	U
Anthracene	570	U	610	U	580	U	430	U	440	U
Carbazole	570	U	610	U	580	U	430	U	440	U
Di-n-butylphthalate	570	U	610	U	580	U	430	U	440	U
Fluoranthene	570	U	610	U	580	U	430	U	440	U
Pyrene	570	U	610	U	580	U	430	U	440	U
Butylbenzylphthalate	570	U	610	U	580	U	430	U	440	U
3,3'-Dichlorobenzidine	570	U	610	U	580	U	430	U	440	U
Benzo(a)anthracene	570	U	610	U	580	U	430	U	440	U
Chrysene	570	U	610	U	580	U	430	U	440	U
bis(2-Ethylhexyl)phthalate	570	U	610	U	580	U	430	U	440	U
Di-n-octylphthalate	570	U	610	U	580	U	430	U	440	U
Benzo(b)fluoranthene	570	U	610	U	580	U	430	U	440	U
Benzo(k)fluoranthene	570	U	610	U	580	U	430	U	440	U
Benzo(a)pyrene	570	U	610	U	580	U	430	U	440	U
Indeno(1,2,3-cd)pyrene	570	UJ	610	UJ	580	UJ	430	UJ	440	U
Dibenzo(a,h)anthracene	570	UJ	610	UJ	580	UJ	430	UJ	440	U
Benzo(g,h,i)perylene	570	UJ	610	UJ	580	UJ	430	UJ	440	U

Table 10
Sediment Analytical Results

Sample Number :	ME00G1D		ME00G1S		ME00G1		ME00G2		ME00G4		ME00G5		ME00G6		ME00G7	
Sampling Location :	X201		X201		X201		X202		X203		X204		X205		X206	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	05/09/2001		05/09/2001		05/09/2001		05/09/2001		05/09/2001		05/09/2001		05/09/2001		05/09/2001	
Time Sampled :	09:30		09:30		09:30		09:45		11:45		11:30		12:15		12:30	
%Solids :	78		78		78		85		61		57.6		38.4		38.9	
Dilution Factor :	1		1		1		1		1		1		1		1	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	4220	J			4590	J	1640	J	20800	J	27400	J	3920	J	6680	J
ANTIMONY	11.9	J	115	J	13.1	J	6.2	J	18	J	14.9	J	7.7	J	15.1	J
ARSENIC	6.6	J	17.9	J	7.1	J	8.8	J	11.2	J	12.9	J	3.3	J	7.1	J
BARIUM	24.5	J	585	J	27.4	J	23	J	93.1	J	93.3	J	57	J	71.8	J
BERYLLIUM	0.39	J	13	J	0.47	J	0.28	J	0.8	J	1.1	J	0.5	UJ	0.64	J
CADMIUM	0.29	J	12.8	J	0.33	J	0.24	J	0.87	J	1.4	J	0.5	UJ	0.51	UJ
CALCIUM	59500	J			66000	J	122000	J	43200	J	66900	J	80700	J	79000	J
CHROMIUM	7.6	J	63.4	J	8.2	J	4.2	J	14.8	J	15	J	6.1	J	11.2	J
COBALT	5	J	125	J	5.5	J	8.7	J	10	J	11.1	J	3.5	J	6.6	J
COPPER	14.9	J	86.2	J	17.5	J	6.9	J	32.7	J	53.2	J	9.7	J	22.2	J
IRON	11200	J			12600	J	8460	J	18600	J	17000	J	8280	J	16400	J
LEAD	9.3	J	15.4	J	10.9	J	8.8	J	51.8	J	64.1	J	14.2	J	27.5	J
MAGNESIUM	36400	J			40900	J	77500	J	14700	J	18300	J	11400	J	30900	J
MANGANESE	247	J	404	J	278	J	445	J	592	J	628	J	221	J	504	J
MERCURY	0.07	J	0.52		0.07	J	0.06	UJ	0.14	J	0.15	J	0.13	UJ	0.14	J
NICKEL	10.7	J	138	J	12	J	8	J	25.9	J	25.8	J	8.9	J	14.9	J
POTASSIUM	830				861		499		1780		1320		872		1130	
SELENIUM	0.76	UJ	2.8	J	0.76	UJ	0.7	UJ	0.95	UJ	1	UJ	1.5	UJ	1.5	UJ
SILVER	0.76	UJ	13.7	J	0.76	UJ	0.7	UJ	0.95	UJ	1	UJ	1.5	UJ	1.5	UJ
SODIUM	412	J			523	J	465	J	563	J	608	J	1030	J	891	J
THALLIUM	1.6	J	13.7	J	1.3	J	1.2	UJ	1.6	UJ	1.7	UJ	2.5	UJ	2.5	UJ
VANADIUM	11.6	J	149	J	12.9	J	10.7	J	19.8	J	19	J	8.5	J	15.8	J
ZINC	46.2	J	183	J	49.7	J	10.9	J	146	J	184	J	52.3	J	91.1	J
CYANIDE	0.06	R	0.11	J	0.06	R	0.06	J	0.51	J	0.64	J	0.21	J	0.47	J

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Table 11
Sediment Analytical Results

Sample Number :	E00G1		E00G2		E00G4		E00G5		E00G6		E00G7	
Sampling Location :	X201		X202		X203		X204		X205		X206	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	05/09/2001		05/09/2001		05/09/2001		05/09/2001		05/09/2001		05/09/2001	
Time Sampled :	09:30		09:45		11:45		11:30		12:15		12:30	
%Moisture :	6		19		50		42		74		26	
pH :	7.8		7.9		7.5		7.7		7		7.7	
Dilution Factor :	1		1		1		1		1		1	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.8	U	2.1	U	3.4	U	2.9	U	6.5	R	2.3	U
beta-BHC	1.8	U	2.6		4.3		2.9		6.5	R	1.8	J
delta-BHC	1.8	U	2.1	U	3.4	U	2.9	U	6.5	R	2.3	U
gamma-BHC (Lindane)	1.8	U	2.1	U	3.4	U	2.9	U	6.5	R	2.3	U
Heptachlor	1.8	U	2.1	U	3.4	U	2.9	U	6.5	R	2.3	U
Aldrin	1.8	U	2.1	U	3.4	U	2.9	U	6.5	R	2.3	U
Heptachlor epoxide	1.8	U	2.1	U	3.4	U	2.9	U	6.5	R	2.3	U
Endosulfan I	1.8	U	2.1	U	3.4	U	2.9	U	6.5	R	2.3	U
Dieldrin	3.5	U	4.1	U	6.6	U	5.7	U	13	R	4.5	U
4,4'-DDE	3.5	U	4.1	U	2.1	J	1.6	J	13	R	4.5	U
Endrin	3.5	U	4.1	U	6.6	U	5.7	U	13	R	4.5	U
Endosulfan II	3.5	U	4.1	U	6.6	U	5.7	U	13	R	4.5	U
4,4'-DDD	3.5	U	4.1	U	6.6	U	5.7	U	13	R	4.5	U
Endosulfan sulfate	3.5	U	4.1	U	6.6	U	5.7	U	13	R	4.5	U
4,4'-DDT	3.5	U	4.1	U	6.6	U	2.9	J	13	R	4.5	U
Methoxychlor	18	U	21	U	34	U	29	U	65	R	23	U
Endrin ketone	3.5	U	4.1	U	6.6	U	5.7	U	13	R	4.5	U
Endrin aldehyde	3.5	U	4.1	U	1.4	J	5.7	U	13	R	4.5	U
alpha-Chlordane	1.8	U	2.1	U	3.4	U	2.9	U	4.3	J	2.3	U
gamma-Chlordane	1.8	U	2.1	U	3.4	U	5.4		9.7	J	2.3	U
Toxaphene	180	U	210	U	340	U	290	U	650	R	230	U
Aroclor-1016	35	U	41	U	66	U	57	U	130	R	45	U
Aroclor-1221	71	U	83	U	130	U	120	U	260	R	91	U
Aroclor-1232	35	U	41	U	66	U	57	U	130	R	45	U
Aroclor-1242	35	U	41	U	66	U	57	U	130	R	45	U
Aroclor-1248	35	U	41	U	66	U	57	U	130	R	45	U
Aroclor-1254	35	U	41	U	66	U	57	U	130	R	45	U
Aroclor-1260	35	U	41	U	66	U	57	U	130	R	45	U

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Table 12
Soil Analytical Results

Sample Number	E00G1		E00G1MS		E00G1MSD		E00G2		E00G4		E00G5		E00G6		E00G6DL		E00G7	
Sampling Location	X201		X201		X201		X202		X203		X204		X205		X205		X206	
Matrix	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001	
Time Sampled	09 30		09 30		09 30		09 45		11 45		11 30		12 15		12 15		12 30	
%Moisture	6		6		6		18		50		42		74		74		26	
pH	7 8		7 8		7 8		7 8		7 8		7 7		7		7		7 7	
Dilution Factor	1		1		1		1		1		1		1		3		1	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
Phenol	350	U	1800		1800		410	U	680	U	570	U	2200	J	1900	J	450	U
bis (2-Chloroethyl) ether	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
2-Chlorophenol	350	U	1600		1700		410	U	680	U	570	U	1300	R	3900	R	450	U
2-Methylphenol	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
2,2'-oxybis(1-Chloropropane)	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
Acetophenone	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
4-Methylphenol	350	U	350	U	350	U	410	U	680	U	570	U	16000	J	15000	J	450	U
N-Nitroso-di-n-propylamine	350	UJ	1900	J	1300	J	410	UJ	680	UJ	570	UJ	1300	R	3900	R	450	UJ
Hexachloroethane	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
Nitrobenzene	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
Isophorone	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
2-Nitrophenol	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
2,4-Dimethylphenol	350	U	350	U	350	U	410	U	190	J	570	U	1300	R	3900	R	450	U
bis(2-Chloroethoxy)methane	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
2,4-Dichlorophenol	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
Naphthalene	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
4-Chloroaniline	350	UJ	350	UJ	350	UJ	410	UJ	680	UJ	570	UJ	1300	R	3900	R	450	UJ
Hexachlorobutadiene	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
Caprolactam	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
4-Chloro-3-methylphenol	350	U	1600		1600		410	U	680	U	570	U	1300	R	3900	R	450	U
2-Methylnaphthalene	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
Hexachlorocyclopentadiene	350	UJ	350	UJ	350	UJ	410	UJ	680	UJ	570	UJ	1300	R	3900	R	450	UJ
2,4,6-Trichlorophenol	350	UJ	350	UJ	350	UJ	410	UJ	680	UJ	570	UJ	1300	R	3900	R	450	UJ
2,4,5-Trichlorophenol	880	U	880	U	880	U	1000	U	1700	U	1400	U	3200	R	9900	R	1100	U
1,1'-Biphenyl	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
2-Chloronaphthalene	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
2-Nitroaniline	880	U	880	U	880	U	1000	U	1700	U	1400	U	3200	R	9900	R	1100	U
Dimethylphthalate	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
2,6-Dinitrotoluene	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
Acenaphthylene	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
3-Nitroaniline	880	U	880	U	880	U	1000	U	1700	U	1400	U	3200	R	9900	R	1100	U
Acenaphthene	350	U	1800		1600		410	U	680	U	570	U	1300	R	3900	R	450	U
2,4-Dinitrophenol	880	UJ	880	UJ	880	UJ	1000	UJ	1700	UJ	1400	UJ	3200	R	9900	R	1100	UJ
4-Nitrophenol	880	U	2400		2100		1000	U	1700	U	1400	U	3200	R	9900	R	1100	U
Dibenzofuran	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
2,4-Dinitrotoluene	350	UJ	1700		1500		410	U	680	U	570	U	1300	R	3900	R	450	U
Diethylphthalate	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
Fluorene	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
4-Chlorophenyl phenyl ether	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
4-Nitroaniline	880	U	880	U	880	U	1000	U	1700	U	1400	U	3200	R	9900	R	1100	U
4,6-Dinitro-2-methylphenol	880	U	880	U	880	U	1000	U	1700	U	1400	U	3200	R	9900	R	1100	U
N-Nitrosodiphenylamine	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
4-Bromophenyl phenylether	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
Hexachlorobenzene	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
Atrazine	350	R	350	R	350	R	410	R	680	R	570	R	1300	R	3900	R	450	R
Pentachlorophenol	880	U	1200		1400		1000	U	1700	U	83	J	3200	R	9900	R	1100	U
Phenanthrene	350	U	350	U	350	U	410	U	50	J	130	J	1300	R	3900	R	380	J
Anthracene	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	150	J
Carbazole	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	46	J
Di-n-butylphthalate	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
Fluoranthene	350	U	350	U	350	U	410	U	100	J	210	J	200	J	3900	R	1400	
Pyrene	350	U	1700		1600		410	U	140	J	220	J	220	J	3900	R	1500	
Butylbenzylphthalate	350	U	350	U	350	U	410	U	680	U	570	U	140	J	3900	R	450	U
3,3'-Dichlorobenzidine	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	450	U
Benzo(a)anthracene	350	U	350	U	350	U	410	U	680	U	120	J	1300	R	3900	R	920	
Chrysene	350	U	350	U	350	U	410	U	58	J	150	J	1300	R	3900	R	950	
bis(2-Ethylhexyl)phthalate	350	U	46	J	1500		340	J	370	J	80	J	600	J	680	J	480	
Di-n-octylphthalate	350	UJ	350	UJ	350	UJ	410	UJ	680	UJ	570	UJ	1300	R	3900	R	450	UJ
Benzo(b)fluoranthene	350	U	350	U	350	U	410	U	64	J	140	J	1300	R	3900	R	750	
Benzo(k)fluoranthene	350	U	350	U	350	U	410	U	680	U	100	J	1300	R	3900	R	620	
Benzo(a)pyrene	350	U	350	U	350	U	410	U	680	U	120	J	1300	R	3900	R	880	
Indeno(1,2,3-cd)pyrene	350	U	350	U	350	U	410	U	680	U	76	J	1300	R	3900	R	300	J
Dibenz(a,h)anthracene	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	190	J
Benzo(g,h,i)perylene	350	U	350	U	350	U	410	U	680	U	570	U	1300	R	3900	R	190	J

Table 13
Residential Water Samples

Sample Number	ME00C2		ME00C3		ME00C4		MEB00B7		ME00B8		ME00C5	
									Dup of G205		FB	
Matrix	Residential Water		Residential Water		Residential Water		Residential Water		Residential Water		Field Blank	
Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled	05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001	
Time Sampled	1:15 PM		12:30 PM		2:30 PM		11:50 PM		11:50 PM			
Analyte												
	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aluminum	89 7		75.2		51.5		85.5		84.8		40	U
Barium	26.3		30.6		29.2		50.4		49.5		0.5	M
Beryllium	0.3	UJ	0.3	UJ	0 3	UJ	0.3	UJ	0.3	UJ	0.3	UJ
Calcium	153000		131000		103000		130000		129000		41.3	M
Chromium	3	U	3	U	3	U	3	U	3	U	3	U
Cobalt	1	U	1	U	1	U	1	U	1	U	1	U
Copper	17.4		112		22.4		2.5	J	2.3	J	2	U
Iron	7 8	MJ	19 8	J	173	J	69 4	J	62.8	J	11	UJ
Magnesium	89900		64900		85300		69300		69000		14	J
Manganese	4 8		1.1	M	12.3		23.5		23.4		2	U
Nickel	2.8	J	3 4	J	2.3	J	3.5	J	3.6	J	2	UJ
Potassium	6300	J	5640	J	8010	J	4210	J	4250	J	464	M
Silver	1	U	1	U	1	U	1	U	1	U	1	U
Sodium	31900		37700		37400		31700		31400		395	J
Vanadium	3 9	M	9	U	4	M	5.5	M	6.7	M	6.6	M
Zinc	22 1	M	43.3		77.7		85.2		84.5		25	U
Mercury (ug/L)	0 5	U	0 5	U	0.5	U	0.5	U	0.5	U	0.5	U
Sulfate (mg/L)	266		168		239						0.025	U
Cyanide (ug/L)							8	U	8	U		

Table 14
Groundwater Samples

Sample Number	ME00E4		ME00E3		ME00E3D		ME00E3S		ME00E0		ME00G0		ME00E2		ME00G3		ME00F6		ME00F7		ME00F8		ME00F9	
Sampling Location	G101		G102		G102		G102		G104		G105		G106		G107		G108		G109		G111		G113	
Matrix	Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water	
Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled	05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/09/2001		05/08/2001		05/09/2001		05/08/2001		05/08/2001		05/08/2001		05/09/2001	
Time Sampled	15 15		12 30		12 30		12 30		09 45		08 30		11 45		10 20		15 35		17 30		17 45		08 10	
%Solids	0		0		0		0		0		0		0		0		0		0		0		0	
Dilution Factor	1		1		1		1		1		1		1		1		1		1		1		1	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	308	J	286	J	640	J	3070	J	58 3	J	572	J	554	J	2300	J	1430	J	12	UJ	12	UJ	12	UJ
ANTIMONY	6	U	6	U	6	U	555		6	U	6	U	6	U	7 1		6	U	6	U	6	U	6	U
ARSENIC	3	U	3	U	3	U	48 9		3 9		4		3	U	15		3	U	3	U	3	U	3	U
BARIUM	27 1		25 3		27 4		2170		12 5		32 8		46 3		224		74 8		40 4		26 7		1	U
BERYLLIUM	1	U	1	U	1	U	54 2		1	U	1	U	1	U	1 2		1	U	1	U	1	U	1	U
CADMIUM	1	U	1	U	1	U	53 4		1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
CALCIUM	452000		337000		336000				544000		292000		206000		469000		259000		79800		65500		8	U
CHROMIUM	7 2		2	U	2	U	219		2	U	2 1		2 2		23 4		3 7		2	U	2	U	2	U
COBALT	16 7		11 1		11 1		508		6 9		3 9		4 4		10 1		3 7		2	U	2	U	2	U
COPPER	2	U	2	U	2	U	272		9 5		2	U	2	U	2	U	2	U	2	U	2	U	2	U
IRON	5700	J	844	J	1050	J	2190	J	1610	J	1990	J	3590	J	13900	J	2650	J	196	J	239	J	37 2	J
LEAD	2	U	2	U	2	U	17 6		2	U	2	U	2	U	6		3 4		2	U	2	U	2	U
MAGNESIUM	424000		135000		136000				745000		197000		111000		280000		143000		47700		54400		40 4	J
MANGANESE	584		70 5		70 4		618		483		148		280		2760		284		61 2		28 6		1	U
MERCURY	0 1	UJ	0 1	UJ	0 1	UJ	0 75		0 1	UJ	0 1	UJ	0 1	UJ	0 1	UJ	0 1	UJ	0 1	UJ	0 1	UJ	0 1	UJ
NICKEL	10 5		11 3		11 4		541		23 6		9 5		2 9		27 6		4		2	U	2	U	2	U
POTASSIUM	28900	J	7890		8220				7330		5030		3480		24500	J	4330		13700	J	58500	J	28 1	
SELENIUM	3	U	3	U	3	U	15 2		3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U
SILVER	3	U	3	U	3	U	53 2		3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U
SODIUM	209000	J	25200	J	25300	J			55300	J	21000	J	25000	J	41500	J	27300	J	21200	J	69800	J	69 5	J
THALLIUM	5	U	5	U	5	U	59 7		6 6		5	U	5	U	5	U	5 9		5	U	5	U	5	U
VANADIUM	3	U	3	U	3	U	535		3 3		3	U	3	U	5 5		3	U	3	U	3	U	3	U
ZINC	1	U	1	U	1	U	541		1	U	1	U	1	U	854		1		1	U	40 1	J	1	U
Sulfate	1660		988						2960		785		178		64 8		585		74 9		211			

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Table 15
Groundwater Samples

Sample Number	E00E4		E00E3		E00E3MS		E00E3MSD		E00E0		E00G0		E00E2		E00G3		E00F6		E00F7		E00F8		E00F9	
Sampling Location	G101		G102		G102		G102		G104		G105		G106		G107		G108		G109		G111		G113	
Matrix	Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water	
Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled	05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/09/2001		05/08/2001		05/09/2001		05/08/2001		05/08/2001		05/08/2001		05/09/2001	
Time Sampled	15 15		12 30		12 30		12 30		09 45		08 30		11 45		10 20		15 35		17 30		17 45		08 10	
%Moisture	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
pH																								
Dilution Factor	1		1		1		1		1		1		1		1		1		1		1		1	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0.05	U
beta-BHC	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U
delta-BHC	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 027	J	0 05	U
gamma-BHC (Lindane)	0 05	U	0 05	UJ	0 05	U	0 49		0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U
Heptachlor	0 05	U	0 05	UJ	0 05	U	0.57		0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U
Aldrin	0 05	U	0 05	UJ	0 05	U	0 51		0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U
Heptachlor epoxide	0 012	J	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 01	J	0 05	U	0 05	U	0 05	U
Endosulfan I	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U
Dieldrin	0 1	U	0 1	UJ	0 1	U	1 3		0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U
4,4'-DDE	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U
Endrin	0 1	U	0 1	UJ	0 1	U	1 4		0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U
Endosulfan II	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U
4,4'-DDD	0.1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U
Endosulfan sulfate	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 071	J	0 1	U
4,4'-DDT	0 1	U	0 1	UJ	0 1	U	1 2		0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U
Methoxychlor	0 5	U	0 5	U	0 5	U	0 5	U	0 5	U	0 5	U	0 5	U	0 5	U	0 5	U	0 5	U	0 5	U	0 5	U
Endrin ketone	0 1	U	0 1	U	0 1	U	0 11		0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 031	J	0 1	U
Endrin aldehyde	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U
alpha-Chlordane	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U
gamma-Chlordane	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 009	J	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U
Toxaphene	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Aroclor-1016	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Aroclor-1221	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Aroclor-1232	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Aroclor-1242	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Aroclor-1248	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Aroclor-1254	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Aroclor-1260	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U

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Table 16
Groundwater Samples

Sample Number	E00E4		E00E3		E00E3MS		E00E3MSD		E00E0		E00G0		E00E2		E00G3		E00F6		E00F7		E00F8		E00F9	
Sampling Location	G101		G102		G102		G102		G104		G105		G108		G107		G108		G109		G111		G113	
Matrix	Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water	
Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled	05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001	
Time Sampled	15 15		12 30		12 30		12 30		09 45		08 30		11 45		10 20		15 36		17 30		17 45		08 10	
%Moisture	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
pH																								
Dilution Factor	1		1		1		1		1		1		1		1		1		1		1		1	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Phenol	10	U	10	U	60		60		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
bis-(2-Chloroethyl) ether	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Chlorophenol	10	U	10	U	48		50		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Methylphenol	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2,2'-oxybis(1-Chloropropane)	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Acetophenone	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Methylphenol	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
N-Nitroso-di-n-propylamine	10	U	10	U	46		46		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Hexachloroethane	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Nitrobenzene	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Isophorone	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Nitrophenol	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2,4-Dimethylphenol	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
bis(2-Chloroethoxy)methane	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2,4-Dichlorophenol	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Naphthalene	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Chloroaniline	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Hexachlorobutadiene	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Caprolactam	2	J	10	U	10	U	10	U	10	U	10	U	10	U	42		10	U	10	U	17		10	U
4-Chloro-3-methylphenol	10	U	10	U	86		86		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Methylnaphthalene	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Hexachlorocyclopentadiene	10	U	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
2,4,6-Trichlorophenol	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2,4,5-Trichlorophenol	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U
1,1'-Biphenyl	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Chloronaphthalene	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Nitroaniline	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U
Dimethylphthalate	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2,6-Dinitrotoluene	10	U	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Acenaphthylene	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
3-Nitroaniline	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U
Acenaphthene	10	U	10	U	45		45		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2,4-Dinitrophenol	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U
4-Nitrophenol	25	U	25	U	47		49		25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U
Dibenzofuran	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2,4-Dinitrotoluene	10	U	10	U	37		38		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Diethylphthalate	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Fluorene	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Chlorophenyl-phenyl ether	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Nitroaniline	25	U	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ
4,6-Dinitro-2-methylphenol	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U
N-Nitrosodiphenylamine	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Bromophenyl-phenylether	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Hexachlorobenzene	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Atrazine	10	R	10	R	10	R	10	R	10	R	10	R	10	R	10	R	10	R	10	R	10	R	10	R
Pentachlorophenol	25	UJ	25	UJ	94	J	100	J	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ
Phenanthrene	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Anthracene	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Carbazole	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Di-n-butylphthalate	2	J	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Fluoranthene	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Pyrene	10	U	10	UJ	35	J	45	J	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Butylbenzylphthalate	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(a)anthracene	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chrysene	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
bis(2-Ethylhexyl)phthalate	10	U	2	J	1	J	10	U	3	J	10	U	2	J	13		2	J	17		16		21	
Di-n-octylphthalate	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(b)fluoranthene	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(k)fluoranthene	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(a)pyrene	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Indeno(1,2,3-cd)pyrene	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Dibenzo(a,h)anthracene	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(g,h,i)perylene	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JUN 0 ˙ 2001

Subject: Review of Region 5 Data for **AMERICAN CYANAMIDE**

From: Francis A. Awanya , Chemist FAA
Region 5 Central Regional Laboratory

To: Bob Casper
IEPA

Attached are the results for Site: **AMERICAN CYANAMIDE**
CRL Data Set Number: **20010032**
for analyses of : **Sulfate**
Results are reported for sample numbers: **2001IE08S02, 200IE08S03, 2001IE08S04, 200IE08S05, 2001IE08S06, 200IE08S07, 2001IE08S08, 200IE08S09, 2001IE08S10, 200IE08S11, 2001IE08S12, 200IE08S13, 2001IE08R01, and 200IE08R02.**

Results Status:
(X) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

RECEIVED
JUN 1 1 2001
IEPA-BOL-FSRS

Sylvia Griffin JUN 0 7 2001

CRL Data Management Coordinator and Date Received

Date Transmitted: JUN 0 7 2001

Please have the US EPA project leader fill out the customer survey form on the Region 5 Intranet: http://www.r5intra.epa.gov/crl/qa.html, (← by clicking on this link, or call George Schupp, CRL Sample Coordinator, at 3-1226).

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments:

Data Set Number:	*20010032*	**Parameter:**	*Sulfate*
Facility Name:	*American Cyanamide*		
Study Name:	*American Cyanamide*		
Date of Narrative:	*06/06/2001*	**Analyst:**	*Francis A. Awanya*
		Signature:	FAA

ANALYSIS CASE NARRATIVE

Fourteen (14) water samples including matrix spike and duplicate samples were collected for the above study between 5/07/2001 and 5/09/2001. The samples arrived at the Central Regional Laboratory (CRL) on 5/09/2000 and 5/10/2000. Samples were checked out for sulfate analysis from the CRL sample custodian on 5/31/2001. The dates of collection, check out, and analysis are contained in Attachment I. They were transferred to the Analytical and Inorganic (A&I) laboratory section of the CRL and kept in a sample storage refrigerator until all analysis were completed. The samples were properly preserved by refrigeration.

SAMPLE ANALYSIS:

All samples were analyzed for sulfate using CRL Standard Operating Procedure (CRL.SOP) AIG045 (Method reference 300 A & B, EPA/600/R-93-100). No additional sample preparations were necessary. All samples were analyzed within the required holding time.

QUALITY CONTROL (QC):

No data quality objectives were provided by the requestor. Analysis results were evaluated using the QC requirements of CRL.SOP AIG045 (Method reference 300 A & B, EPA/600/R-93-100). All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

SAMPLE RESULTS AND REPORTING:

All the sample results are acceptable for use.

MANUAL PEAK INTEGRATION:

No manual peak integration was used to process the data.

ELECTRONIC DATA:

Electronic data are archived in;
H:\R5CRL\VOL1\MIN_NUT\FAWANYA\20010032\DX500_SYSTEM3_ED20\20010032\..under the following additional folders;
1. All_Other_Analysis, 2. Autosampler_Schedules, 3. Method_used, and 4. Reported_Run_Files. The case narrative is contained in folder 20010032.

Data Set Number:	*20010032*	**Parameter:**	*Sulfate*
Facility Name:	*American Cyanamide*		
Study Name:	*American Cyanamide*		
Date of Narrative:	*06/06/2001*	**Analyst:**	*Francis A. Awanya*
		Signature:	FAA

ANALYSIS CASE NARRATIVE

ATTACHMENT I

Date of Collection: 05/07-09/2001	**Date of Arrival:** 05/09-10/2001	**Checked-Out Date:** 05/31/2001	**Date of Analysis:** 06/01-04/2001
SAMPLE IDENTIFICATION(S):			
2001IE08S02	2001IE08S03	2001IE08S04	2001IE08R01
2001IE08S05	2001IE08S06	2001IE08S07	2001IE08S08
2001IE08S09	2001IE08S10	2001IE08S011	2001IE08S12
2001IE08S13	2001IE08R02		

ENVIRONMENTAL PROTECTION AGENCY
REGION V
CENTRAL REGIONAL LABORATORY
FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC(A&I)

DIVISION/BRANCH: WATER **SAMPLING DATE:** 05/07-09/2001 **LAB ARRIVAL DATE:** 05/09-10/01/2001 **DUE DATE:** 06/14/2001
DU NUMBER: 50102d **DATA SET NUMBER:** 20010032 **STUDY:** AMERICAN CYANAMIDE **PRIORITY:** Routine **LABORATORY :**CRL

SAMPLE #	CRL LOG NUMBER	SAMPLE DESCRIPTION	SULFATE IN WATER (mg $SO_4^{=}$/L)			
1	2001IE08S02	G201 Residential Well	266			
2	2001IE08S03	G203 Residential Well	168			
3	2001IE08S04	G204 Residential Well	239			
4	2001IE08S05	G101 Residential Well	1660			
5	2001IE08S06	G102 Residential Well	988			
6	2001IE08S07	G104 Residential Well	2960			
7	2001IE08S08	G105 Residential Well	785			
8	2001IE08S09	G106 Residential Well	178			
9	2001IE08S10	G107 Residential Well	64.8			
10	2001IE08S11	G108 Residential Well	585			
11	2001IE08S012	G109 Residential Well	74.9			
12	2001IE08S013	G111 Residential Well	211			
13	2001IE08R01	G207 Field Blank	0.025 U			
14	2001IE08R02	G207 Field Blank	0.025 U			
DATE OF ANALYSIS			06/01-04/2001			
ANALYST						

Reviewed by: FAA Date: 6/6/2001

20010032 501020

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM MINERALS-NUTRIENTS +15

DIVISION/BRANCH SUPERFUND SAMPLING DATE 5/7+9/01 LAB ARRIVAL DATE 5/9-10/01 DUE DATE 6/14/01

DU NUMBER 501020 DATASET NUMBER 2001 0032 STUDY AMERICAN CYANAMIDE PRIORITY N CONTRACTOR IEPA

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER SPECIFIC CONDUCTANCE 25C UMHOS/CM MIN73189	WATER PH PH UNITS MIN73910	WATER ALKALINITY MG CACO3/L MIN74011	WATER SULFATE MG SO4/L MIN74112	WATER CHLORIDE MG CL/L MIN74213	
001 IE08							
S02	G201 RESIDENTIAL WELL				X		5-043636 637-638
S03	G203 RESIDENTIAL WELL				X		5-043647
S04	G204 RESIDENTIAL WELL				X		5-043656
R01	G207 FIELD BLANK				X		5-043665
S05	G101 RESIDENTIAL WELL				X		5-097178
S08	G105 RESIDENTIAL WELL				X		5-097073
S10	G107 RESIDENTIAL WELL				X		5-097082
S11	G108 RESIDENTIAL WELL				X		5-097053
S12	G109 RESIDENTIAL WELL				X		5-097058
S13	G111 RESIDENTIAL WELL				X		5-097063
R02	G113 FIELD BLANK				X		5-097068
~~[illegible]~~	5/15/2001 [illegible]						5-097171-172 173
S06	G102 RESIDENTIAL WELL				X		5-043698
S07	G104 RESIDENTIAL WELL				X		5-055042
S09	G106 RESIDENTIAL WELL				X		

CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
B	This flag is used when the analyte is found in the associated ***B***lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
~~**D**~~	~~This flag is used when the analyte concentration results from a required ***D***ilution of the sample, extract or digestate.~~
~~**E**~~	~~This flag is used to identify analyte concentrations ***E***xceeding the upper calibration range of the analytical instrument after dilution of the sample, extract or digestate. The reported value is considered to be estimated~~
J	This flag is used when the analyte is estimated due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. (***J*** is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, at or above the CRL ***M***ethod Detection Limit (MDL) but below the CRL reporting limit (RL). This flag applies to all values in this concentration range and indicates the quantitated value is estimated due to its presence in this concentration range.
N	This flag applies to GC/MS Te***N***tatively Identified Compounds (TICs) that have a mass spectral library match.
Q	This flag applies to analyte data that are severely estimated due to quality control and/or ***Q***uantitation problems, but are confirmed to be qualitatively present in the sample. No value is reported with this qualification flag.
R	This flag applies to analyte data that are ***R***ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. No value is reported with this qualification flag.
U	This flag in used when the analyte was analyzed but ***U***ndetected in the sample. The CRL RL for the analyte accompanies this flag unless reporting to the CRL MDL has been requested by the customer. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.

~~4/11/00~~2/15/01

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JUN 0 4 2001

Subject: Review of Region 5 Data for American Cyanamide

From: IITRI/ESAT Chemist
Region 5 Central Regional Laboratory

To: Bob Casper
IEPA

Attached are the results for Site: American Cyanamide
CRL Data Set Number: 20010032
for analyses of : Cyanide
Results are reported for sample numbers: 2001IE08S01 and 2001IE08D01

Results Status:
(X) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

RECEIVED
JUN 0 6 2001
IEPA-BOL-FSRS

CRL Data Management Coordinator and Date Received JUN 0 4 2001 Sylvia Griffin

Date Transmitted: JUN 0 4 2001

Please have the US EPA project leader fill out the customer survey form on the Region 5 Intranet: http://www.r5intra.epa.gov/crl/qa.html, (← by clicking on this link, or call George Schupp, CRL Sample Coordinator, at 3-1226).

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments:

20010032 50102D

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: MINERALS - NUTRIENTS

DIVISION/BRANCH SUPERFUND SAMPLE DATE 5/7/2001 LAB ARRIVAL DATE 5/9/2001 DUE DATE 6/14/01

DU NUMBER 50102D DATA SET NUMBER 2001 0032 STUDY AMERICAN CYANAMIDE PRIORITY N CONTRACTOR IEPA

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER PHENOLICS UG PHENOL/L MIN 74818	WATER CYANIDE UG CN/L MIN 74919	WATER GROSS ALPHA P CI/L MIN 75020	WATER CR^{+6} UG CR^{+6}/L MIN 74816	WATER MERCURY UG HG/L MIN 74717
2001 IEU8S01	G205 RESIDENTIAL WELL 5-043595		X			
2001 IEU8D01	G206 RESIDENTIAL WELL FIELD DUP 5-043604		X			

00000003

Method: 335.2NS (CRL SOP AIG025)
Site: American Cyanamide
Date: May 16, 2001
Prepared by: Stephen Connet

TDF: 5-02-009
IITRI Job #: 246-0-1476-102-003-001
Task Order #: 05-0-02
Data Set: 20010032

NARRATIVE

Two (2) water samples from the American Cyanamide site [2001IE08S01 (G205), D01 (G206)] were collected on May 7, 2001 and were received properly preserved by CRL on May 9, 2001. The samples were assigned to ESAT for cyanide analysis.

The samples were checked with lead acetate and potassium iodide starch papers with negative results. The samples were distilled using the MIDI distillation method using the EasyStill distillation apparatus on May 16, 2001. The samples were analyzed on May 16 and 17, 2001 for cyanide using a Lachat QuickChem AE Autoanalyzer according to CRL methods. The samples were analyzed within the 14-day holding time limit.

All QC audits were in control; all sample results are acceptable. A control sample was diluted 1:1, distilled and analyzed with the sample batch for statistical purposes only; no criteria have been established for the sample and the sample is not listed as required for the analysis in the SOP. All results are reported to the ESAT reporting limit (8 ug/L).

The narrative, instrument run file, QC summary report and Results spreadsheet are stored in:
I:\r5crl\vol1\Min_nut\Sconnet\Lachat2(ESAT)\20010032\20010032_nar.wpd
I:\r5crl\vol1\Min_nut\Sconnet\Lachat2(ESAT)\20010032\2001032C.FDT
I:\r5crl\vol1\Min_nut\Sconnet\Lachat2(ESAT)\20010032\QC Summary.wpd
I:\r5crl\vol1\Min_nut\Sconnet\Lachat2(ESAT)\20010032\20010032_res.wpd

Since RLIMS was unavailable, the results are reported in a word-processing document only. Time will be necessary in the future to enter all results into RLIMS.

5.22.01

ENVIRONMENTAL PROTECTION AGENCY
REGION V
CENTRAL REGIONAL LABORATORY
FINAL RESULT REPORT FOR THE TEAM: MINERAL/NUTRIENTS

DIVISION/BRANCH: SUPERFUND **SAMPLING DATE:** 05/07/01 **LAB ARRIVAL DATE:** 05/09/01 **DUE DATE:** 06/14/01
DU NUMBER: 50102D **DATASET NUMBER:** 20010032 **STUDY:** American Cyanamide **PRIORITY:** Routine **LABORATORY :** ESAT

	CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER CYANIDE (μg/L)	FLAGS
1	2001IE08S01	G205	8	U
2	2001IE08D01	G206	8	U
	Reporting Limit	(undiluted)	8	
DATE OF ANALYSIS			5/17/01	
ANALYST		5-17-01	S. Connet	

Reviewed by: K. V. Smith Date: 5/24/01

000096

CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
B	This flag is used when the analyte is found in the associated ***B***lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
J	This flag is used when the analyte is estimated due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. (***J*** is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, with a quantity at or above the CRL ***M***ethod Detection Limit (MDL) but below the lowest concentration of the calibration curve. This flag indicates the quantitated value is estimated since it falls below the lowest calibration standard in the calibration curve.
N	This flag applies to GC/MS Te***N***tatively Identified Compounds (TICs) that have a mass spectral library match.
Q	This flag applies to analyte data that are severely estimated due to quality control and/or ***Q***uantitation problems, but are confirmed to be qualitatively present in the sample. No value is reported with this qualification flag.
R	This flag applies to analyte data that are ***R***ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. No value is reported with this qualification flag.
U	This flag in used when the analyte was analyzed for but ***U***ndetected in the sample. The CRL RL for the analyte accompanies this flag. When the customer requests CRL to report below our RL down to our MDL, undetected analytes are reported with a "U" code and the MDL. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.

03/07/01

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JUN 1 4 2001

Subject: Review of Region 5 Data for American Cyanamide Code:ZZ

From: ESAT , Chemist
Region 5 Central Regional Laboratory

To: Bob Casper
IEPA

Attached are the results for Site: American Cyanamide Code:ZZ
CRL Data Set Number: 20010032
for analyses of : Mercury
Results are reported for sample numbers: 2001IE08S01, 2001IE08D01, 2001IE08S02, 2001IE08S03, 2001IE08S04 and 2001IE08R01

Results Status:
(x) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

RECEIVED
JUN 1 8 2001
IEPA-BOL-FSRS

Sylvia Griffin JUN 1 4 2001

CRL Data Management Coordinator and Date Received

Date Transmitted: JUN 1 4 2001

Please have the US EPA project leader fill out the customer survey form on the Region 5 Intranet: http://www.r5intra.epa.gov/crl/qa.html, (← by clicking on this link, or call George Schupp, CRL Sample Coordinator, at 3-1226).

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments:

Parameter: Mercury
Method: 245.2*DNS (AIG044, dated 01/23/01)
Site: American Cyanamide
Analyst: M. Mattox M. Mattox
Date: June 11, 2001 6-11-01

Data Set: 20010032
TDF: 5-02-009
Job: 246-0-1476-102-003-001
Task Order: 05-0-02

NARRATIVE

Six (6) water samples from the American Cyanamide site (data set 20010032) were collected on May 7 and 9, 2001. The water samples are stated with the sample number and station identification as follows: 2001IE08S01 (G205), 2001IE08D01 (G206), 2001IE08S02 (G201), 2001IE08S03 (G203), 2001IE08S04 (G204), and 2001IE08R01 (G207). The samples were received by CRL on May 9 and 10, 2001. These samples were assigned to ESAT for mercury analysis. All samples were received properly preserved and analyzed within the 28 day holding time limit.

The data set was digested with extra quality control samples to check the accuracy of the standards due to past quality control problems. The data set was prepared for digestion on May 16, 2001 by adding the acid mixture, potassium permanganate, and potassium persulfate manually. The samples were covered and the autodigestion unit was then used for heating only. The hydroxylamine solution was then manually added before analysis on May 17, 2001.

All QC results were in control. All sample results are acceptable. The instrument results for this data set were originally recorded on the same results page of a previous analysis. During the report preparation the analyst attempted to delete the previous run results in order to have only the 20010032 sample results on this sheet. The computer inadvertently deleted part of this run from the results file. A hard copy of the original report is submitted with this data set.

This narrative is stored in
I:\r5crl\vol1\min_nut\mmattox\PSAMercury\Hg Water\20010032\Reports\Hg Narrative.
The spreadsheet is stored in
I:\r5crl\vol1\min_nut\mmattox\PSAMercury\Hg Water\20010032\Reports\Hg Results.
The QC summary is stored in
I:\r5crl\vol1\min_nut\mmattox\PSAMercury\Hg Water\20010032\Reports\Hg QC Summary.

At this time RLIMS is not available, therefore WordPerfect reports were generated. Time must be allotted in the future to enter the data into RLIMS when it does become available.

ENVIRONMENTAL PROTECTION AGENCY
REGION V
CENTRAL REGIONAL LABORATORY
FINAL RESULT REPORT FOR THE TEAM MINERALS-NUTRIENTS

DIVISION/BRANCH: SUPERFUND **SAMPLING DATE:** 05/07, 09/01 **LAB ARRIVAL DATE:** 05/09-10/01 **DUE DATE:** 06/14/01
DU NUMBER: 50102D **DATASET NUMBER:** 20010032 **STUDY:** American Cyanamide (Joliet, IL) **PRIORITY:** Routine **LABORATORY :** ESAT

	CRL Log Number	Sample	Mercury-Water (ug Hg/L)	Flag	
1	2001IE08S01	G205	0.5	U	
2	2001IE08D01	G206	0.5	U	
3	2001IE08S02	G201	0.5	U	
4	2001IE08S03	G203	0.5	U	
5	2001IE08S04	G204	0.5	U	
6	2001IE08R01	G207	0.5	U	
	Reporting Limit		0.5		
DATE OF ANALYSIS		6-11-01	05/17/01		
ANALYST		M. Mattox	M. Mattox		

Reviewed by: K.D. [illegible] Date: 6/13/01

000007

20010032

ENVIRONMENTAL PROTECTION AGENCY 501020
FOR THE TEAMS METALS

DIVISION/BRANCH SUPERFUND SAMPLING DATE 5/7+9/01 LAB ARRIVAL DATE 5/9-10/01 DUE DATE 6/14/01

DU NUMBER 501020 DATASET NUMBER 20010032 STUDY AMERICAN CYANAMIDO PRIORITY N CONTRACTOR EPA

CRL LOG NUMBER	SAMPLE DESCRIPTION	MATRIX WATER TEST CD UNITS UG/L PE1235826	MATRIX TEST Hg UNITS UG-HG/L PE1235826	MATRIX TEST UNITS PE1235826	MATRIX TEST UNITS PE1235826	MATRIX TEST UNITS PE1235826	
2001EOX							
S01	G205 RESIDENTIAL WELL	X	X				5-04359
D01	G206 RESIDENTIAL WELL FIELD DUP	X	X				5-04360
S02	G201 RESIDENTIAL WELL	X	X				5-04361-613-615
S03	G203 RESIDENTIAL WELL	X	X				5-04363
S04	G204 RESIDENTIAL WELL	X	X				5-04364
~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~5/15/01~~			~~[illegible]~~
R01	G207 FIELD BLANK	X	X				5-04366

V.2: 3/85

CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
B	This flag is used when the analyte is found in the associated ***B***lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
J	This flag is used when the analyte is estimated due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. (***J*** is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, with a quantity at or above the CRL ***M***ethod Detection Limit (MDL) but below the lowest concentration of the calibration curve. This flag indicates the quantitated value is estimated since it falls below the lowest calibration standard in the calibration curve.
N	This flag applies to GC/MS Te***N***tatively Identified Compounds (TICs) that have a mass spectral library match.
Q	This flag applies to analyte data that are severely estimated due to quality control and/or ***Q***uantitation problems, but are confirmed to be qualitatively present in the sample. No value is reported with this qualification flag.
R	This flag applies to analyte data that are ***R***ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. No value is reported with this qualification flag.
U	This flag in used when the analyte was analyzed for but ***U***ndetected in the sample. The CRL RL for the analyte accompanies this flag. When the customer requests CRL to report below our RL down to our MDL, undetected analytes are reported with a "U" code and the MDL. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.

03/07/01

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JUN 14 2001

Subject: Review of Region 5 Data for American Cyanamide Code:ZZ

From: ESAT, Chemist
Region 5 Central Regional Laboratory

To: Bob Casper
IEPA

Attached are the results for Site: American Cyanamide Code:ZZ
CRL Data Set Number: 20010032
for analyses of : ICP Metals
Results are reported for sample numbers: 2001IE08S01, 2001IE08D01, 2001IE08S02, 2001IE08S03, 2001IE08S04 and 2001IE08R01

Results Status:
( ) Acceptable for Use
(x) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

RECEIVED
JUN 20 2001
IEPA-BOL-FSRS

Sylvia Griffin JUN 1 4 2001

CRL Data Management Coordinator and Date Received

Date Transmitted: JUN 1 4 2001

Please have the US EPA project leader fill out the customer survey form on the Region 5 Intranet: http://www.r5intra.epa.gov/crl/qa.html, (← by clicking on this link, or call George Schupp, CRL Sample Coordinator, at 3-1226).

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments:

20010032 . 50102D

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: METALS

DIVISION/BRANCH SUPERFUND SAMPLE DATE 5/7+9/01 LAB ARRIVAL DATE 5/9-10/01 DUE DATE 6/14/01

DU NUMBER 50102D DATA SET NUMBER 2001 0032 STUDY AMERICAN CYANAMIDE PRIORITY N CONTRACTOR IEPA

CRL LOG NUMBER	SAMPLE DESCRIPTION	TOTAL METALS WATER TOTAL ICAP UG/L MET111	TOTAL METALS WATER AS UG/L MET161	TOTAL METALS WATER PB UG/L MET1191	TOTAL METALS WATER SB UG/L MET1201	TOTAL METALS WATER SE UG/L MET1211	TOTAL METALS WATER TL UG/L MET1221
2001IE08S01	G205 RESIDENTIAL WELL 5-043594	X	X	X	X	X	X
2001IE08D01	G206 RESIDENTIAL WELL FIELD DUP 5-043603	X	X	X	X	X	X
2001IE08S02	G201 RESIDENTIAL WELL TRIPLE VOLUME 5-043612-14	X	X	X	X	X	X
2001IE08S03	G203 RESIDENTIAL WELL 5-043639	X	X	X	X	X	X
2001IE08S04	G204 RESIDENTIAL WELL 5-043648	X	X	X	X	X	X
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted] 5/15/01
2001IE08R01	G207 FIELD BLANK 5-043657	X	X	X	X	X	X

000004

5-22-01

Method Number: CRL METALS 003
Date Generated: May 24,2001
Author: R.Dilg, IITRI-ESAT

Site Name: American Cyanamide
Task Order Number: 05-0-02
TDF Number: 5-02-009
Job No.: 102-003-001
Batch ID No.: 20010032
Parameter: ICP

5-24-01

ICP NARRATIVE

This narrative covers the analysis of 6 water samples from the named site sampled for ICP metals analysis.

Sample Nos.	Sample Station ID's	Sample collected	Analysis dates
2001IE08S01	G205 res well ME00B7	05-7-2001	05-18-2001
2001IE08D01	G206 res well field dup ME00B8	05-7-2001	05-18-2001
2001IE08S02	G201 res well ME00C2	05-7-2001	05-18-2001
2001IE08S03	G203 res well ME00C3	05-7-2001	05-18-2001
2001IE08S04	G204 res well ME00C4	05-7-2001	05-18-2001
2001IE08R01	G207 res well field blank ME00C5	05-7-2001	05-18-2001

The samples were received properly preserved. Routine CRL hot block (water) digestion procedures were used to prepare the water samples for ICP analysis. The digested samples were analyzed using the Optima 3300 DV ICP unit using analysis run method water_080300_m_ESAT. Optima 3300 DV ICP results were stored to file 20010032 05182001. Analyte holding times were met.

ICP RUN RESULTS

Analyte mdl's determined in the summer of 2000 and rl values calculated from that information for ESAT analysis work for the Optima 3300 DV were used. The calculated rl values were used in reporting sample analysis results for this data case.

An ambiguously stated flag in SOP HK005 is the "B" flag. Although a "more than 10 times" rule was mentioned for blanks for considering data as useable, it was not clearly stated whether or not the "B" flag should be used. As a matter of fact, to this analyst, from reading the wording used in the SOP the flow or intent seems to imply (but is not specifically stated to do so) to always use the "B" flag regardless of the sample level if a control audit blank is above an MDL level ! This analyst used the "B" flag for those analyte cases where the MDL value was exceeded but the 10 times value was not exceeded.

Also, to better help understand the use of the "B" flag, let it be pointed out to the data user that the "B" flag is by definition a warning flag only. For estimated data, an additional flag (either an "M" or a "J" flag) is used to denote that the flagged result is in fact estimated.

Analysis RUN 1278 - Optima 3300 DV

29 to 31 analyte lines out of a possible 78 lines available using the Optima 3300 DV method were chosen by a plan agreed upon by Dr. J. V. Morris. These are to be used for routine reporting of analyte values that appear in the QA summary reports.

The following analytes will either not be addressed or only minimally mentioned in this case narrative:

Sn, Tl, As, Se, Sb, Mo, Pb, Cd, B, Ti, Y, Sr, Li

Two sets of QA / QC summary reports are provided for this deliverable. The first is the traditional set based on "default" QA/ QC limits. The second set is based on control chart (historical / statistically) determined QA/ QC limits. The formats used for the second set are new and may be subject to change for use with future data sets.

The following lists the case pertinent out-of-control QC audit check results based on default QA / QC (traditional) limits:

RUN 1278 :

Blanks:	Instr blk 1:	Be313	- 0.31	µg/L
		Co228	- 0.55	"
		V 310	4.1	"
	Digest blk 1:	Ag328	- 0.52	µg/L
		Be 313	- 0.17	"
		Cu327	0.71	"
		K766	267	"
		Na588.9	71.7	"
		V 310	5.98	"
	Instr blk 2:	Be313	- 0.99	"
		Co228	- 0.32	"
		K766	260	"
		Na588.9	122	"
LCM's:	LCM1 :	Ag328	- 41.61	% deviation
		Co228	15.7	"
	LCM1 (2):	Ag328	- 42.75	% "
		Fe273	*	
		Mg279	11.7	"

* alternate analytes lines used to monitor these audits

6-6-01

RL check Soln: RL 1:
(See paragraph below regarding rl's)
RL 2:

Presently no "control" actions are associated with the observed RL analyte values actually determined during the analysis run. RL check solution values currently are being analyzed for purposes of generating a benchmark set of values which can be used to monitor the appropriateness of any given RL level of analyte concentration.

Laboratory duplicate:	2001IE08S02:	Ni231	- 5.29	µg/L dupl difference
		Fe259	- 64.6	"

Matrix spikes: 2001IE08S02 K766 121.2 %R

The following lists the case pertinent out-of-control QC audit check results based on control chart QA / QC (historical) limits. Only those analytes not already previously affected by default QA/ QC limits (see above) will be listed here:

To date, sufficient data exists to compile control chart information for only some of the instrument check audits (LCM1, LCM2, and Hi AQC) from Optima analysis runs. Too little data is currently available for other QA audits.

Hi AQC's:	Hi AQC (1):	K766	> 3X action limit
	Hi AQC (2):	K766	> 3X action limit

Also for the Hi AQC QA check audit recent changes in the solution used (Zn is no longer an added constituent) resulted in the "hits" noted on the QA summary sheet for the Hi AQC audit results. LCM1 Zn audit values will be used for monitoring the quality of the instrument response values for Zn.

Sample analyte qualifications:

Default QA/ QC limits for the digestion blank and instrument blank audits will be used for qualifying sample results. Control chart QA / QC limits and/or default limits for other QA/QC audit checks will be used to qualify sample results. In general, the "tighter" limits (either default or control chart) will be used to qualify any given sample analyte result.

As, Sb, Cd, Pb, Se, and Tl sample results were not reported by ICP; see GFAA results for these analytes.

The ICP sample results reported for the remaining analytes are usable except as noted in the following paragraphs.

For Ba, the sample result for 2001IE08R01 was flagged "M" since it had a result between the MDL and the rl value and it is estimated because of this.

XL 5-24-01

Analysis RUN 1278 - Optima 3300 DV (continued)

For Be, all sample results were flagged "J" due to possible negative bias indicated by the magnitude of the raw negative values obtained.

For Ca, the sample result for 2001IE08R01 was flagged "M" since it had a result between the MDL and the rl value and it is estimated because of this.

For Cu, the sample results for 2001IE08S01 and D01 were flagged "B" indicating they may have been affected by possible contamination indicated by blank analysis data. These same sample results were also flagged "J" indicating possible high bias due to the blank contamination just noted and are estimated.

For Fe, the sample result for 2001IE08S02 was flagged "M" since it had a result between the MDL and the rl value. All sample results are flagged "J" since the laboratory duplicate audit results exceeded control limits and are estimated.

For Mg, the sample result for 2001IE06R01 is flagged "J" due to possible high bias from the Mg AQC check audit results.

For Mn, the sample result for 2001IE08S03 was flagged "M" since it had a result between the MDL and the rl value and it is estimated because of this.

For K, the sample result for 2001IE06R01 was flagged "M" since it had a result between the MDL and the rl value. The same sample result was flagged "B" indicating it may have been affected by possible contamination indicated by blank analysis data. All K results are flagged "J" and they are estimated due to possible high bias indicated by the Hi AQC check audit results and by matrix spike recovery results.

For Na, the sample result for 2001IE06R01 was flagged "B" indicating it may have been affected by possible contamination indicated by blank analysis data. The same sample result was flagged "J" indicating possible high bias due to the blank contamination just noted and is estimated.

For Ni, all sample results are flagged "J" since the laboratory duplicate audit results exceeded control limits and are estimated.

For V, all sample results except for 2001IE08S03 were flagged "M" since they had a result between the MDL and the rl value and they are estimated because of this. These same sample results are also flagged "B" indicating they may have been affected by possible contamination indicated by blank analysis data.

For Zn, the sample result for 2001IE08S02 was flagged "M" since it had a result between the MDL and the rl value and it is estimated because of this.

Small levels of Ba, Mg, K, Na, and V were found in sample 2001IE08R01. Analysis of the undigested sample also showed similarly small levels thus indicating minimal laboratory contribution for these analytes in sample 2001IE08R01.

Samples 2001IE08S01 and D01 were designated as field duplicates and their sample results exhibit good correlation.

5-24-01

R5CRL Files

The following pathways were used for storing analysis information to the R5CRL file server for the this data set:

Optima 3300 DV results:

(Vol 3 on 'R5crl')[H:] \metals \Rdilg \20010032 \Icp \Optima 3300DV \Methods_ESAT
(Vol 3 on 'R5crl')[H:] \metals \Rdilg \20010032 \Icp \Optima 3300DV \narrative
(Vol 3 on 'R5crl')[H:] \metals \Rdilg \20010032 \Icp \Optima 3300DV \Results_ESAT
(Vol 3 on 'R5crl')[H:] \metals \Rdilg \20010032 \Icp \Optima 3300DV \SIFs_ESAT
(Vol 3 on 'R5crl')[H:] \metals \Rdilg \20010032 \Icp \Optima 3300DV \SS processed data

CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
B	This flag is used when the analyte is found in the associated ***B***lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
J	This flag is used when the analyte is estimated due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. (***J*** is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, with a quantity at or above the CRL ***M***ethod Detection Limit (MDL) but below the lowest concentration of the calibration curve. This flag indicates the quantitated value is estimated since it falls below the lowest calibration standard in the calibration curve.
N	This flag applies to GC/MS Te***N***tatively Identified Compounds (TICs) that have a mass spectral library match.
Q	This flag applies to analyte data that are severely estimated due to quality control and/or ***Q***uantitation problems, but are confirmed to be qualitatively present in the sample. No value is reported with this qualification flag.
R	This flag applies to analyte data that are ***R***ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. No value is reported with this qualification flag.
U	This flag in used when the analyte was analyzed for but ***U***ndetected in the sample. The CRL RL for the analyte accompanies this flag. When the customer requests CRL to report below our RL down to our MDL, undetected analytes are reported with a "U" code and the MDL. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.

03/07/01

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 22-May-01

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 20010032

LABORATORY: REGION 5 CRL

SAMPLE FACILITY: American Cyanamide

SAMPLE: 2001IE08S01

ANALYZED: 18-May-01

STATION: G205 res well MEB00B7

COMPOUND	AMOUNT				(Units)
Aluminum	85.8				(ug/L)
Barium	50.4				(ug/L)
Beryllium	0.3	U		J	(ug/L)
Calcium	130000				(ug/L)
Chromium	3	U			(ug/L)
Cobalt	1	U			(ug/L)
Copper	2.5		B	J	(ug/L)
Iron	69.4			J	(ug/L)
Magnesium	69300				(ug/L)
Manganese	23.5				(ug/L)
Nickel	3.5			J	(ug/L)
Potassium	4210			J	(ug/L)
Silver	1	U			(ug/L)
Sodium	31700				(ug/L)
Vanadium	5.5	M	B		(ug/L)
Zinc	85.2				(ug/L)

ANALYZED BY: 5-24-01

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 22-May-01

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 20010032

LABORATORY: REGION 5 CRL

SAMPLE FACILITY: American Cyanamide

SAMPLE: 2001IE08D01

ANALYZED: 18-May-01

STATION: G206 fd dup ME00B8

COMPOUND	AMOUNT				(Units)
Aluminum	84.8				(ug/L)
Barium	49.5				(ug/L)
Beryllium	0.3	U		J	(ug/L)
Calcium	129000				(ug/L)
Chromium	3	U			(ug/L)
Cobalt	1	U			(ug/L)
Copper	2.3		B	J	(ug/L)
Iron	62.8			J	(ug/L)
Magnesium	69000				(ug/L)
Manganese	23.4				(ug/L)
Nickel	3.6			J	(ug/L)
Potassium	4250			J	(ug/L)
Silver	1	U			(ug/L)
Sodium	31400				(ug/L)
Vanadium	6.7	M	B		(ug/L)
Zinc	84.5				(ug/L)

ANALYZED BY: 5-24-01

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 22-May-01

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 20010032

LABORATORY: REGION 5 CRL

SAMPLE FACILITY: American Cyanamide

SAMPLE: 2001IE08S02

ANALYZED: 18-May-01

STATION: G201 res well ME00C2

COMPOUND	AMOUNT			(Units)
Aluminum	89.7			(ug/L)
Barium	26.3			(ug/L)
Beryllium	0.3	U	J	(ug/L)
Calcium	153000			(ug/L)
Chromium	3	U		(ug/L)
Cobalt	1	U		(ug/L)
Copper	17.4			(ug/L)
Iron	7.8	M	J	(ug/L)
Magnesium	89900			(ug/L)
Manganese	4.8			(ug/L)
Nickel	2.8		J	(ug/L)
Potassium	6300		J	(ug/L)
Silver	1	U		(ug/L)
Sodium	31900			(ug/L)
Vanadium	3.9	M	B	(ug/L)
Zinc	22.1	M		(ug/L)

ANALYZED BY: RD 5-24-01

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 22-May-01

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 20010032

LABORATORY: REGION 5 CRL

SAMPLE FACILITY: American Cyanamide

SAMPLE: 2001IE08S03

ANALYZED: 18-May-01

STATION: G203 res well ME00C3

COMPOUND	AMOUNT			(Units)
Aluminum	75.2			(ug/L)
Barium	30.6			(ug/L)
Beryllium	0.3	U	J	(ug/L)
Calcium	131000			(ug/L)
Chromium	3	U		(ug/L)
Cobalt	1	U		(ug/L)
Copper	112			(ug/L)
Iron	19.8		J	(ug/L)
Magnesium	64900			(ug/L)
Manganese	1.1	M		(ug/L)
Nickel	3.4		J	(ug/L)
Potassium	5640		J	(ug/L)
Silver	1	U		(ug/L)
Sodium	37700			(ug/L)
Vanadium	9	U		(ug/L)
Zinc	43.3			(ug/L)

ANALYZED BY: RD 5-24-01

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 22-May-01

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 20010032

LABORATORY: REGION 5 CRL

SAMPLE FACILITY: American Cyanamide

SAMPLE: 2001IE08S04

ANALYZED: 18-May-01

STATION: G204 res well ME00C4

COMPOUND	AMOUNT			(Units)
Aluminum	51.5			(ug/L)
Barium	29.2			(ug/L)
Beryllium	0.3	U	J	(ug/L)
Calcium	103000			(ug/L)
Chromium	3	U		(ug/L)
Cobalt	1	U		(ug/L)
Copper	22.4			(ug/L)
Iron	173		J	(ug/L)
Magnesium	85300			(ug/L)
Manganese	12.3			(ug/L)
Nickel	2.3		J	(ug/L)
Potassium	8010		J	(ug/L)
Silver	1	U		(ug/L)
Sodium	37400			(ug/L)
Vanadium	4	M	B	(ug/L)
Zinc	77.7			(ug/L)

ANALYZED BY: RD 5-24-01

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 22-May-01

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 20010032

LABORATORY: REGION 5 CRL

SAMPLE FACILITY: American Cyanamide

SAMPLE: 2001IE08R01

ANALYZED: 18-May-01

STATION: G207 fd blank ME00C5

COMPOUND	AMOUNT				(Units)
Aluminum	40	U			(ug/L)
Barium	0.5	M			(ug/L)
Beryllium	0.3	U		J	(ug/L)
Calcium	41.3	M			(ug/L)
Chromium	3	U			(ug/L)
Cobalt	1	U			(ug/L)
Copper	2	U			(ug/L)
Iron	11	U		J	(ug/L)
Magnesium	14			J	(ug/L)
Manganese	2	U			(ug/L)
Nickel	2	U		J	(ug/L)
Potassium	484	M	B		(ug/L)
Silver	1	U			(ug/L)
Sodium	395		B	J	(ug/L)
Vanadium	6.6	M	B		(ug/L)
Zinc	25	U			(ug/L)

ANALYZED BY: RD 5-24-01

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 22-May-01

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 20010032

LABORATORY: REGION 5 CRL

SAMPLE FACILITY: American Cyanamide

SAMPLE: 2001IE08S01

ANALYZED: 18-May-01

STATION: G205 res well MEB00B7

COMPOUND	AMOUNT				(Units)
Aluminum	85.8				(ug/L)
Barium	50.4				(ug/L)
Beryllium	0.3	U		J	(ug/L)
Calcium	130000				(ug/L)
Chromium	3	U			(ug/L)
Cobalt	1	U			(ug/L)
Copper	2.5		B	J	(ug/L)
Iron	69.4			J	(ug/L)
Magnesium	69300				(ug/L)
Manganese	23.5				(ug/L)
Nickel	3.5			J	(ug/L)
Potassium	4210			J	(ug/L)
Silver	1	U			(ug/L)
Sodium	31700				(ug/L)
Vanadium	5.5	M	B		(ug/L)
Zinc	85.2				(ug/L)

ANALYZED BY: 5-24-01

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 22-May-01

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 20010032

LABORATORY: REGION 5 CRL

SAMPLE FACILITY: American Cyanamide

SAMPLE: 2001IE08D01

ANALYZED: 18-May-01

STATION: G206 fd dup ME00B8

COMPOUND	AMOUNT				(Units)
Aluminum	84.8				(ug/L)
Barium	49.5				(ug/L)
Beryllium	0.3	U		J	(ug/L)
Calcium	129000				(ug/L)
Chromium	3	U			(ug/L)
Cobalt	1	U			(ug/L)
Copper	2.3		B	J	(ug/L)
Iron	62.8			J	(ug/L)
Magnesium	69000				(ug/L)
Manganese	23.4				(ug/L)
Nickel	3.6			J	(ug/L)
Potassium	4250			J	(ug/L)
Silver	1	U			(ug/L)
Sodium	31400				(ug/L)
Vanadium	6.7	M	B		(ug/L)
Zinc	84.5				(ug/L)

ANALYZED BY: 5-24-01

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 22-May-01

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 20010032

LABORATORY: REGION 5 CRL

SAMPLE FACILITY: American Cyanamide

SAMPLE: 2001IE08S02 .

ANALYZED: 18-May-01

STATION: G201 res well ME00C2

COMPOUND	AMOUNT				(Units)
Aluminum	89.7				(ug/L)
Barium	26.3				(ug/L)
Beryllium	0.3	U		J	(ug/L)
Calcium	153000				(ug/L)
Chromium	3	U			(ug/L)
Cobalt	1	U			(ug/L)
Copper	17.4				(ug/L)
Iron	7.8	M		J	(ug/L)
Magnesium	89900				(ug/L)
Manganese	4.8				(ug/L)
Nickel	2.8			J	(ug/L)
Potassium	6300			J	(ug/L)
Silver	1	U			(ug/L)
Sodium	31900				(ug/L)
Vanadium	3.9	M	B		(ug/L)
Zinc	22.1	M			(ug/L)

ANALYZED BY: 5-24-01

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 22-May-01

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 20010032

LABORATORY: REGION 5 CRL

SAMPLE FACILITY: American Cyanamide

SAMPLE: 2001IE08S03

ANALYZED: 18-May-01

STATION: G203 res well ME00C3

COMPOUND	AMOUNT			(Units)
Aluminum	75.2			(ug/L)
Barium	30.6			(ug/L)
Beryllium	0.3	U	J	(ug/L)
Calcium	131000			(ug/L)
Chromium	3	U		(ug/L)
Cobalt	1	U		(ug/L)
Copper	112			(ug/L)
Iron	19.8		J	(ug/L)
Magnesium	64900			(ug/L)
Manganese	1.1	M		(ug/L)
Nickel	3.4		J	(ug/L)
Potassium	5640		J	(ug/L)
Silver	1	U		(ug/L)
Sodium	37700			(ug/L)
Vanadium	9	U		(ug/L)
Zinc	43.3			(ug/L)

ANALYZED BY: 5-24-01

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 22-May-01

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 20010032

LABORATORY: REGION 5 CRL

SAMPLE FACILITY: American Cyanamide

SAMPLE: 2001IE08S04

ANALYZED: 18-May-01

STATION: G204 res well ME00C4

COMPOUND	AMOUNT			(Units)
Aluminum	51.5			(ug/L)
Barium	29.2			(ug/L)
Beryllium	0.3	U	J	(ug/L)
Calcium	103000			(ug/L)
Chromium	3	U		(ug/L)
Cobalt	1	U		(ug/L)
Copper	22.4			(ug/L)
Iron	173		J	(ug/L)
Magnesium	85300			(ug/L)
Manganese	12.3			(ug/L)
Nickel	2.3		J	(ug/L)
Potassium	8010		J	(ug/L)
Silver	1	U		(ug/L)
Sodium	37400			(ug/L)
Vanadium	4	M	B	(ug/L)
Zinc	77.7			(ug/L)

ANALYZED BY: 5-24-01

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 22-May-01

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 20010032

LABORATORY: REGION 5 CRL

SAMPLE FACILITY: American Cyanamide

SAMPLE: 2001IE08R01

ANALYZED: 18-May-01

STATION: G207 fd blank ME00C5

COMPOUND	AMOUNT				(Units)
Aluminum	40	U			(ug/L)
Barium	0.5	M			(ug/L)
Beryllium	0.3	U		J	(ug/L)
Calcium	41.3	M			(ug/L)
Chromium	3	U			(ug/L)
Cobalt	1	U			(ug/L)
Copper	2	U			(ug/L)
Iron	11	U		J	(ug/L)
Magnesium	14			J	(ug/L)
Manganese	2	U			(ug/L)
Nickel	2	U		J	(ug/L)
Potassium	484	M	B		(ug/L)
Silver	1	U			(ug/L)
Sodium	395		B	J	(ug/L)
Vanadium	6.6	M	B		(ug/L)
Zinc	25	U			(ug/L)

ANALYZED BY: 5-24-01

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JUN 14 2001

Subject: Review of Region 5 Data for American Cyanamide Code:ZZ

From: ESAT, Chemist
Region 5 Central Regional Laboratory

To: Bob Casper
IEPA

Attached are the results for Site: American Cyanamide Code:ZZ
CRL Data Set Number: 20010032
for analyses of : Antimony, Arsenic, Cadmium, Lead, Selenium and Thallium
Results are reported for sample numbers: 2001IE08S01, 2001IE08D01, 2001IE08S02, 2001IE08S03, 2001IE08S04 and 2001IE08R01

Results Status:
(x) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

RECEIVED
JUN 18 2001
IEPA-BOL-FSRS

Sylvia Griffin JUN 1 4 2001

CRL Data Management Coordinator and Date Received

JUN 1 4 2001

Date Transmitted: _____

Please have the US EPA project leader fill out the customer survey form on the Region 5 Intranet: http://www.r5intra.epa.gov/crl/qa.html, (← by clicking on this link, or call George Schupp, CRL Sample Coordinator, at 3-1226).

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

_____

Received by and Date

Comments:

Method: GFAA for Water
Site: American Cyanamide
Date: May 22, 2001
Prepared by: Stephen Connet

TDF: 5-02-009
IITRI Job #: 246-0-1476-102-003-001
Task Order #: 05-0-02
Data Set: 20010032

NARRATIVE

Six (6) water samples for the American Cyanamide site [2001IE08S01 (G205), D01 (G206), S02 (G201), S03 (G203), S04 (G204), R01 (FB)] were collected on May 7 and 9, 2001 and received properly preserved by CRL on May 9 and 10, 2001. The samples were submitted to ESAT for analysis of antimony, arsenic, cadmium, lead, selenium, and thallium by GFAA.

The samples were digested following standard CRL 200.2 hot block water digestion protocols (CRL SOP METALS025) on May 17, 2001 (digestion batch 1278). Analyses were performed using 200.9 methods on the SIMAA 6000 (CRL SOP METALS017) using multi-element programs. Analysis of some thallium samples was performed using the single element program due to interference problems encountered while running the antimony/thallium program.

Samples S01 and D01 appear to be field duplicates for which no qualifications are made. All QC were within limits; all sample results are acceptable. All samples were analyzed within the holding time limit.

Non-detect results are reported to the reporting limit (RL). Results between the method detection limit (MDL) and the RL are reported as the instrument value with an "M" flag. Interferences in S01, D01, S02 and S03 arsenic, D01, S03 and S04 selenium and S02 and S03 thallium analyses resulted in dilutions; where appropriate, reported values are dilution corrected.

Analytical results and summaries were stored in the following database files:
H:\r5crl\vol3\metals\sconnet\20010032\6000-AsSe\051801 for arsenic and selenium,
H:\r5crl\vol3\metals\sconnet\20010032\6000-CdPb\052101 for cadmium and lead,
H:\r5crl\vol3\metals\sconnet\20010032\6000-SbTl\052101B for antimony and thallium,
H:\r5crl\vol3\metals\sconnet\20010032\6000-Tl\052201 for thallium.

This narrative and the Results/QC Summary spreadsheet are stored in:
H:\r5crl\vol3\metals\sconnet\20010032\Reports\GFAA Narrative.wpd
H:\r5crl\vol3\metals\sconnet\20010032\Reports\QCReport.123

Since RLIMS was unavailable, the AA metals analysis results are reported in a Lotus spreadsheet only. Time will be necessary in the future to enter all analysis results into RLIMS.

6-22-01

ENVIRONMENTAL PROTECTION AGENCY
REGION V
CENTRAL REGIONAL LABORATORY
FINAL RESULT REPORT FOR THE TEAM: METALS

DIVISION/BRANCH:	SUPERFUND	STUDY:	AMERICAN CYANAMIDE	SAMPLING DATE:	05/07, 09/01
DU NUMBER:	50102D	PRIORITY:	ROUTINE	LAB ARRIVAL DATE:	05/09-10/01
DATASET NUMBER:	20010032	LABORATORY:	ESAT	DUE DATE:	06/14/01

	CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER Antimony (ug/L)	WATER Arsenic (ug/L)	WATER Cadmium (ug/L)	WATER Lead (ug/L)	WATER Selenium (ug/L)	WATER Thallium (ug/L)
1	2001IE08S01	G205 ME00B7	4 U	4 U	0.3 U	2 U	4 U	2 U
2	2001IE08D01	G206 ME00B8	4 U	4 U	0.3 U	2 U	8 U	2 U
3	2001IE08S02	G201 ME00C2	4 U	4 U	0.3 U	0.5 M	4 U	4 U
4	2001IE08S03	G203 ME00C3	4 U	4 U	0.3 U	2 U	8 U	4 U
5	2001IE08S04	G204 ME00C4	4 U	2 U	0.1 M	0.7 M	16 U	2 U
6	2001IE08R01	G207 ME00C5	4 U	2 U	0.3 U	2 U	4 U	2 U
	(UNDILUTED)	Reporting Limit	4	2	0.3	2	4	2
DATE OF ANALYSIS			5/21/01	5/18/01	5/21/01	5/21/01	5/18/01	5/21-22/01
ANALYST		5-30-01	S. Connet	S. Connet	S. Connet	S. Connet	S. Connet	S. Connet

Reviewed By: K.V. [illegible] JCL Date: 5/30/01

000007

2001 0032 501020

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: METALS

DIVISION/BRANCH SUPERFUND SAMPLE DATE 5/7+9/01 LAB ARRIVAL DATE 5/9-10/01 DUE DATE 6/14/01

DU NUMBER 501020 DATA SET NUMBER 2001 0032 STUDY AMERICAN CYANAMIDE PRIORITY N CONTRACTOR IEPA

CRL LOG NUMBER	SAMPLE DESCRIPTION	TOTAL METALS WATER TOTAL ICAP UG/L MET111		TOTAL METALS WATER AS UG/L MET181	TOTAL METALS WATER PB UG/L MET1191	TOTAL METALS WATER SB UG/L MET1201	TOTAL METALS WATER SE UG/L MET1211	TOTAL METALS WATER TL UG/L MET1221
2001IE08S01	G205 RESIDENTIAL WELL 5-043594	X	ME00B7	X	X	X	X	X
2001IE08D01	G206 RESIDENTIAL WELL FIELD DUP 5-043603	X	ME00B8	X	X	X	X	X
2001IE08S02	G201 RESIDENTIAL WELL TRIPLE VOLUME 5-043612-14	X	ME00C2	X	X	X	X	X
2001IE08S03	G203 RESIDENTIAL WELL 5-043639	X	ME00C3	X	X	X	X	X
2001IE08S04	G204 RESIDENTIAL WELL 5-043648	X	ME00C4	X	X	X	X	X
[redacted]	G109 RESIDENTIAL WELL 5-[illegible]	X		X	X	X	X	X 5/15/01
2001IE08R01	G207 FIELD BLANK 5-043657	X	ME00C5	X	X	X	X	X
			5-30-01					

000003

20010032 501020

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: METALS

DIVISION/BRANCH: SUPERFUND SAMPLING DATE: 5/7+9/01 LAB ARRIVAL DATE: 5/9-10/01 DUE DATE: 6/14/01

DU NUMBER: 501020 DATASET NUMBER: 2001 0032 STUDY: AMERICAN CYANAMID PRIORITY: N CONTRACTOR: EBPA

CRL LOG NUMBER	SAMPLE DESCRIPTION	MATRIX: WATER TEST: CD UNITS: UG/L PE1235826	MATRIX: WATER TEST: Hg UNITS: UG-HG/L PE1235826	MATRIX: TEST: UNITS: PE1235826	MATRIX: TEST: UNITS: PE1235826	MATRIX: TEST: UNITS: PE1235826	
2001E018							5-043594
S01	G205 RESIDENTIAL WELL	X	X				5-043603
D01	G206 RESIDENTIAL WELL FIELD DUP	X	X				5-043612-613-614
S02	G201 RESIDENTIAL WELL	X	X				5-043639
S03	G203 RESIDENTIAL WELL	X	X				5-043648
S04	G204 RESIDENTIAL WELL	X	X				~~[illegible]~~
~~[illegible]~~	~~G202 RESIDENTIAL WELL~~	~~X~~	~~X~~	5/15/01			5-043657
R01	G207 FIELD BLANK	X	X				

*CRL 4: 3/85

CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
B	This flag is used when the analyte is found in the associated ***B***lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
J	This flag is used when the analyte is estimated due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. (***J*** is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, with a quantity at or above the CRL ***M***ethod Detection Limit (MDL) but below the lowest concentration of the calibration curve. This flag indicates the quantitated value is estimated since it falls below the lowest calibration standard in the calibration curve.
N	This flag applies to GC/MS Te***N***tatively Identified Compounds (TICs) that have a mass spectral library match.
Q	This flag applies to analyte data that are severely estimated due to quality control and/or ***Q***uantitation problems, but are confirmed to be qualitatively present in the sample. No value is reported with this qualification flag.
R	This flag applies to analyte data that are ***R***ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. No value is reported with this qualification flag.
U	This flag in used when the analyte was analyzed for but ***U***ndetected in the sample. The CRL RL for the analyte accompanies this flag. When the customer requests CRL to report below our RL down to our MDL, undetected analytes are reported with a "U" code and the MDL. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.

03/07/01

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: June 29, 2001

SUBJECT: Review of Data
Received for Review on June 20, 2001

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

The data in this case has not been validated.
We have compiled the CADRE files into a narrative format for the following case:

SITE NAME: American Cyanamide

CASE NUMBER: 29241 SDG NUMBER: ME00E0

Number and Type of Samples: 10 waters

Sample Numbers: ME00E0,2-4; ME00F6-9; ME00G0,3

Laboratory: AATS Hrs. for Review: 2

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

Case Number : 29241
Site Name: American Cyanamide

SDG Number: ME00E0
Laboratory: AATS

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

NUMBER (##) MATRIX samples numbered ##, were collected on DATE. The lab received the samples on DATE in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using CLP SOW ILM04.1 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure.

Assembled By: ESAT
Date: June 29, 2001

Case Number : 29241
Site Name: American Cyanamide

SDG Number: ME00E0
Laboratory: AATS

1. HOLDING TIME:

Holding Time Report

SDG NO: ME00E0

HOLDING TIME CRITERIA

Inorganic

	-- Holding Time --		------- pH -------	
	Primary	Expanded	Primary	Expanded
Metals	180	0	2.0	0.0
Mercury	28	0	2.0	0.0
Cyanide	14	0	12.0	0.0

No problems found for this qualification.

2. CALIBRATIONS:

Calibration Report

SDG NO: ME00E0

CALIBRATION CRITERIA

Inorganic

Percent Recovery Limits

	--- Primary ---		-- Expanded ---	
	Low	High	Low	High
Cyanide	85.00	115.00	70.00	130.00
AA	90.00	110.00	75.00	125.00
ICP	90.00	110.00	75.00	125.00
Mercury	80.00	120.00	65.00	135.00

No problems found for this qualification.

CRDL Standards Report

SDG NO: ME00E0

Assembled By: ESAT
Date: June 29, 2001

Case Number : 29241
Site Name: American Cyanamide

SDG Number: ME00E0
Laboratory: AATS

DC-373: The following inorganic samples are associated with a CRDL standard with low percent recovery.

Lead
ME00E0, ME00E2, ME00E3, ME00E4, ME00F6, ME00F7
ME00F8, ME00F9, ME00G0, ME00G3, PBW02

Selenium
ME00E0, ME00E3, ME00E4, ME00F8

DC-374: The following inorganic samples are associated with a CRDL standard with high percent recovery.
Hits and non-detects are flagged .

Nickel
ME00E3

Selenium
ME00E0, ME00E2, ME00E3, ME00E4, ME00F6, ME00F7
ME00F8, ME00F9, ME00G0, ME00G3, PBW02

Thallium
ME00E0, ME00E2, ME00E3, ME00E4, ME00F6, ME00F7
ME00F8, ME00F9, ME00G0, ME00G3, PBW02

3. BLANKS:

Laboratory Blanks Report

SDG NO: ME00E0

LABORATORY BLANKS CRITERIA

DC-284: The following inorganic samples are associated with a blank concentration which is greater than the instrument detection limit (IDL). The sample concentration is also greater than the IDL and less than five times the blank concentration. Hits are qualified "J"; non-detects are not flagged.

Aluminum
ME00E0

Iron
ME00F9

Magnesium
ME00F9

Zinc
ME00F8

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

Assembled By: ESAT
Date: June 29, 2001

Case Number : 29241
Site Name: American Cyanamide

SDG Number: ME00E0
Laboratory: AATS

Matrix Spike Report

SDG NO: ME00E0

MATRIX SPIKE CRITERIA

Inorganic

Percent Recovery Limits

Upper	125.0
Lower	75.0
Extreme lower	30.0

DC-267: The following inorganic samples are associated with a matrix spike recovery which is high (>125%)
Hits are qualified "J" and non-detects are not flagged.

Aluminum
ME00E0, ME00E2, ME00E3, ME00E3A, ME00E3D, ME00E4
ME00F6, ME00G0, ME00G3

Iron
ME00E0, ME00E2, ME00E3, ME00E3A, ME00E3D, ME00E4
ME00F6, ME00F7, ME00F8, ME00F9, ME00G0, ME00G3

Selenium
ME00E3A

DC-268: The following inorganic samples are associated with a matrix spike recovery which is low (30-74 %) indicating that sample results may be biased low.
Hits are qualified "J" and non-detects are qualified "UJ".

Mercury
ME00E0, ME00E2, ME00E3, ME00E3D, ME00E4, ME00F6
ME00F7, ME00F8, ME00F9, ME00G0, ME00G3

DC-270: The following inorganic samples are not qualified for matrix spikes due to missing information.
Manual review of the data is required.

Calcium
ME00E0, ME00E2, ME00E3, ME00E3D, ME00E4, ME00F6
ME00F7, ME00F8, ME00F9, ME00G0, ME00G3

Magnesium
ME00E0, ME00E2, ME00E3, ME00E3D, ME00E4, ME00F6
ME00F7, ME00F8, ME00F9, ME00G0, ME00G3

LCS Report

SDG NO: ME00E0

Assembled By: ESAT
Date: June 29, 2001

Case Number : 29241
Site Name: American Cyanamide

SDG Number: ME00E0
Laboratory: AATS

No problems found for this qualification.

5. LABORATORY AND FIELD DUPLICATE

Duplicates Report

SDG NO: ME00E0

DC-256: The following inorganic samples are associated with duplicate results which did not meet relative percent difference (RPD) criteria.
Hits are qualified "J" and non-detects are qualified "UJ".

Iron
ME00E0, ME00E2, ME00E3, ME00E3S, ME00E4, ME00F6
ME00F7, ME00F8, ME00F9, ME00G0, ME00G3

DC-330: The following inorganic samples are associated with duplicate results which did not meet absolute difference criteria.
Hits are qualified "J" and non-detects are qualified "UJ".

Aluminum
ME00E0, ME00E2, ME00E3, ME00E3S, ME00E4, ME00F6
ME00F7, ME00F8, ME00F9, ME00G0, ME00G3

6. ICP ANALYSIS

ICS Report

SDG NO: ME00E0

DC-307: The following inorganic samples have no associated ICS analyses.
Manual review of the data is required.

ME00E0
Aluminum, Calcium, Iron

ME00E2
Aluminum, Calcium, Iron, Magnesium

ME00E4
Aluminum, Calcium, Iron, Magnesium

ME00F6
Aluminum, Calcium, Iron, Magnesium

ME00F7
Aluminum, Calcium, Iron, Magnesium

ME00F8

Assembled By: ESAT
Date: June 29, 2001

Aluminum, Calcium, Iron, Magnesium

ME00F9
Aluminum, Calcium, Iron, Magnesium

ME00G0
Aluminum, Calcium, Iron, Magnesium

ME00G3
Aluminum, Calcium, Iron, Magnesium

DC-312: The following inorganic samples have elements other than Al, Ca, Fe, and Mg at concentrations higher than 10 ppm that may cause potential interference.
Hits are flagged "J" and non-detects are qualified "UJ".

Potassium
ME00E4, ME00F7, ME00F8, ME00G3

Sodium
ME00E0, ME00E2, ME00E3, ME00E4, ME00F6, ME00F7
ME00F8, ME00G0, ME00G3

Serial Dilution Report

SDG NO: ME00E0

DC-294: The analyte concentration is high (>50 X the IDL) and serial dilution percent difference is not in criteria (>10%).
Hits are qualified "J" and non-detects are qualified "UJ".

Iron
ME00E0, ME00E2, ME00E3, ME00E3D, ME00E3S, ME00E4
ME00F6, ME00F7, ME00F8, ME00F9, ME00G0, ME00G3

DC-295: The following inorganic samples are associated with an ICP serial dilution percent difference which is not in criteria. The serial dilution result is greater than the sample result, indicating a potential negative interference. The data must be qualified using professional judgement. Hits are qualified "J", non-detects "UJ".

Sodium
ME00E0, ME00E2, ME00E3, ME00E3D, ME00E4, ME00F6
ME00F7, ME00F8, ME00F9, ME00G0, ME00G3

7. GFAA ANALYSIS

Furnace AA QC Report

SDG NO: ME00E0

No problems found for this qualification.

Assembled By: ESAT
Date: June 29, 2001

Case Number : 29241
Site Name: American Cyanamide

SDG Number: ME00E0
Laboratory: AATS

8. SAMPLE RESULTS

All data, except those qualified above, are acceptable.

Sample Result Verification Report

SDG NO: ME00E0

No problems found for this qualification.

Assembled By: ESAT
Date: June 29, 2001

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case #: 29241 SDG : ME00E0

Site : AMERICAN CYANAMIDE

Lab. : AATS

Reviewer :

Date :

Number of Soil Samples : 0

Number of Water Samples : 10

Sample Number :	ME00E0		ME00E2		ME00E3		ME00E4		ME00F6	
Sampling Location :	G104		G106		G102		G101		G108	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001	
Time Sampled :	09:45		11:45		12:30		15:15		15:35	
%Solids :	0.0		0.0		0.0		0.0		0.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	58.3	J	554	J	286	J	308	J	1430	J
ANTIMONY	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U
ARSENIC	3.9		3.0	U	3.0	U	3.0	U	3.0	U
BARIUM	12.5		46.3		25.3		27.1		74.8	
BERYLLIUM	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
CADMIUM	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
CALCIUM	544000		206000		337000		452000		259000	
CHROMIUM	2.0	U	2.2		2.0	U	7.2		3.7	
COBALT	6.9		4.4		11.1		16.7		3.7	
COPPER	9.5		2.0	U	2.0	U	2.0	U	2.0	U
IRON	1610	J	3590	J	844	J	5700	J	2650	J
LEAD	2.0	U	2.0	U	2.0	U	2.0	U	3.4	
MAGNESIUM	745000		111000		135000		424000		143000	
MANGANESE	483		280		70.5		584		284	
MERCURY	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
NICKEL	23.6		2.9		11.3		10.5		4.0	
POTASSIUM	7330		3480		7890		28900	J	4330	
SELENIUM	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
SILVER	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
SODIUM	55300	J	25000	J	25200	J	209000	J	27300	J
THALLIUM	6.6		5.0	U	5.0	U	5.0	U	5.9	
VANADIUM	3.3		3.0	U	3.0	U	3.0	U	3.0	U
ZINC	1.0	U	1.0	U	1.0	U	1.0	U	1.0	
CYANIDE										

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29241 SDG : ME00E0
Site : AMERICAN CYANAMIDE
Lab. : AATS
Reviewer :
Date :

Sample Number :	ME00F7		ME00F8		ME00F9		ME00G0		ME00G3	
Sampling Location :	G109		G111		G113		G105		G107	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	05/08/2001		05/08/2001		05/09/2001		05/09/2001		05/09/2001	
Time Sampled :	17:30		17:45		08:10		08:30		10:20	
%Solids :	0.0		0.0		0.0		0.0		0.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	12.0	UJ	12.0	UJ	12.0	UJ	572	J	2300	J
ANTIMONY	6.0	U	6.0	U	6.0	U	6.0	U	7.1	
ARSENIC	3.0	U	3.0	U	3.0	U	4.0		15.0	
BARIUM	40.4		26.7		1.0	U	32.8		224	
BERYLLIUM	1.0	U	1.0	U	1.0	U	1.0	U	1.2	
CADMIUM	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
CALCIUM	79800		65500		8.0	U	292000		469000	
CHROMIUM	2.0	U	2.0	U	2.0	U	2.1		23.4	
COBALT	2.0	U	2.0	U	2.0	U	3.9		10.1	
COPPER	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
IRON	196	J	239	J	37.2	J	1990	J	13900	J
LEAD	2.0	U	2.0	U	2.0	U	2.0	U	6.0	
MAGNESIUM	47700		54400		40.4	J	197000		280000	
MANGANESE	61.2		28.6		1.0	U	148		2760	
MERCURY	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
NICKEL	2.0	U	2.0	U	2.0	U	9.5		27.6	
POTASSIUM	13700	J	58500	J	28.1		5030		24500	J
SELENIUM	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
SILVER	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
SODIUM	21200	J	69800	J	69.5	J	21000	J	41500	J
THALLIUM	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
VANADIUM	3.0	U	3.0	U	3.0	U	3.0	U	5.5	
ZINC	1.0	U	40.1	J	1.0	U	1.0	U	854	
CYANIDE										

Analytical Results (Qualified Data)

Case #: 29241 SDG : ME00E0
Site : AMERICAN CYANAMIDE
Lab. : AATS
Reviewer :
Date :

Sample Number :	ME00E3D		ME00E3S							
Sampling Location :	G102		G102							
Matrix :	Water		Water							
Units :	ug/L		ug/L							
Date Sampled :	05/08/2001		05/08/2001							
Time Sampled :	12:30		12:30							
%Solids :	0.0		0.0							
Dilution Factor :	1.0		1.0							
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	640	J	3070	J						
ANTIMONY	6.0	U	555							
ARSENIC	3.0	U	48.9							
BARIUM	27.4		2170							
BERYLLIUM	1.0	U	54.2							
CADMIUM	1.0	U	53.4							
CALCIUM	336000									
CHROMIUM	2.0	U	219							
COBALT	11.1		508							
COPPER	2.0	U	272							
IRON	1050	J	2190	J						
LEAD	2.0	U	17.6							
MAGNESIUM	136000									
MANGANESE	70.4		818							
MERCURY	0.10	UJ	0.75							
NICKEL	11.4		541							
POTASSIUM	8220									
SELENIUM	3.0	U	15.2							
SILVER	3.0	U	53.2							
SODIUM	25300	J								
THALLIUM	5.0	U	59.7							
VANADIUM	3.0	U	535							
ZINC	1.0	U	541							
CYANIDE										

USEPA Contract Laboratory Program
Inorganic Traffic Report

Case No: 29241
DAS No:
SDG No:
L

Date Shipped: 5/9/01 Carrier Name: FedEx Airbill: 4684285060 Shipped to: American Analytical & Technical Services, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545	Date Received/Received by: Lab Contract No: Unit Price: Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Bruce Everetts Relinquished By: Date / Time: 5-9/1400 Received By: Relinquished By: Date / Time: 5-10-01 8:30 Received By: Relinquished By: Date / Time: Received By:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00C7	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43668 (Ice Only) (1)	X111	5/7/01 17:15	E00C7	
ME00C8	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43670 (Ice Only) (1)	X112	5/7/01 15:15	E00C8	
ME00C9	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43672 (1)	X116	5/7/01 17:00	E00C9	
ME00D1	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43674 (1)	X117	5/7/01 16:45	E00D1	
ME00D2	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43676 (1)	X118	5/7/01 16:30	E00D2	
ME00D3	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43678 (1)	X119	5/7/01 16:30	E00D3	
ME00D4	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43680 (1)	X120	5/7/01 16:20	E00D4	
ME00D5	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43682 (1)	X121	5/7/01 15:50	E00D5	
ME00D6	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43684 (1)	X122	5/7/01 15:35	E00D6	
ME00D7	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43686 (1)	X123	5/7/01 16:10	E00D7	
ME00E0	Ground Water/ Bruce Everetts	L/G	TM (21)	5-43694 (HNO3), 5-43695 (HNO3) (2)	G104	5/8/01 9:45	E00E0	
ME00E2	Ground Water/ Bruce Everetts	L/G	TM (21)	5-055038 (HNO3), 5-55039 (HNO3) (2)	G106	5/8/01 11:45	E00E2	
ME00E3	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97159 (HNO3), 5-97160 (HNO3), 5-97161 (HNO3), 5-97162 (HNO3), 5-97163 (HNO3), 5-97164 (HNO3) (6)	G102	5/8/01 12:30	E00E3	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: MEC0E7	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 1.5, 2.4, 3.4	Chain of Custody Seal Number: 26033 - 26035
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__
TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide				

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Co[illegible] ontract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Res[illegible] \. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR N[illegible] 5 200575112 050001 0002

USEPA Contract Laboratory Program
Inorganic Traffic Report

Case No: 29241
DAS No:
SDG No:
L

Date Shipped: 5/9/01 Carrier Name: FedEx Airbill: 4684285060 Shipped to: American Analytical & Technical Services, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545	Date Received/Received by: 5-10-01 Lab Contract No: Unit Price: Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Bruce Everetts Relinquished By: Date / Time: 5-9/1400 Received By: Relinquished By: Date / Time: 5-10-01 8:30 Received By: Relinquished By: Date / Time: Received By:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00E4	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97174 (HNO3), 5-97175 (HNO3) (2)	G101	5/8/01 15:15	E00E4	
ME00E6	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97179 (Ice Only) (1)	X102	5/8/01 13:40	E00E6	
ME00E7	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97181 (Ice Only) (1)	X103	5/8/01 13:15	E00E7	
ME00E8	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97183 (1)	X104	5/8/01 14:00	E00E8	
ME00E9	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97185 (Ice Only) (1)	X105	5/8/01 13:00	E00E9	
ME00F0	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97187 (Ice Only) (1)	X106	5/8/01 16:45	E00F0	
ME00F1	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97189 (Ice Only) (1)	X107	5/8/01 18:00	E00F1	
ME00F2	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97191 (Ice Only) (1)	X108	5/8/01 17:45	E00F2	
ME00F3	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97193 (Ice Only) (1)	X109	5/8/01 17:10	E00F3	
ME00F4	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97195 (Ice Only) (1)	X110	5/8/01 17:10	E00F4	
ME00F5	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97197 (Ice Only) (1)	X124	5/8/01 17:45	E00F5	
ME00F6	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97199 (HNO3), 5-97200 (HNO3) (2)	G108	5/8/01 15:35	E00F6	
ME00F7	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97054 (HNO3), 5-97055 (HNO3) (2)	G109	5/8/01 17:30	E00F7	
ME00F8	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97059 (HNO3), 5-97060 (HNO3) (2)	G111	5/8/01 17:45	E00F8	
ME00F9	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97064 (HNO3), 5-97065 (HNO3) (2)	G113	5/9/01 8:10	E00F9	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: ME00F7	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 1.5, 2.4, 3.4	Chain of Custody Seal Number: 26033 - 26035
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__
TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide				

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Co[illegible] ontract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Re[illegible] 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Nu[illegible]er: 5-390575112-050901-0002

USEPA Contract Laboratory Program
Inorganic Traffic Report

Case No:	29241
DAS No:	
SDG No:	L

Date Shipped: 5/9/01	Date Received/Received by: 5-10-01	Sampler (Signature): Bruce Everetts	
Carrier Name: FedEx	Lab Contract No: ____ Unit Price: ____	Relinquished By:	Date / Time: 5-9/1400	Received By:
Airbill: 4684285060	Transfer To: ____	Relinquished By:	Date / Time: 5-10-01 8:30	Received By:
Shipped to: American Analytical & Technical Services, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545	Date Received/Received By: ____ Lab Contract No: ____ Price: ____	Relinquished By:	Date / Time:	Received By:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00G0	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97069 (HNO3), 5-97070 (HNO3) (2)	G105	5/9/01 8:30	E00G0	
ME00G1	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97074 (Ice Only) (1)	X201	5/9/01 9:30	E00G1	
ME00G2	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97076 (Ice Only) (1)	X202	5/9/01 9:45	E00G2	
ME00G3	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97078 (HNO3), 5-97079 (HNO3) (2)	G107	5/9/01 10:20	E00G3	
ME00G4	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97083 (Ice Only) (1)	X203	5/9/01 11:45	E00G4	
ME00G5	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97085 (1)	X204	5/9/01 11:30	E00G5	
ME00G6	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97087 (Ice Only) (1)	X205	5/9/01 12:15	E00G6	
ME00G7	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97089 (Ice Only) (1)	X206	5/9/01 12:30	E00G7	
ME00G8	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97091 (Ice Only) (1)	X101	5/9/01 12:45	E00G8	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: ME00E7	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2.5, 2.4, 3.4	Chain of Custody Seal Number: 26033-26035
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ____ Shipment Iced?

TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Cop[illegible] Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Res[illegible] V. 201[illegible]-3438 Phone [illegible]

AMERICAN ANALYTICAL & TECHNICAL SERVICES, INC
1700 West Albany / Broken Arrow, Oklahoma 74012 / Office (918) 251-2858 / Fax (918) 251-2599

JUN 2 0 2001

SDG NARRATIVE

CONTRACT: 68W00086 **DATE: 6/21/01**
CASE: 29241 **SOW NO.: ILM04.1**
SDG: ME00E0 **EPISODE NO.: 46510**

INORGANIC METAL FRACTION:

Ten water samples were submitted for ICP and Hg analysis. No major problems occurred during the digestion or analyses of these samples. The cooler temperatures at time of receipt were at 2.4 and 2.1° Celsius. The cooler temperature indicator bottle was present. One cooler frm this case was sent to the wrong laboratory. The missing cooler was received on 06/12/01. See attached memo for correspondence with Dyncorp in this issue. The lab uses a mixture of ICV-1, ICV-2, ICV-3 and ICV-4 for the ICP Initial Calibration Verification analysis. In order to obtain results for sodium and potassium within the calibration range of the TRACE ICP's, the ICV-1 reference solutions is prepared at twice the dilution suggested for the ICV-1 preparation. The sample's analyses were completed according to the following:

SWL SOP #	Method SOP is based
SWL-IN-200	ILM03.0/04.0 (ICP digestion & analysis)
SWL-IN-202	ILM03.0/04.0 (analysis of Hg by cold vapor)

Initial and Continuing Calibration Checks: No problems

Initial and Continuing Calibration Blanks: The following elements showed low level concentrations below the Contract Required Detection Limit in the Calibration Blank: Al, Ba, Be, Ca, Mg, Mn, K, Zn. No action required.

Linearity near the CRDL (CRA & CRI): No problems.

Preparation Blank: The following elements showed low level concentrations below the Contract Required Detection Limit in the Preparation Blank: Zn. No action required.

Lab Control Spikes: No problems.

Matrix Spikes: The following elements were outside the control limits of 75-125% recovery: Sb, Fe, Hg, Se. All associated samples were flagged with a "N" on Form I's. No action required.

Duplicate(s): The following elements were outside the control limits of 0-20% RPD: Al, Fe
All associated samples were flagged with a "*" on Form I's. No action required.

Serial Dilution (ICP): The soil serial dilution was outside the control limits of 10% for the following elements: Fe, Na
All associated samples were flagged with an "E" on Form I's. No action required.

Sincerely,

Steve Markham
Operations Manager

JUN 2 0 2001

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241 SAS No.: _____ SDG No.:ME00E0

SOW No.: ILM04.0

EPA Sample No.	Lab Sample ID
ME00E0	46510.01
ME00E2	46510.02
ME00E3	46510.03
ME00E3D	46510.04D
ME00E3S	46510.05S
ME00E4	46510.06
ME00F6	46510.07
ME00F7	46510.08
ME00F8	46510.09
ME00F9	46510.10
ME00G0	46510.11
ME00G3	46510.12

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES

If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Steve L. Markham Name: Steve L. Markham

Date: 06/22/01 Title: Operations Manager

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00E0

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00E0

Matrix (soil/water): WATER Lab Sample ID: 46510.01

Level (low/med): LOW__ Date Received: 05/12/01

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	58.3	B	N*	P
7440-36-0	Antimony_	6.0	U		P
7440-38-2	Arsenic__	3.9	B		P
7440-39-3	Barium___	12.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	544000			P
7440-47-3	Chromium_	2.0	U		P
7440-48-4	Cobalt___	6.9	B		P
7440-50-8	Copper___	9.5	B		P
7439-89-6	Iron_____	1610		EN*	P
7439-92-1	Lead____	2.0	U		P
7439-95-4	Magnesium	745000			P
7439-96-5	Manganese	483			P
7439-97-6	Mercury__	0.10	U	N	CV
7440-02-0	Nickel___	23.6	B		P
7440-09-7	Potassium	7330			P
7782-49-2	Selenium_	3.0	U	N	P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	55300		E	P
7440-28-0	Thallium_	6.6	B		P
7440-62-2	Vanadium_	3.2	B		P
7440-66-6	Zinc_____	1.0	U		P
	Cyanide__				NR

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00E2

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00E0

Matrix (soil/water): WATER Lab Sample ID: 46510.02

Level (low/med): LOW__ Date Received: 05/12/01

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	554		N*	P
7440-36-0	Antimony_	6.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	46.3	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	206000			P
7440-47-3	Chromium_	2.2	B		P
7440-48-4	Cobalt___	4.4	B		P
7440-50-8	Copper___	2.0	U		P
7439-89-6	Iron____	3590		EN*	P
7439-92-1	Lead____	2.0	U		P
7439-95-4	Magnesium	111000			P
7439-96-5	Manganese	280			P
7439-97-6	Mercury__	0.10	U	N	CV
7440-02-0	Nickel___	2.9	B		P
7440-09-7	Potassium	3480	B		P
7782-49-2	Selenium_	3.0	U	N	P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	25000		E	P
7440-28-0	Thallium_	5.0	U		P
7440-62-2	Vanadium_	3.0	U		P
7440-66-6	Zinc____	1.0	U		P
	Cyanide__				NR

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00E3

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00E0

Matrix (soil/water): WATER Lab Sample ID: 46510.03

Level (low/med): LOW__ Date Received: 05/12/01

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	286		N*	P
7440-36-0	Antimony_	6.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	25.3	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	337000			P
7440-47-3	Chromium_	2.0	U		P
7440-48-4	Cobalt___	11.1	B		P
7440-50-8	Copper___	2.0	U		P
7439-89-6	Iron____	844		EN*	P
7439-92-1	Lead____	2.0	U		P
7439-95-4	Magnesium	135000			P
7439-96-5	Manganese	70.5			P
7439-97-6	Mercury__	0.10	U	N	CV
7440-02-0	Nickel___	11.3	B		P
7440-09-7	Potassium	7890			P
7782-49-2	Selenium_	3.0	U	N	P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	25200		E	P
7440-28-0	Thallium_	5.0	U		P
7440-62-2	Vanadium_	3.0	U		P
7440-66-6	Zinc____	1.0	U		P
	Cyanide__				NR

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00E4

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00E0

Matrix (soil/water): WATER Lab Sample ID: 46510.06

Level (low/med): LOW__ Date Received: 05/12/01

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	308		N*	P
7440-36-0	Antimony_	6.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	27.1	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	452000			P
7440-47-3	Chromium_	7.2	B		P
7440-48-4	Cobalt___	16.7	B		P
7440-50-8	Copper___	2.0	U		P
7439-89-6	Iron____	5700		EN*	P
7439-92-1	Lead____	2.0	U		P
7439-95-4	Magnesium	424000			P
7439-96-5	Manganese	584			P
7439-97-6	Mercury__	0.10	U	N	CV
7440-02-0	Nickel___	10.5	B		P
7440-09-7	Potassium	28900			P
7782-49-2	Selenium_	3.0	U	N	P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	209000		E	P
7440-28-0	Thallium_	5.0	U		P
7440-62-2	Vanadium_	3.0	U		P
7440-66-6	Zinc____	1.0	U		P
	Cyanide__				NR

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00F6

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00E0

Matrix (soil/water): WATER Lab Sample ID: 46510.07

Level (low/med): LOW__ Date Received: 05/12/01

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	1430		N*	P
7440-36-0	Antimony_	6.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	74.8	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	259000			P
7440-47-3	Chromium_	3.7	B		P
7440-48-4	Cobalt___	3.7	B		P
7440-50-8	Copper___	2.0	U		P
7439-89-6	Iron_____	2650		EN*	P
7439-92-1	Lead_____	3.4			P
7439-95-4	Magnesium	143000			P
7439-96-5	Manganese	284			P
7439-97-6	Mercury__	0.10	U	N	CV
7440-02-0	Nickel___	4.0	B		P
7440-09-7	Potassium	4330	B		P
7782-49-2	Selenium_	3.0	U	N	P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	27300		E	P
7440-28-0	Thallium_	5.9	B		P
7440-62-2	Vanadium_	3.0	U		P
7440-66-6	Zinc_____	1.0	B		P
	Cyanide__				NR

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00F7

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00E0

Matrix (soil/water): WATER Lab Sample ID: 46510.08

Level (low/med): LOW__ Date Received: 05/12/01

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	12.0	U	N*	P
7440-36-0	Antimony_	6.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	40.4	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	79800			P
7440-47-3	Chromium_	2.0	U		P
7440-48-4	Cobalt___	2.0	U		P
7440-50-8	Copper___	2.0	U		P
7439-89-6	Iron_____	196		EN*	P
7439-92-1	Lead_____	2.0	U		P
7439-95-4	Magnesium	47700			P
7439-96-5	Manganese	61.2			P
7439-97-6	Mercury__	0.10	U	N	CV
7440-02-0	Nickel___	2.0	U		P
7440-09-7	Potassium	13700			P
7782-49-2	Selenium_	3.0	U	N	P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	21200		E	P
7440-28-0	Thallium_	5.0	U		P
7440-62-2	Vanadium_	3.0	U		P
7440-66-6	Zinc_____	1.0	U		P
	Cyanide__				NR

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00F8

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00E0

Matrix (soil/water): WATER Lab Sample ID: 46510.09

Level (low/med): LOW__ Date Received: 05/12/01

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	12.0	U	N*	P
7440-36-0	Antimony_	6.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	26.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	65500			P
7440-47-3	Chromium_	2.0	U		P
7440-48-4	Cobalt___	2.0	U		P
7440-50-8	Copper___	2.0	U		P
7439-89-6	Iron_____	239		EN*	P
7439-92-1	Lead_____	2.0	U		P
7439-95-4	Magnesium	54400			P
7439-96-5	Manganese	28.6			P
7439-97-6	Mercury__	0.10	U	N	CV
7440-02-0	Nickel___	2.0	U		P
7440-09-7	Potassium	58500			P
7782-49-2	Selenium_	3.0	U	N	P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	69800		E	P
7440-28-0	Thallium_	5.0	U		P
7440-62-2	Vanadium_	3.0	U		P
7440-66-6	Zinc_____	40.1			P
	Cyanide__				NR

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00F9

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00E0

Matrix (soil/water): WATER Lab Sample ID: 46510.10

Level (low/med): LOW__ Date Received: 05/12/01

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	12.0	U	N*	P
7440-36-0	Antimony_	6.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	1.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	8.0	U		P
7440-47-3	Chromium_	2.0	U		P
7440-48-4	Cobalt___	2.0	U		P
7440-50-8	Copper___	2.0	U		P
7439-89-6	Iron_____	37.2	B	EN*	P
7439-92-1	Lead_____	2.0	U		P
7439-95-4	Magnesium	40.4	B		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury__	0.10	U	N	CV
7440-02-0	Nickel___	2.0	U		P
7440-09-7	Potassium	28.1	B		P
7782-49-2	Selenium_	3.0	U	N	P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	69.5	B	E	P
7440-28-0	Thallium_	5.0	U		P
7440-62-2	Vanadium_	3.0	U		P
7440-66-6	Zinc_____	1.0	U		P
	Cyanide__				NR

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00G0

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00E0

Matrix (soil/water): WATER Lab Sample ID: 46510.11

Level (low/med): LOW__ Date Received: 05/12/01

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	572		N*	P
7440-36-0	Antimony_	6.0	U		P
7440-38-2	Arsenic__	4.0	B		P
7440-39-3	Barium___	32.8	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	292000			P
7440-47-3	Chromium_	2.1	B		P
7440-48-4	Cobalt___	3.9	B		P
7440-50-8	Copper___	2.0	U		P
7439-89-6	Iron_____	1990		EN*	P
7439-92-1	Lead_____	2.0	U		P
7439-95-4	Magnesium	197000			P
7439-96-5	Manganese	148			P
7439-97-6	Mercury__	0.10	U	N	CV
7440-02-0	Nickel___	9.5	B		P
7440-09-7	Potassium	5030			P
7782-49-2	Selenium_	3.0	U	N	P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	21000		E	P
7440-28-0	Thallium_	5.0	U		P
7440-62-2	Vanadium_	3.0	U		P
7440-66-6	Zinc_____	1.0	U		P
	Cyanide__				NR

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00G3

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00E0

Matrix (soil/water): WATER Lab Sample ID: 46510.12

Level (low/med): LOW__ Date Received: 05/12/01

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	2300		N*	P
7440-36-0	Antimony_	7.1	B		P
7440-38-2	Arsenic__	15.0			P
7440-39-3	Barium___	224			P
7440-41-7	Beryllium	1.2	B		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	469000			P
7440-47-3	Chromium_	23.4			P
7440-48-4	Cobalt___	10.1	B		P
7440-50-8	Copper___	2.0	U		P
7439-89-6	Iron____	13900		EN*	P
7439-92-1	Lead____	6.0			P
7439-95-4	Magnesium	280000			P
7439-96-5	Manganese	2760			P
7439-97-6	Mercury__	0.10	U	N	CV
7440-02-0	Nickel___	27.6	B		P
7440-09-7	Potassium	24500			P
7782-49-2	Selenium_	3.0	U	N	P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	41500		E	P
7440-28-0	Thallium_	5.0	U		P
7440-62-2	Vanadium_	5.5	B		P
7440-66-6	Zinc____	854			P
	Cyanide__				NR

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00E0

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	12.0	U	12.0	U	12.0	U	16.3	B	12.00	U	P
Antimony	6.0	U	6.0	U	6.0	U	6.0	U	6.00	U	P
Arsenic	3.0	U	3.0	U	3.0	U	3.0	U	3.00	U	P
Barium	1.0	U	1.0	U	1.0	U	1.0	U	1.00	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	1.00	U	P
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	1.00	U	P
Calcium	8.0	U	10.2	B	9.1	B	17.4	B	-11.97	B	P
Chromium	2.0	U	2.0	U	2.0	U	2.0	U	2.00	U	P
Cobalt	2.0	U	2.0	U	2.0	U	2.0	U	2.00	U	P
Copper	2.0	U	2.0	U	2.0	U	2.0	U	2.00	U	P
Iron	16.0	U	16.0	U	16.0	U	16.0	U	16.00	U	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	2.00	U	P
Magnesium	40.0	U	40.0	U	40.0	U	43.8	B	40.00	U	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	1.00	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.10	U	CV
Nickel	2.0	U	2.0	U	2.0	U	2.0	U	2.00	U	P
Potassium	25.1	B	24.0	U	24.0	U	24.0	U	24.00	U	P
Selenium	3.0	U	3.0	U	3.0	U	3.0	U	3.00	U	P
Silver	3.0	U	3.0	U	3.0	U	3.0	U	3.00	U	P
Sodium	18.0	U	18.0	U	18.0	U	18.0	U	18.00	U	P
Thallium	5.0	U	5.0	U	5.0	U	5.0	U	5.00	U	P
Vanadium	3.0	U	3.0	U	3.0	U	3.0	U	3.00	U	P
Zinc	-3.3	B	-1.6	B	11.1	B	11.1	B	2.90	B	P
Cyanide											NR

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3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00E0

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	12.0	U	37.1	B	13.0	B	12.0	U			P
Antimony			6.0	U							P
Arsenic			3.0	U							P
Barium			5.0	B							P
Beryllium			2.0	B							P
admium			1.3	B							P
alcium	8.0	U	44.1	B	26.7	B	19.1	B			P
Chromium			2.0	U							P
Cobalt			2.0	U							P
Copper			2.0	U							P
Iron	16.0	U	16.0	U	-21.6	B	-19.9	B			P
Lead			2.0	U							P
Magnesium	40.0	U	58.4	B	56.2	B	48.3	B			P
Manganese			1.1	B							P
Mercury			0.1	U							CV
Nickel			2.0	U							P
Potassium			41.8	B							P
Selenium			3.0	U							P
Silver			3.0	U	3.0	U					P
Sodium			18.0	U							P
Thallium			5.0	U							P
Vanadium			3.0	U							P
Zinc			-2.0	B							P
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00E0

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			12.3	B							P
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium			28.1	B							P
Chromium											NR
Cobalt											NR
Copper											NR
Iron			-18.9	B							P
Lead											NR
Magnesium			60.6	B							P
Manganese											NR
Mercury											NR
Nickel											NR
Potassium	24.0	U	24.0	U	24.0	U	24.0	U			P
Selenium	3.0	U	3.0	U	3.0	U	3.0	U			P
Silver											NR
Sodium	18.0	U	18.0	U	18.0	U	18.0	U			P
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00E0

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium			24.0	U							P
Selenium			3.0	U							P
Silver											NR
Sodium			18.0	U							P
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00E0

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium	18.0	U	18.0	U	18.0	U	18.0	U			P
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00E3S

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00E0

Matrix (soil/water): WATER_ Level (low/med): LOW___

% Solids for Sample: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	3068.4300		286.2010		2000.00	139.1	N	P
Antimony	75-125	555.2730		6.0000	U	500.00	111.1		P
Arsenic	75-125	48.8900		3.0000	U	40.00	122.2		P
Barium	75-125	2168.7050		25.2830	B	2000.00	107.2		P
Beryllium	75-125	54.2440		1.0000	U	50.00	108.5		P
Cadmium	75-125	53.3600		1.0000	U	50.00	106.7		P
Calcium									NR
Chromium	75-125	218.9080		2.0000	U	200.00	109.5		P
Cobalt	75-125	507.5750		11.1000	B	500.00	99.3		P
Copper	75-125	271.6070		2.0000	U	250.00	108.6		P
Iron	75-125	2193.0830		844.0060		1000.00	134.9	N	P
Lead	75-125	17.6100		2.0000	U	20.00	88.0		P
Magnesium									NR
Manganese	75-125	618.1330		70.4940		500.00	109.5		P
Mercury	75-125	0.7470		0.1000	U	1.00	74.7	N	CV
Nickel	75-125	541.0000		11.2660	B	500.00	105.9		P
Potassium									NR
Selenium	75-125	15.2030		3.0000	U	10.00	152.0	N	P
Silver	75-125	53.1600		3.0000	U	50.00	106.3		P
Sodium									NR
Thallium	75-125	59.7040		5.0000	U	50.00	119.4		P
Vanadium	75-125	534.6830		3.0000	U	500.00	106.9		P
Zinc	75-125	541.4910		1.0000	U	500.00	108.3		P
Cyanide									NR

Comments:

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00E3A

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00E0

Matrix (soil/water) : WATER_ Level (low/med): LOW___

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Added (SA)	%R	Q	M
Aluminum		671.13		286.20		430.0	89.5		P
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron		2366.30		844.01		1700.0	89.5		P
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium		16.71		3.00	U	10.0	167.1		P
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

ME00E3D

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00E0

Matrix (soil/water): WATER Level (low/med): _LOW__

% Solids for Sample: __0.0 % Solids for Duplicate: ___0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	200.0	286.2010		639.7290		76.4	*	P
Antimony		6.0000	U	6.0000	U			P
Arsenic		3.0000	U	3.0000	U			P
Barium		25.2830	B	27.4420	B	8.2		P
Beryllium		1.0000	U	1.0000	U			P
Cadmium		1.0000	U	1.0000	U			P
Calcium		336541.3950		336323.8220		0.1		P
Chromium		2.0000	U	2.0000	U			P
Cobalt		11.1000	B	11.0920	B	0.1		P
Copper		2.0000	U	2.0000	U			P
Iron		844.0060		1046.8190		21.5	*	P
Lead		2.0000	U	2.0000	U			P
Magnesium		134989.8950		135886.1190		0.7		P
Manganese	15.0	70.4940		70.3660		0.2		P
Mercury		0.1000	U	0.1000	U			CV
Nickel		11.2660	B	11.3630	B	0.9		P
Potassium	5000.0	7888.9710		8216.0280		4.1		P
Selenium		3.0000	U	3.0000	U			P
Silver		3.0000	U	3.0000	U			P
Sodium		25211.1910		25329.9300		0.5		P
Thallium		5.0000	U	5.0000	U			P
Vanadium		3.0000	U	3.0000	U			P
Zinc		1.0000	U	1.0000	U			P
Cyanide								NR

U.S. EPA - CLP

9

ICP SERIAL DILUTION

EPA SAMPLE NO.

ME00E3L

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00E0

Matrix (soil/water): WATER Level (low/med): LOW__

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	286.20		281.13	B	1.8		P
Antimony	6.00	U	30.00	U			P
Arsenic	3.00	U	15.00	U			P
Barium	25.28	B	26.60	B	5.2		P
Beryllium	1.00	U	5.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	336541.39		366749.95		9.0		P
Chromium	2.00	U	10.00	U			P
Cobalt	11.10	B	11.09	B	0.1		P
Copper	2.00	U	10.00	U			P
Iron	844.01		740.04		12.3	E	P
Lead	2.00	U	10.00	U			P
Magnesium	134989.89		137724.62		2.0		P
Manganese	70.49		73.35	B	4.1		P
Mercury							NR
Nickel	11.27	B	12.62	B	12.0		P
Potassium	7888.97		8177.98	B	3.7		P
Selenium	3.00	U	15.00	U			P
Silver	3.00	U	15.00	U			P
Sodium	25211.19		28835.65		14.4	E	P
Thallium	5.00	U	25.00	U			P
Vanadium	3.00	U	15.00	U			P
Zinc	1.00	U	26.82	B			P

U.S. EPA - CLP

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Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00E0

ICP ID Number: TJA_ET2_____ Date: 03/12/01

Flame AA ID Number : _____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	12.0	P
Antimony	206.83		60	6.0	P
Arsenic	189.04		10	3.0	P
Barium	493.41		200	1.0	P
Beryllium	313.04		5	1.0	P
Cadmium	226.50		5	1.0	P
Calcium	317.93		5000	8.0	P
Chromium	267.72		10	2.0	P
Cobalt	228.62		50	2.0	P
Copper	324.75		25	2.0	P
Iron	271.44		100	16.0	P
Lead	220.35		3	2.0	P
Magnesium	279.08		5000	40.0	P
Manganese	257.61		15	1.0	P
Mercury			0.2		NR
Nickel	231.60		40	2.0	P
Potassium	766.49		5000	24.0	P
Selenium	196.03		5	3.0	P
Silver	328.07		10	3.0	P
Sodium	588.99		5000	18.0	P
Thallium	190.87		10	5.0	P
Vanadium	292.40		50	3.0	P
Zinc	213.86		20	1.0	P
Cyanide			10		NR

Comments:

10

Instrument Detection Limits (Quarterly)

Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00E0

ICP ID Number: _____ Date: 05/07/01

Flame AA ID Number : LEEMAN_B____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	254.00		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

Comments:

pest + svcc

JUN 06 2001

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE: _____

SUBJECT: Electronic (Level 2) Review of Data

Received for Review on 05-29-01

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

The following data has been electronically reviewed by CADRE. No review of the raw data, laboratory narrative, laboratory forms or chain-of-custody forms was performed.

SITE NAME: AMERICAN CYANAMIDE (IL)

CASE NUMBER: 29241 SDG NUMBER: E00E0

Number and Type of Samples: 10 Waters

Sample Numbers: E00E0, E00E2 - E00E4, E00F6 - E00F9, E00G0, E00G3

Laboratory: COMPUCHEM Hrs. for Review: _____

Following are our findings:

RECEIVED
1 1 2001
IEPA-BOL-FSRS

RECEIVED
JUN 1 1 2001
IEPA-BOL-FSRS

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

Case Number : 29241 **SDG Number: E00E0**
Site Name: AMERICAN CYANAMIDE (IL) **Laboratory: COMPUCHEM**

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Ten (10) water samples, numbered *E00E0, E00E2* through *E00E4, E00F6* through *E00F9, E00G0* and *E00G3,* were collected *May 8 - 9, 2001*. The lab received the samples on *May 10, 2001* in good condition. All samples were analyzed for the semivolatile and pesticide/pcb lists of organic analytes. All were analyzed according to CLP SOW *OLM04.2* 5/99.

Case Number : 29241 SDG Number: E00E0
.te Name: AMERICAN CYANAMIDE (IL) Laboratory: COMPUCHEM

1. HOLDING TIME

No problems found for this qualification.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

SYSTEM PERFORMANCE CRITERIA

Resolution & Breakdown Limits

RESC percent resolution 60.00
PEM percent resolution 90.00
4,4'-DDT percent breakdown 20.00
Endrin percent breakdown 20.00
Combined percent breakdown 30.00

DC-211: The following pesticide samples had no associated continuing PEM. Professional judgement is recommended. Hits and non-detects are not flagged.

E00G0, E00G3

3. CALIBRATION

CALIBRATION CRITERIA

Semivolatile

	Primary	Expanded
Minimum RRF	0.05	0.05
Maximum %RSD (initial calibration)	30	30
Maximum %D (continuing calibration)	25	25
Calibration time period	12	

Pesticide

Case Number : 29241 SDG Number: E00E0
.te Name: AMERICAN CYANAMIDE (IL) Laboratory: COMPUCHEM

Maximum %RSD (initial calibration) - TCL analytes 20
- surrogates 30
Maximum RPD (continuing calibration) 25
INDA/INDB percent resolution 90
Continuing calibration sequence time 12

DC-97: The following semivolatile samples are associated with a continuing calibration whose corresponding initial calibration has relative response factors (RRFs) outside primary criteria. Hits are flagged "J" and non-detects are qualified "R".

Atrazine
E00E4, SBLKGK

DC-99: The following semivolatile samples are associated with a continuing calibration relative response factor (RRF50) outside primary criteria.
Hits are flagged "J" and non-detects are qualified "R".

Atrazine
E00E0, E00E2, E00E3, E00E3MS, E00E3MSD, E00E4
E00F6, E00F7, E00F8, E00F9, E00G0, E00G3
SBLKFX, SBLKGK

DC-100: The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria.
Hits are qualified "J" and non-detects are qualified "UJ".

Hexachlorocyclopentadiene
E00E0, E00E2, E00E3, E00E3MS, E00E3MSD, E00F6
E00F7, E00F8, E00F9, E00G0, E00G3, SBLKFX

2,6-Dinitrotoluene
E00E0, E00E2, E00E3, E00E3MS, E00E3MSD, E00F6
E00F7, E00F8, E00F9, E00G0, E00G3, SBLKFX

4-Nitroaniline
E00E0, E00E2, E00E3, E00E3MS, E00E3MSD, E00F6
E00F7, E00F8, E00F9, E00G0, E00G3, SBLKFX

Case Number : 29241 SDG Number: E00E0
.te Name: AMERICAN CYANAMIDE (IL) Laboratory: COMPUCHEM

Pentachlorophenol
E00E0, E00E2, E00E3, E00E3MS, E00E3MSD, E00E4
E00F6, E00F7, E00F8, E00F9, E00G0, E00G3
SBLKFX, SBLKGK

Pyrene
E00E0, E00E2, E00E3, E00E3MS, E00E3MSD, E00F6
E00F7, E00F8, E00F9, E00G0, E00G3, SBLKFX

DC-190: The following pesticide samples are not qualified for initial calibration due to missing calibration information.
Manual review of the data is required.

E00E0, E00E2, E00E3, E00E3MS, E00E3MSD, E00E4
E00F6, E00F7, E00F8, E00F9, E00G0, E00G3
PBLKGE

DC-193: The following pesticide samples are associated with an incorrect continuing calibration sequence.
Professional judgement should be used to qualify the data.

E00G0, E00G3

DC-197: The following pesticide samples are not qualified for continuing calibration because of missing continuing calibration information.
Manual review of the data is required.

E00E0, E00E2, E00E3, E00E3MS, E00E3MSD, E00E4
E00F6, E00F7, E00F8, E00F9, E00G0, E00G3
PBLKGE

4. BLANKS

DC-72: The blank associated with the following sample was qualified "R" during a previous qualification. Hits and non-detects are not flagged.

E00E0
Atrazine

Case Number : 29241 SDG Number: E00E0
te Name: AMERICAN CYANAMIDE (IL) Laboratory: COMPUCHEM

E00E2
Atrazine

E00E3
Atrazine

E00E3MS
Atrazine

E00E3MSD
Atrazine

E00E4
Atrazine

E00F6
Atrazine

E00F7
Atrazine

E00F8
Atrazine

E00F9
Atrazine

E00G0
Atrazine

E00G3
Atrazine

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

SMC/SURROGATE CRITERIA

Pesticide

Percent Recovery Limits

Case Number : 29241 SDG Number: E00E0
ite Name: AMERICAN CYANAMIDE (IL) Laboratory: COMPUCHEM

	--- Water ---		---- Soil ---	
	Lower	Upper	Lower	Upper
Tetrachloro-m-xylene	30.0	150.0	30.0	150.0
Decachlorobiphenyl	30.0	150.0	30.0	150.0

DC-174: The following pesticide samples have surrogate percent recoveries which exceed the upper limit of the criteria window.
Hits are qualified "J" and non-detects are not flagged.

E00E3MS, E00F8

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

MATRIX SPIKE CRITERIA

Semivolatile

Percent Recovery Limits & RPD

	------ Water -------			------ Soil --------		
	Lower	Upper	RPD	Lower	Upper	RPD
Phenol	12.0	110.0	42.0	26.0	90.0	35.0
2-Chlorophenol	27.0	123.0	40.0	25.0	102.0	50.0
N-Nitroso-di-n-propylamine	41.0	116.0	38.0	41.0	126.0	38.0
4-Chloro-3-methylphenol	23.0	97.0	42.0	26.0	103.0	33.0
Acenaphthene	46.0	118.0	31.0	31.0	137.0	19.0
4-Nitrophenol	10.0	80.0	50.0	11.0	114.0	50.0
2,4-Dinitrotoluene	24.0	96.0	38.0	28.0	89.0	47.0
Pentachlorophenol	9.0	103.0	50.0	17.0	109.0	47.0
Pyrene	26.0	127.0	31.0	35.0	142.0	36.0

Pesticide

Percent Recovery Limits & RPD

Case Number : 29241 SDG Number: E00E0
te Name: AMERICAN CYANAMIDE (IL) Laboratory: COMPUCHEM

	Water			Soil		
	Lower	Upper	RPD	Lower	Upper	RPD
gamma-BHC (Lindane)	56.0	123.0	15.0	46.0	127.0	50.0
Heptachlor	40.0	131.0	20.0	35.0	130.0	31.0
Aldrin	40.0	120.0	22.0	34.0	132.0	43.0
Dieldrin	52.0	126.0	18.0	31.0	134.0	38.0
Endrin	56.0	121.0	21.0	42.0	139.0	45.0
4,4'-DDT	38.0	127.0	27.0	23.0	134.0	50.0

DC-51: The following semivolatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Results for the outlier compound in the unspiked sample, E00E3, is estimated, "J" and a non-detect is estimated, "UJ".

E00E3MS
Pentachlorophenol

E00E3MSD
Pentachlorophenol

DC-169: The relative percent difference (RPD) between the following pesticide matrix spike and matrix spike duplicate recoveries is outside criteria. Results for the outlier compound in the unspiked sample, E00E3, is estimated, "J" and a non-detect is estimated, "UJ".

E00E3MS
gamma-BHC (Lindane), Heptachlor, Aldrin, Dieldrin
Endrin, 4,4'-DDT

E00E3MSD
gamma-BHC (Lindane), Heptachlor, Aldrin, Dieldrin
Endrin, 4,4'-DDT

DC-170: The following pesticide matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Results for the outlier compound in the unspiked sample, E00E3, is estimated, "J" and a non-detect is estimated, "UJ".

E00E3MS
gamma-BHC (Lindane), Heptachlor, Aldrin, Dieldrin
Endrin, 4,4'-DDT

Case Number : 29241 SDG Number: E00E0
.te Name: AMERICAN CYANAMIDE (IL) Laboratory: COMPUCHEM

E00E3MSD
Dieldrin, Endrin

7. FIELD BLANK AND FIELD DUPLICATE

No samples were identified as field blanks or field duplicates. Results are not qualified based upon the results of the field blank or field duplicates.

8. INTERNAL STANDARDS

No problems found for this qualification.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

CONTRACT REQUIRED SAMPLE QUANTITY

	Water	Low Soil	Med Soil
BNA	1000.0 (ML)	30.0 (G)	1.0 (G)
PES	1000.0 (ML)	30.0 (G)	

DC-110: The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E00E0
bis(2-Ethylhexyl)phthalate

E00E2
bis(2-Ethylhexyl)phthalate

E00E3
bis(2-Ethylhexyl)phthalate

Case Number : 29241 SDG Number: E00E0
te Name: AMERICAN CYANAMIDE (IL) Laboratory: COMPUCHEM

E00E3MS
bis(2-Ethylhexyl)phthalate

E00E4
Caprolactam , Di-n-butylphthalate

E00F6
bis(2-Ethylhexyl)phthalate

DC-158: The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E00E2
gamma-Chlordane

E00E4
Heptachlor epoxide

E00F6
Heptachlor epoxide

E00F8
delta-BHC, Endosulfan sulfate, Endrin ketone

DC-422: The following pesticide samples have analytes for which the percent difference between column results exceeds primary criteria.
Professional judgement should be used to qualify the data.

E00E2
gamma-Chlordane

E00E3MSD
gamma-BHC (Lindane), Heptachlor, Endrin ketone

E00E4
Heptachlor epoxide

E00F6
Heptachlor epoxide

Case Number : 29241 SDG Number: E00E0
te Name: AMERICAN CYANAMIDE (IL) Laboratory: COMPUCHEM

E00F8
Endrin ketone

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00E0
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 10

Sample Number :	E00E0		E00E2		E00E3		E00E3MS		E00E3MSD	
Sampling Location :	G104		G106		G102		G102		G102	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001	
Time Sampled :	09:45		11:45		12:30		12:30		12:30	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	10	U	10	U	10	U	10	U	10	U
Phenol	10	U	10	U	10	U	60		60	
bis-(2-Chloroethyl) ether	10	U	10	U	10	U	10	U	10	U
2-Chlorophenol	10	U	10	U	10	U	48		50	
2-Methylphenol	10	U	10	U	10	U	10	U	10	U
2,2'-oxybis(1-Chloropropane)	10	U	10	U	10	U	10	U	10	U
Acetophenone	10	U	10	U	10	U	10	U	10	U
4-Methylphenol	10	U	10	U	10	U	10	U	10	U
N-Nitroso-di-n-propylamine	10	U	10	U	10	U	45		46	
Hexachloroethane	10	U	10	U	10	U	10	U	10	U
Nitrobenzene	10	U	10	U	10	U	10	U	10	U
Isophorone	10	U	10	U	10	U	10	U	10	U
2-Nitrophenol	10	U	10	U	10	U	10	U	10	U
2,4-Dimethylphenol	10	U	10	U	10	U	10	U	10	U
bis(2-Chloroethoxy)methane	10	U	10	U	10	U	10	U	10	U
2,4-Dichlorophenol	10	U	10	U	10	U	10	U	10	U
Naphthalene	10	U	10	U	10	U	10	U	10	U
4-Chloroaniline	10	U	10	U	10	U	10	U	10	U
Hexachlorobutadiene	10	U	10	U	10	U	10	U	10	U
Caprolactam	10	U	10	U	10	U	10	U	10	U
4-Chloro-3-methylphenol	10	U	10	U	10	U	65		65	
2-Methylnaphthalene	10	U	10	U	10	U	10	U	10	U
Hexachlorocyclopentadiene	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
2,4,6-Trichlorophenol	10	U	10	U	10	U	10	U	10	U
2,4,5-Trichlorophenol	25	U	25	U	25	U	25	U	25	U
1,1'-Biphenyl	10	U	10	U	10	U	10	U	10	U
2-Chloronaphthalene	10	U	10	U	10	U	10	U	10	U
2-Nitroaniline	25	U	25	U	25	U	25	U	25	U
Dimethylphthalate	10	U	10	U	10	U	10	U	10	U
2,6-Dinitrotoluene	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Acenaphthylene	10	U	10	U	10	U	10	U	10	U
3-Nitroaniline	25	U	25	U	25	U	25	U	25	U
Acenaphthene	10	U	10	U	10	U	45		45	

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either *validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user.* Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00E0
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00E0		E00E2		E00E3		E00E3MS		E00E3MSD	
Sampling Location :	G104		G106		G102		G102		G102	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001	
Time Sampled :	09:45		11:45		12:30		12:30		12:30	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	25	U	25	U	25	U	25	U	25	U
4-Nitrophenol	25	U	25	U	25	U	47		49	
Dibenzofuran	10	U	10	U	10	U	10	U	10	U
2,4-Dintrotoluene	10	U	10	U	10	U	37		38	
Diethylphthalate	10	U	10	U	10	U	10	U	10	U
Fluorene	10	U	10	U	10	U	10	U	10	U
4-Chlorophenyl-phenyl ether	10	U	10	U	10	U	10	U	10	U
4-Nitroaniline	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ
4,6-Dinitro-2-methylphenol	25	U	25	U	25	U	25	U	25	U
N-Nitrosodiphenylamine	10	U	10	U	10	U	10	U	10	U
4-Bromophenyl-phenylether	10	U	10	U	10	U	10	U	10	U
Hexachlorobenzene	10	U	10	U	10	U	10	U	10	U
Atrazine	10	R	10	R	10	R	10	R	10	R
Pentachlorophenol	25	UJ	25	UJ	25	UJ	94	J	100	J
Phenanthrene	10	U	10	U	10	U	10	U	10	U
Anthracene	10	U	10	U	10	U	10	U	10	U
Carbazole	10	U	10	U	10	U	10	U	10	U
Di-n-butylphthalate	10	U	10	U	10	U	10	U	10	U
Fluoranthene	10	U	10	U	10	U	10	U	10	U
Pyrene	10	UJ	10	UJ	10	UJ	35	J	45	J
Butylbenzylphthalate	10	U	10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	10	U	10	U	10	U	10	U	10	U
Benzo(a)anthracene	10	U	10	U	10	U	10	U	10	U
Chrysene	10	U	10	U	10	U	10	U	10	U
bis(2-Ethylhexyl)phthalate	3	J	2	J	2	J	1	J	10	U
Di-n-octylphthalate	10	U	10	U	10	U	10	U	10	U
Benzo(b)fluoranthene	10	U	10	U	10	U	10	U	10	U
Benzo(k)fluoranthene	10	U	10	U	10	U	10	U	10	U
Benzo(a)pyrene	10	U	10	U	10	U	10	U	10	U
Indeno(1,2,3-cd)pyrene	10	U	10	U	10	U	10	U	10	U
Dibenzo(a,h)anthracene	10	U	10	U	10	U	10	U	10	U
Benzo(g,h,i)perylene	10	U	10	U	10	U	10	U	10	U

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00E0
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00E4		E00F6		E00F7		E00F8		E00F9	
Sampling Location :	G101		G108		G109		G111		G113	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/09/2001	
Time Sampled :	15:15		15:35		17:30		17:45		08:10	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*
Benzaldehyde	10	U	10	U	10	U	10	U	10	U
Phenol	10	U	10	U	10	U	10	U	10	U
bis-(2-Chloroethyl) ether	10	U	10	U	10	U	10	U	10	U
2-Chlorophenol	10	U	10	U	10	U	10	U	10	U
2-Methylphenol	10	U	10	U	10	U	10	U	10	U
2,2'-oxybis(1-Chloropropane)	10	U	10	U	10	U	10	U	10	U
Acetophenone	10	U	10	U	10	U	10	U	10	U
4-Methylphenol	10	U	10	U	10	U	10	U	10	U
N-Nitroso-di-n-propylamine	10	U	10	U	10	U	10	U	10	U
Hexachloroethane	10	U	10	U	10	U	10	U	10	U
Nitrobenzene	10	U	10	U	10	U	10	U	10	U
Isophorone	10	U	10	U	10	U	10	U	10	U
2-Nitrophenol	10	U	10	U	10	U	10	U	10	U
2,4-Dimethylphenol	10	U	10	U	10	U	10	U	10	U
bis(2-Chloroethoxy)methane	10	U	10	U	10	U	10	U	10	U
2,4-Dichlorophenol	10	U	10	U	10	U	10	U	10	U
Naphthalene	10	U	10	U	10	U	10	U	10	U
4-Chloroaniline	10	U	10	U	10	U	10	U	10	U
Hexachlorobutadiene	10	U	10	U	10	U	10	U	10	U
Caprolactam	2	J	10	U	10	U	17		10	U
4-Chloro-3-methylphenol	10	U	10	U	10	U	10	U	10	U
2-Methylnaphthalene	10	U	10	U	10	U	10	U	10	U
Hexachlorocyclopentadiene	10	U	10	UJ	10	UJ	10	UJ	10	UJ
2,4,6-Trichlorophenol	10	U	10	U	10	U	10	U	10	U
2,4,5-Trichlorophenol	25	U	25	U	25	U	25	U	25	U
1,1'-Biphenyl	10	U	10	U	10	U	10	U	10	U
2-Chloronaphthalene	10	U	10	U	10	U	10	U	10	U
2-Nitroaniline	25	U	25	U	25	U	25	U	25	U
Dimethylphthalate	10	U	10	U	10	U	10	U	10	U
2,6-Dinitrotoluene	10	U	10	UJ	10	UJ	10	UJ	10	UJ
Acenaphthylene	10	U	10	U	10	U	10	U	10	U
3-Nitroaniline	25	U	25	U	25	U	25	U	25	U
Acenaphthene	10	U	10	U	10	U	10	U	10	U

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00E0
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00E4		E00F6		E00F7		E00F8		E00F9	
Sampling Location :	G101		G108		G109		G111		G113	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/09/2001	
Time Sampled :	15:15		15:35		17:30		17:45		08:10	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	25	U	25	U	25	U	25	U	25	U
4-Nitrophenol	25	U	25	U	25	U	25	U	25	U
Dibenzofuran	10	U	10	U	10	U	10	U	10	U
2,4-Dinitrotoluene	10	U	10	U	10	U	10	U	10	U
Diethylphthalate	10	U	10	U	10	U	10	U	10	U
Fluorene	10	U	10	U	10	U	10	U	10	U
4-Chlorophenyl-phenyl ether	10	U	10	U	10	U	10	U	10	U
4-Nitroaniline	25	U	25	UJ	25	UJ	25	UJ	25	UJ
4,6-Dinitro-2-methylphenol	25	U	25	U	25	U	25	U	25	U
N-Nitrosodiphenylamine	10	U	10	U	10	U	10	U	10	U
4-Bromophenyl-phenylether	10	U	10	U	10	U	10	U	10	U
Hexachlorobenzene	10	U	10	U	10	U	10	U	10	U
Atrazine	10	R	10	R	10	R	10	R	10	R
Pentachlorophenol	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ
Phenanthrene	10	U	10	U	10	U	10	U	10	U
Anthracene	10	U	10	U	10	U	10	U	10	U
Carbazole	10	U	10	U	10	U	10	U	10	U
Di-n-butylphthalate	2	J	10	U	10	U	10	U	10	U
Fluoranthene	10	U	10	U	10	U	10	U	10	U
Pyrene	10	U	10	UJ	10	UJ	10	UJ	10	UJ
Butylbenzylphthalate	10	U	10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	10	U	10	U	10	U	10	U	10	U
Benzo(a)anthracene	10	U	10	U	10	U	10	U	10	U
Chrysene	10	U	10	U	10	U	10	U	10	U
bis(2-Ethylhexyl)phthalate	10	U	2	J	17		16		21	
Di-n-octylphthalate	10	U	10	U	10	U	10	U	10	U
Benzo(b)fluoranthene	10	U	10	U	10	U	10	U	10	U
Benzo(k)fluoranthene	10	U	10	U	10	U	10	U	10	U
Benzo(a)pyrene	10	U	10	U	10	U	10	U	10	U
Indeno(1,2,3-cd)pyrene	10	U	10	U	10	U	10	U	10	U
Dibenzo(a,h)anthracene	10	U	10	U	10	U	10	U	10	U
Benzo(g,h,i)perylene	10	U	10	U	10	U	10	U	10	U

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00E0
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00G0		E00G3		SBLKFX		SBLKGK			
Sampling Location :	G105		G107							
Matrix :	Water		Water		Water		Water			
Units :	ug/L		ug/L		ug/L		ug/L			
Date Sampled :	05/09/2001		05/09/2001							
Time Sampled :	08:30		10:20							
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	10	U	10	U	10	U	10	U		
Phenol	10	U	10	U	10	U	10	U		
bis-(2-Chloroethyl) ether	10	U	10	U	10	U	10	U		
2-Chlorophenol	10	U	10	U	10	U	10	U		
2-Methylphenol	10	U	10	U	10	U	10	U		
2,2'-oxybis(1-Chloropropane)	10	U	10	U	10	U	10	U		
Acetophenone	10	U	10	U	10	U	10	U		
4-Methylphenol	10	U	10	U	10	U	10	U		
N-Nitroso-di-n-propylamine	10	U	10	U	10	U	10	U		
Hexachloroethane	10	U	10	U	10	U	10	U		
Nitrobenzene	10	U	10	U	10	U	10	U		
Isophorone	10	U	10	U	10	U	10	U		
2-Nitrophenol	10	U	10	U	10	U	10	U		
2,4-Dimethylphenol	10	U	10	U	10	U	10	U		
bis(2-Chloroethoxy)methane	10	U	10	U	10	U	10	U		
2,4-Dichlorophenol	10	U	10	U	10	U	10	U		
Naphthalene	10	U	10	U	10	U	10	U		
4-Chloroaniline	10	U	10	U	10	U	10	U		
Hexachlorobutadiene	10	U	10	U	10	U	10	U		
Caprolactam	10	U	42		10	U	10	U		
4-Chloro-3-methylphenol	10	U	10	U	10	U	10	U		
2-Methylnaphthalene	10	U	10	U	10	U	10	U		
Hexachlorocyclopentadiene	10	UJ	10	UJ	10	UJ	10	U		
2,4,6-Trichlorophenol	10	U	10	U	10	U	10	U		
2,4,5-Trichlorophenol	25	U	25	U	25	U	25	U		
1,1'-Biphenyl	10	U	10	U	10	U	10	U		
2-Chloronaphthalene	10	U	10	U	10	U	10	U		
2-Nitroaniline	25	U	25	U	25	U	25	U		
Dimethylphthalate	10	U	10	U	10	U	10	U		
2,6-Dinitrotoluene	10	UJ	10	UJ	10	UJ	10	U		
Acenaphthylene	10	U	10	U	10	U	10	U		
3-Nitroaniline	25	U	25	U	25	U	25	U		
Acenaphthene	10	U	10	U	10	U	10	U		

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00E0
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00G0		E00G3		SBLKFX		SBLKGK			
Sampling Location :	G105		G107							
Matrix :	Water		Water		Water		Water			
Units :	ug/L		ug/L		ug/L		ug/L			
Date Sampled :	05/09/2001		05/09/2001							
Time Sampled :	08:30		10:20							
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	25	U	25	U	25	U	25	U		
4-Nitrophenol	25	U	25	U	25	U	25	U		
Dibenzofuran	10	U	10	U	10	U	10	U		
2,4-Dinitrotoluene	10	U	10	U	10	U	10	U		
Diethylphthalate	10	U	10	U	10	U	10	U		
Fluorene	10	U	10	U	10	U	10	U		
4-Chlorophenyl-phenyl ether	10	U	10	U	10	U	10	U		
4-Nitroaniline	25	UJ	25	UJ	25	UJ	25	U		
4,6-Dinitro-2-methylphenol	25	U	25	U	25	U	25	U		
N-Nitrosodiphenylamine	10	U	10	U	10	U	10	U		
4-Bromophenyl-phenylether	10	U	10	U	10	U	10	U		
Hexachlorobenzene	10	U	10	U	10	U	10	U		
Atrazine	10	R	10	R	10	R	10	R		
Pentachlorophenol	25	UJ	25	UJ	25	UJ	25	UJ		
Phenanthrene	10	U	10	U	10	U	10	U		
Anthracene	10	U	10	U	10	U	10	U		
Carbazole	10	U	10	U	10	U	10	U		
Di-n-butylphthalate	10	U	10	U	10	U	10	U		
Fluoranthene	10	U	10	U	10	U	10	U		
Pyrene	10	UJ	10	UJ	10	UJ	10	U		
Butylbenzylphthalate	10	U	10	U	10	U	10	U		
3,3'-Dichlorobenzidine	10	U	10	U	10	U	10	U		
Benzo(a)anthracene	10	U	10	U	10	U	10	U		
Chrysene	10	U	10	U	10	U	10	U		
bis(2-Ethylhexyl)phthalate	10	U	13		10	U	10	U		
Di-n-octylphthalate	10	U	10	U	10	U	10	U		
Benzo(b)fluoranthene	10	U	10	U	10	U	10	U		
Benzo(k)fluoranthene	10	U	10	U	10	U	10	U		
Benzo(a)pyrene	10	U	10	U	10	U	10	U		
Indeno(1,2,3-cd)pyrene	10	U	10	U	10	U	10	U		
Dibenzo(a,h)anthracene	10	U	10	U	10	U	10	U		
Benzo(g,h,i)perylene	10	U	10	U	10	U	10	U		

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00E0
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 10

Sample Number :	E00E0		E00E2		E00E3		E00E3MS		E00E3MSD	
Sampling Location :	G104		G106		G102		G102		G102	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001	
Time Sampled :	09:45		11:45		12:30		12:30		12:30	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
beta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
delta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-BHC (Lindane)	0.050	U	0.050	U	0.050	UJ	0.050	U	0.49	
Heptachlor	0.050	U	0.050	U	0.050	UJ	0.050	U	0.57	
Aldrin	0.050	U	0.050	U	0.050	UJ	0.050	U	0.51	
Heptachlor epoxide	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Endosulfan I	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Dieldrin	0.10	U	0.10	U	0.10	UJ	0.10	U	1.3	
4,4'-DDE	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin	0.10	U	0.10	U	0.10	UJ	0.10	U	1.4	
Endosulfan II	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDD	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan sulfate	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDT	0.10	U	0.10	U	0.10	UJ	0.10	U	1.2	
Methoxychlor	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Endrin ketone	0.10	U	0.10	U	0.10	U	0.10	U	0.11	
Endrin aldehyde	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
alpha-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-Chlordane	0.050	U	0.0090	J	0.050	U	0.050	U	0.050	U
Toxaphene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Aroclor-1016	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1221	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Aroclor-1232	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1242	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1248	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1260	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00E0
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00E4		E00F6		E00F7		E00F8		E00F9	
Sampling Location :	G101		G108		G109		G111		G113	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/09/2001	
Time Sampled :	15:15		15:35		17:30		17:45		08:10	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
beta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
delta-BHC	0.050	U	0.050	U	0.050	U	0.027	J	0.050	U
gamma-BHC (Lindane)	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Heptachlor	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Aldrin	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Heptachlor epoxide	0.012	J	0.010	J	0.050	U	0.050	U	0.050	U
Endosulfan I	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Dieldrin	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDE	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan II	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDD	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan sulfate	0.10	U	0.10	U	0.10	U	0.071	J	0.10	U
4,4'-DDT	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Methoxychlor	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Endrin ketone	0.10	U	0.10	U	0.10	U	0.031	J	0.10	U
Endrin aldehyde	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
alpha-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Toxaphene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Aroclor-1016	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1221	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Aroclor-1232	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1242	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1248	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1260	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00E0
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00G0		E00G3		PBLKGE					
Sampling Location :	G105		G107							
Matrix :	Water		Water		Water					
Units :	ug/L		ug/L		ug/L					
Date Sampled :	05/09/2001		05/09/2001							
Time Sampled :	08:30		10:20							
%Moisture :	N/A		N/A		N/A					
pH :										
Dilution Factor :	1.0		1.0		1.0					
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	U	0.050	U	0.050	U				
beta-BHC	0.050	U	0.050	U	0.050	U				
delta-BHC	0.050	U	0.050	U	0.050	U				
gamma-BHC (Lindane)	0.050	U	0.050	U	0.050	U				
Heptachlor	0.050	U	0.050	U	0.050	U				
Aldrin	0.050	U	0.050	U	0.050	U				
Heptachlor epoxide	0.050	U	0.050	U	0.050	U				
Endosulfan I	0.050	U	0.050	U	0.050	U				
Dieldrin	0.10	U	0.10	U	0.10	U				
4,4'-DDE	0.10	U	0.10	U	0.10	U				
Endrin	0.10	U	0.10	U	0.10	U				
Endosulfan II	0.10	U	0.10	U	0.10	U				
4,4'-DDD	0.10	U	0.10	U	0.10	U				
Endosulfan sulfate	0.10	U	0.10	U	0.10	U				
4,4'-DDT	0.10	U	0.10	U	0.10	U				
Methoxychlor	0.50	U	0.50	U	0.50	U				
Endrin ketone	0.10	U	0.10	U	0.10	U				
Endrin aldehyde	0.10	U	0.10	U	0.10	U				
alpha-Chlordane	0.050	U	0.050	U	0.050	U				
gamma-Chlordane	0.050	U	0.050	U	0.050	U				
Toxaphene	5.0	U	5.0	U	5.0	U				
Aroclor-1016	1.0	U	1.0	U	1.0	U				
Aroclor-1221	2.0	U	2.0	U	2.0	U				
Aroclor-1232	1.0	U	1.0	U	1.0	U				
Aroclor-1242	1.0	U	1.0	U	1.0	U				
Aroclor-1248	1.0	U	1.0	U	1.0	U				
Aroclor-1254	1.0	U	1.0	U	1.0	U				
Aroclor-1260	1.0	U	1.0	U	1.0	U				

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 5-29-01

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: American Cyanamide (IL)

CASE NUMBER: 29241 SDG NUMBER: E00E0

Number and Type of Samples: 10 (WATER)

Sample Numbers: E00E0, E00E2-4, E00F6-9, E00G0, E00G3

Laboratory: CompChem Hrs for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

LIBERTY ANALYTICAL
501 Madison Avenue
Cary, NC 27513

ORIGINAL

SAMPLE DELIVERY GROUP(SDG) TRAFFIC REPORT(TR) COVER SHEET

SDG Number E00E0

Laboratory Name COMPUCHEM

Laboratory Code LIBRTY

Contract No. 68W99070

Case No. 29241

Analysis Price $ 467.00

SDG turnaround 21 DAY

EPA Sample Numbers in SDG (Listed in Numerical order):

1)	E00E0	7)	E00F8	~~13)~~	~~19)~~
2)	E00E2	8)	E00F9	14)	~~20)~~
3)	E00E3	9)	E00G0	15)	21)
4)	E00E4	10)	E00G3	~~16)~~	22)
5)	E00F6	11)		17)	23)
6)	E00F7	~~12)~~		~~18)~~	~~24)~~

MB 6/10/01

E00E0	E00G3
First Sample in SDG	Last Sample in SDG
05/10/01	05/10/01
First Sample Receipt Date	Last Sample Receipt Date

Note: There are a maximum of 20 **field** samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Signature: Melissa Stern Date: 05/10/01

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 2924
DAS No:
SDG No: E00C7, E00E0 L

Date Shipped: 5/9/01 Carrier Name: FedEx Airbill: 4684285056 Shipped to: Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080	Date Received/Received by: 5/10/01 M. Stel Lab Contract No: 68W99070 Unit Price: $467.00 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Bruce Everetts Relinquished By: Bruce Everetts Relinquished By: Relinquished By:	Date / Time: 5-9/1400 Date / Time: Date / Time: 5/10/01, 8:45
			Received By: Received By: Received By: Contract

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00C7	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-43669 (Ice Only) (1)	X111	5/7/01 17:15	ME00C7	Good
E00C8	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-43671 (Ice Only) (1)	X112	5/7/01 15:15	ME00C8	
E00C9	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-43673 (1)	X116	5/7/01 17:00	ME00C9	
E00D4	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-43681 (1)	X120	5/7/01 16:20	ME00D4	
E00D5	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-43683 (1)	X121	5/7/01 15:50	ME00D5	
E00D6	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-43685 (1)	X122	5/7/01 15:35	ME00D6	
E00D1	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-43675 (1)	X117	5/7/01 16:45	ME00D1	
E00D2	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-43677 (1)	X118	5/7/01 16:30	ME00D2	
E00D3	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-43679 (1)	X119	5/7/01 16:30	ME00D3	
E00D7	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-43687 (1)	X123	5/7/01 16:10	ME00D7	
E00E0	Ground Water/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-43696, 5-43697 (Ice Only) (2)	G104	5/8/01 9:45	ME00E0	
E00E2	Ground Water/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-55040 (Ice Only), 5-55041 (2)	G106	5/8/01 11:45	ME00E2	
E00E3	Ground Water/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-97165 (Ice Only), 5-97166 (Ice Only), 5-97167 (Ice Only), 5-97168 (Ice Only), 5-97169 (Ice Only), 5-97170 (Ice Only) (6)	G102	5/8/01 12:30	ME00E3	

COPY

ORIGINAL DOCUMENTS INCLUDED IN CSF- E00C7

SIGNATURE M Stel DATE 5/10/01

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E00E7	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2°, 5°	Chain of Custody Seal Number: 26025 thru 26032
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?_ Shipment Iced?_

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-390575112-050901-0001

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 2924
DAS No:
SDG No: E00C7, E00E0 L

Date Shipped: 5/9/01 **Carrier Name:** FedEx **Airbill:** 4684285056 **Shipped to:** Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080	**Date Received/Received by:** 5/10/01 M. Stone **Lab Contract No:** 68W99070 **Unit Price:** $467.00 **Transfer To:** **Date Received/Received By:** **Lab Contract No:** **Price:**	**Sampler (Signature):** Bruce Everett **Relinquished By:** Laura L Range **Date / Time:** 5-9/1400 **Received By:** **Relinquished By:** **Date / Time:** **Received By:** **Relinquished By:** **Date / Time:** 5/10/01, 8:45 **Received By:** Courtney [illegible]

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00E4	Ground Water/ Bruce Everetts	L/G	PEST (21)	5-97176 (Ice Only) (1)	G101	5/8/01 15:15	ME00E4	Bottles has BNA + Pest.?
E00E6	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97180 (Ice Only) (1)	X102	5/8/01 13:40	ME00E6	Good
E00E7	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97182 (Ice Only) (1)	X103	5/8/01 13:15	ME00E7	
E00E8	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97184 (Ice Only) (1)	X104	5/8/01 14:00	ME00E8	
E00E9	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97186 (Ice Only) (1)	X105	5/8/01 13:00	ME00E9	
E00F0	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97188 (Ice Only) (1)	X106	5/8/01 16:45	ME00F0	
E00F1	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97190 (Ice Only) (1)	X107	5/8/01 18:00	ME00F1	
E00F2	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97192 (Ice Only) (1)	X108	5/8/01 17:45	ME00F2	
E00F3	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97194 (Ice Only) (1)	X109	5/8/01 17:10	ME00F3	
E00F4	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97196 (Ice Only) (1)	X110	5/8/01 17:10	ME00F4	
E00F5	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97198 (Ice Only) (1)	X124	5/8/01 17:45	ME00F5	SDG Final Sample
E00F6	Ground Water/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-97051 (Ice Only), 5-97052 (Ice Only) (2)	G108	5/8/01 15:35	ME00F6	
E00F7	Ground Water/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-97056 (Ice Only), 5-97057 (Ice Only) (2)	G109	5/8/01 17:30	ME00F7	
E00F8	Ground Water/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-97061 (Ice Only), 5-97062 (Ice Only) (2)	G111	5/8/01 17:45	ME00F8	
E00F9	Ground Water/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-97066 (Ice Only), 5-97067 (Ice Only) (2)	G113	5/9/01 8:10	ME00F9	

COPY
ORIGINAL DOCUMENTS INCLUDED IN CSF- E00C7
SIGNATURE M Stone DATE 5/10/01

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E00E7	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2°, 5°	Chain of Custody Seal Number: 26025 thru 26032
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ___ Shipment Iced? ___

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-390575112-050901-0001

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 2924
DAS No:
SDG No: E00G1, E00E0 **L**

Date Shipped: 5/9/01 Carrier Name: FedEx Airbill: 4684285056 Shipped to: Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080	Date Received/Received by: 5/10/01 M Stec Lab Contract No: 68W99070 Unit Price: $467 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Bruce Everetts Relinquished By: [signature] Date / Time: 5-9 / 1400 Received By: Relinquished By: Date / Time: Received By: Relinquished By: Date / Time: 5/10/01, 8:45 Received By: [signature]

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00G0	Ground Water/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-97071 (Ice Only), 5-97072 (Ice Only) (2)	G105	5/9/01 8:30	ME00G0	Good
E00G1	Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97075 (Ice Only) (1)	X201	5/9/01 9:30	ME00G1	
E00G2	Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97077 (Ice Only) (1)	X202	5/9/01 9:45	ME00G2	
E00G3	Ground Water/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-97080 (Ice Only), 5-97081 (Ice Only) (2)	G107	5/9/01 10:20	ME00G3	SDG Final Sample
E00G4	Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97084 (Ice Only) (1)	X203	5/9/01 11:45	ME00G4	
E00G5	Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97086 (Ice Only) (1)	X204	5/9/01 11:30	ME00G5	
E00G6	Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97088 (Ice Only) (1)	X205	5/9/01 12:15	ME00G6	
E00G7	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97090 (Ice Only) (1)	X206	5/9/01 12:30	ME00G7	
E00G8	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97092 (Ice Only) (1)	X101	5/9/01 12:45	ME00G8	SDG Final Sample

COPY
ORIGINAL DOCUMENTS INCLUDED IN CSF- E00C7
SIGNATURE M Stec DATE 5/10/01

Shipment for Case Complete?	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E00E7		2°, 5°	26025 thru 26032
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Shipment Iced?

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-390575112-050901-0001

MAY 2 9 2001

COMPUCHEM
A division of Liberty Analytical Corporation
501 Madison Ave.
Cary, NC 27513

SDG NARRATIVE

CASE #29241
SDG #E00E0
CONTRACT #68W99070

SAMPLE IDENTIFICATIONS:

E00E0 E00E2 E00E3 E00E4 E00F6 E00F7 E00F8 E00F9 E00G0 E00G3

The ten (10) water samples listed above were received intact, properly refrigerated, with proper documentation, in a sealed shipping container, on May 10, 2001. The temperature of the samples at the time of receipt was 2 to 5°C. The samples were scheduled for the requested analyses of the semivolatile and pesticide/PCB fractions. These samples were analyzed following the current EPA Contract for the Laboratory Program, Document number OLM04.2.

All pertinent Quality Assurance notices are included in the narrative section and all pertinent Laboratory notices are included in the sample data sections.

SEMIVOLATILE
The semivolatile fractions were extracted and analyzed within the required holding time. One to two Target Compound List (TCL) analytes were detected with concentrations above the Contract Required Quantitation Limit (CRQL) in four of the samples. These analytes were bis(2-ethylhexyl)phthalate and caprolactam.

One to fourteen Tentatively Identified Compounds (TIC) were detected in the samples. Many of these TICs were assessed as unknowns, trichloropropene, methoxyethoxyethanol, carboxylic acids, amides, phenols, alcohols and cyclohexanes. Other TICs were detected and assessed as unknown alkanes in some of the samples. The TICs that were characterized as alkanes have been summarized on the Alkane Narrative Report that is located in the narrative section of the data package. The TIC spectra for the alkanes are located in the data section for the individual samples.

QC SUMMARY
All decafluorotriphenylphosphine (DFTPP) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

The surrogates met recovery criteria for the semivolatile fractions. The internal standards met area response and retention time criteria.

E00E3 was used as the original to prepare the duplicate matrix spikes as requested. The duplicate matrix spikes met accuracy and precision criteria, with some exceptions. The recoveries of pentachlorophenol were flagged as outliers in the MS and MSD.

The associated blanks met Quality Control criteria.

In the analyses of the Initial and Continuing Calibration standards and samples E00E3, E00G0 and E00G3, manual quantitations were performed. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature:

Patricia B. Hopkins

Patricia B. Hopkins
Data Analyst II
24 May 2001

Note: This report is paginated for reference and accountability in numerical sequence.

ALKANE NARRATIVE REPORT
Report date : 05/25/2001
SDG: E00E0

Client Sample ID: E00E3 Lab Sample ID: E00E0-3 File ID: E00E0-3A70

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	10.16	2.73	J
Branched Alkane	10.48	2.86	J
Branched Alkane	11.09	2.76	J
Cyclic Alkane	11.22	3.96	J
Straight-Chain Alkane	11.43	16.23	J
Straight-Chain Alkane	11.68	4.07	J
Cyclic Alkane	11.85	2.46	J
Straight-Chain Alkane	12.02	16.85	J
Straight-Chain Alkane	12.24	3.99	J
Branched Alkane	12.34	3.11	J
Cyclic Alkane	12.44	3.75	J
Straight-Chain Alkane	12.57	18.75	J
Straight-Chain Alkane	12.78	5.34	J
Unknown Alkane	12.91	2.28	J
Unknown Alkane	12.96	3.86	J
Straight-Chain Alkane	13.10	8.79	J
Straight-Chain Alkane	13.60	2.54	J

Client Sample ID: E00F7 Lab Sample ID: E00E0-6 File ID: E00E0-6A70

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	10.80	3.89	J
Straight-Chain Alkane	11.43	6.30	J
Straight-Chain Alkane	12.00	6.04	J
Straight-Chain Alkane	12.58	3.21	J

Client Sample ID: E00F8 Lab Sample ID: E00E0-7 File ID: E00E0-7A70

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	11.42	2.17	J
Straight-Chain Alkane	12.01	2.61	J

Client Sample ID: E00F9 Lab Sample ID: E00E0-8 File ID: E00E0-8A70

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	17.08	2.51	J
Straight-Chain Alkane	17.83	3.54	J
Straight-Chain Alkane	18.72	4.64	J
Straight-Chain Alkane	19.75	4.73	J
Straight-Chain Alkane	20.51	4.14	J
Straight-Chain Alkane	21.27	3.31	J

Client Sample ID: E00E4 Lab Sample ID: E00E0-4 File ID: E00E0-4RA66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	12.19	3.77	J
Straight-Chain Alkane	12.86	4.71	J
Straight-Chain Alkane	13.44	4.89	J
Straight-Chain Alkane	14.03	8.05	J

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

CASE #29241
SDG #E00e0
CONTRACT #68W99070

SAMPLE IDENTIFICATIONS: E00E0, E00E2, E00E3, E00E4, E00F6, E00F7, E00F8, E00F9, E00G0, E00G3

The ten water samples listed above were scheduled for the requested analyses of the pesticide fractions.

Extraction and analysis holding time requirements were met for all of these samples. No target compounds were confirmed above the reporting limits in the samples.

The surrogate, Tetrachloro-m-xylene, exceeded method advisory criteria on one column for sample E00F8. The surrogate was inadvertently double spiked in the matrix spike duplicate and exceeds the advisory limits. All remaining surrogate recoveries were within criteria. All surrogates met retention time criteria in the analyses of these samples. The associated method blank met all quality control criteria. The associated duplicate matrix spikes were performed on sample E00E3. The matrix spike was double spiked with surrogate rather than surrogate and the spiking solution therefore the compounds had zero recovery. The matrix spike was not re-extracted due to the holding time being exceeded. All compounds were within method limits in the matrix spike duplicate.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted electronically has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Katrina L. Travis
GC/HPLC Manager
May 25, 2001

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL). or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

DATA REPORTING QUALIFIERS (continued)

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and all reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLKFX	83	93	87	75	70	70	85	75	0
02	E00E0	95	96	109	70	79	78	98	78	0
03	E00E2	69	64	92	60	61	73	76	68	0
04	E00E3	74	51	60	57	50	93	71	52	0
05	E00E3MS	86	74	77	68	68	90	72	68	0
06	E00E3MSD	90	66	85	67	67	97	71	67	0
07	E00F6	92	95	98	65	80	78	97	77	0
08	E00F7	96	61	84	69	63	115	83	60	0
09	E00F8	78	77	96	60	65	66	84	62	0
10	E00F9	79	65	87	49	69	89	88	70	0
11	E00G0	95	65	87	70	75	108	83	72	0
12	E00G3	80	61	80	52	59	105	75	60	0
13	SBLKGK	78	70	63	65	63	73	72	64	0
14	E00E4	65	62	71	66	61	74	71	52	0
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix Spike - EPA Sample No.: E00E3

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	75.00	0.00	59.79	80	12-110
2-Chlorophenol	75.00	0.00	47.64	64	27-123
N-Nitroso-di-n-prop.(1)	50.00	0.00	45.13	90	41-116
4-Chloro-3-methylphenol	75.00	0.00	65.08	87	23- 97
Acenaphthene	50.00	0.00	44.83	90	46-118
4-Nitrophenol	75.00	0.00	47.09	63	10- 80
2,4-Dinitrotoluene	50.00	0.00	37.48	75	24- 96
Pentachlorophenol	75.00	0.00	93.71	125*	9-103
Pyrene	50.00	0.00	35.21	70	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	75.00	60.09	80	0	42	12-110
2-Chlorophenol	75.00	50.43	67	5	40	27-123
N-Nitroso-di-n-prop.(1)	50.00	46.23	92	2	38	41-116
4-Chloro-3-methylphenol	75.00	64.81	86	1	42	23- 97
Acenaphthene	50.00	45.26	91	1	31	46-118
4-Nitrophenol	75.00	48.91	65	3	50	10- 80
2,4-Dinitrotoluene	50.00	37.88	76	1	38	24- 96
Pentachlorophenol	75.00	101.3	135*	8	50	9-103
Pyrene	50.00	44.72	89	24	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 9 outside limits
Spike Recovery: 2 out of 18 outside limits

COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKFX

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Lab File ID: WG10200-1A70 Lab Sample ID: WG10200-1

Instrument ID: 5972HP70 Date Extracted: 05/14/01

Matrix: (soil/water) WATER Date Analyzed: 05/16/01

Level:(low/med) LOW Time Analyzed: 1136

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E00E0	E00E0-1	E00E0-1A70	05/16/01
02	E00E2	E00E0-2	E00E0-2A70	05/16/01
03	E00E3	E00E0-3	E00E0-3A70	05/16/01
04	E00E3MS	WG10200-2	WG10200-2A70	05/16/01
05	E00E3MSD	WG10200-3	WG10200-3A70	05/16/01
06	E00F6	E00E0-5	E00E0-5A70	05/16/01
07	E00F7	E00E0-6	E00E0-6A70	05/16/01
08	E00F8	E00E0-7	E00E0-7A70	05/16/01
09	E00F9	E00E0-8	E00E0-8A70	05/16/01
10	E00G0	E00E0-9	E00E0-9A70	05/16/01
11	E00G3	E00E0-10	E00E0-10A70	05/16/01
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COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKGK

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00EC

Lab File ID: WG10245-1A66 Lab Sample ID: WG10245-1

Instrument ID: 5972HP66 Date Extracted: 05/15/01

Matrix: (soil/water) WATER Date Analyzed: 05/16/01

Level:(low/med) LOW Time Analyzed: 2057

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E00E4	E00E0-4	E00E0-4RA66	05/17/01
02				
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COMMENTS:

FORM IV SV OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E0

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-1A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E0

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-1A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	3	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00E0

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-1A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 111-77-3	ETHANOL, 2-(2-METHOXYETHOXY)	4.53	29	NJB
2. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	4.61	6	NJ
3.	UNKNOWN (BC)	5.29	3	JB
4.	UNKNOWN	14.06	5	J
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FORM I SV-TIC OLM04.2

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E2

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-2A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E2

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-2A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00E2

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-2A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 8

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 111-77-3	ETHANOL, 2-(2-METHOXYETHOXY)	4.51	13	NJB
2.	UNKNOWN CARBOXYLIC ACID	6.94	2	J
3. 112-05-0	NONANOIC ACID	7.76	2	NJ
4. 143-07-7	DODECANOIC ACID	9.94	5	NJ
5. 134-62-3	DIETHYLTOLUAMIDE	10.14	3	NJ
6.	UNKNOWN	14.06	11	J
7.	UNKNOWN	22.34	2	J
8.	UNKNOWN	24.46	14	J
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FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E3

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-3A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E3

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-3A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00E3

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-3A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 14 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 111-77-3	ETHANOL, 2-(2-METHOXYETHOXY)	4.55	59	NJB
2.	UNKNOWN	5.26	2	J
3.	UNKNOWN (BC)	5.29	11	JB
4.	UNKNOWN (BC)	5.39	3	JB
5. 640-61-9	BENZENESULFONAMIDE, N,4-DIME	10.82	39	NJ
6.	UNKNOWN	11.80	2	J
7.	UNKNOWN	11.97	3	J
8.	UNKNOWN	12.07	3	J
9.	UNKNOWN	12.68	6	J
10.	UNKNOWN	14.06	9	J
11. 85-60-9	PHENOL, 4,4'-BUTYLIDENEBIS[2	16.05	10	NJ
12.	UNKNOWN	22.81	5	J
13.	UNKNOWN	24.11	8	J
14.	UNKNOWN	24.47	5	J
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FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E3MS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: WG10200-2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WG10200-2A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	60	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	48	
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	45	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	65	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	45	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E3MS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: WG10200-2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WG10200-2A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	47	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	37	
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	94	E
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	35	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E3MSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: WG10200-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WG10200-3A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	60	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	50	
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	46	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	65	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	45	

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E3MSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: WG10200-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WG10200-3A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	49	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	38	
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	100	E
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	45	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E4

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-4RA66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/15/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	2	J
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E4

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-4RA66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/15/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	2	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00E4

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-4RA66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/15/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 111-77-3	ETHANOL, 2-(2-METHOXYETHOXY)	4.93	10	NJB
2. 934-34-9	2(3H)-BENZOTHIAZOLONE	12.12	2	NJ
3.	UNKNOWN	12.24	2	J
4. 4536-30-5	ETHANOL, 2-(DODECYLOXY)-	12.37	2	NJ
5.	UNKNOWN	15.65	34	J
6. 85-60-9	PHENOL, 4,4'-BUTYLIDENEBIS[2	17.88	3	NJ
7.	UNKNOWN	18.61	4	J
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FORM I SV-TIC OLM04.2

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F6

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-5A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F6

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-5A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00F6

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-5A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 111-77-3	ETHANOL, 2-(2-METHOXYETHOXY)	4.53	5	NJB
2.				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F7

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-6

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-6A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F7

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-6

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-6A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	17	
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00F7

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-6

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-6A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 111-77-3	ETHANOL, 2-(2-METHOXYETHOXY)	4.52	11	NJB
2.	TRICHLOROPROPENE (BC)	4.62	2	JB
3.	UNKNOWN	10.84	3	J
4. 544-63-8	TETRADECANOIC ACID	11.21	3	NJ
5. 57-10-3	HEXADECANOIC ACID	12.39	13	NJ
6.	UNKNOWN	14.05	6	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F8

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-7

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-7A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	17	
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F8

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-7

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-7A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	16	
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00F8

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-7

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-7A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 14

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 111-77-3	ETHANOL, 2-(2-METHOXYETHOXY)	4.53	5	NJB
2.	UNKNOWN CARBOXYLIC ACID	5.20	10	J
3.	UNKNOWN (BC)	5.30	2	JB
4.	UNKNOWN ALCOHOL	5.54	5	J
5. 1122-82-3	CYCLOHEXANE, ISOTHIOCYANATO-	7.52	2	NJ
6.	UNKNOWN CARBOXYLIC ACID	7.81	3	J
7.	UNKNOWN	8.28	4	J
8.	UNKNOWN	9.73	3	J
9. 143-07-7	DODECANOIC ACID	9.93	2	NJ
10.	UNKNOWN	10.95	2	J
11.	UNKNOWN	12.57	6	J
12.	UNKNOWN	14.01	2	J
13.	UNKNOWN	14.06	12	J
14.	UNKNOWN	22.81	6	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F9

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-8

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-8A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F9

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-8

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-8A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	21	
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00F9

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-8

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-8A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 111-77-3	ETHANOL, 2-(2-METHOXYETHOXY)	4.53	7	NJB
2. 640-61-9	BENZENESULFONAMIDE, N,4-DIME	10.80	9	NJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G0

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-9

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-9A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G0

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-9

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-9A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00G0

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-9

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-9A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 111-77-3	ETHANOL, 2-(2-METHOXYETHOXY)	4.60	82	NJB
2.	UNKNOWN (BC)	5.41	3	JB
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G3

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-10

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-10A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	42	
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G3

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-10

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-10A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	13	
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00G3

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-10

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00E0-10A70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 111-77-3	ETHANOL, 2-(2-METHOXYETHOXY)	4.52	11	NJB
2.	UNKNOWN	6.22	3	J
3.	UNKNOWN	6.64	2	J
4.	UNKNOWN	6.80	3	J
5.	UNKNOWN	7.10	3	J
6.	UNKNOWN	14.06	5	J
7.	UNKNOWN	14.16	6	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKFX

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: WG10200-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WG10200-1A70

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKFX

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: WG10200-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WG10200-1A70

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKFX

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: WG10200-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WG10200-1A70

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/14/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 111-77-3	ETHANOL, 2-(2-METHOXYETHOXY)	4.54	56	NJ
2.	TRICHLOROPROPENE (BC)	4.61	4	J
3.	UNKNOWN (BC)	5.30	7	J
4.	UNKNOWN (BC)	5.41	2	J
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FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKGK

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: WG10245-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WG10245-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/15/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKGK

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: WG10245-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WG10245-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/15/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKGK

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: WG10245-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WG10245-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/15/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 111-77-3	ETHANOL, 2-(2-METHOXYETHOXY)	4.95	5	NJ
2. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	5.05	2	NJ
3. 301-02-0	9-OCTADECENAMIDE, (Z)-	16.11	2	NJ
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FORM I SV-TIC OLM04.2

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

GC Column(1): CLPEST ID: 0.53(mm) GC Column(2): CLPEST2 ID:0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKGE	80	80	75	65			0
02	E00E3MS	290*	230*	240*	200*			4
03	E00E3MSD	125	150	90	85			0
04	E00E0	115	105	105	90			0
05	E00E2	115	110	115	100			0
06	E00E3	115	100	130	110			0
07	E00E4	140	125	140	95			0
08	E00F6	100	110	105	85			0
09	E00F7	135	80	115	95			0
10	E00F8	300*	90	105	100			1
11	E00F9	115	115	120	105			0
12	E00G0	120	110	100	90			0
13	E00G3	150	100	105	90			0
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29								
30								

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix Spike - EPA Sample No.: E00E3

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	0.50	0.0	0.0	0*	56-123
Heptachlor	0.50	0.0	0.0	0*	40-131
Aldrin	0.50	0.0	0.0	0*	40-120
Dieldrin	1.0	0.0	0.0	0*	52-126
Endrin	1.0	0.0	0.0	0*	56-121
4,4'-DDT	1.0	0.0	0.0	0*	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.50	0.49	98		15	56-123
Heptachlor	0.50	0.57	114		20	40-131
Aldrin	0.50	0.51	102		22	40-120
Dieldrin	1.0	1.3	130*		18	52-126
Endrin	1.0	1.4	140*		21	56-121
4,4'-DDT	1.0	1.2	120		27	38-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 8 out of 12 outside limits

COMMENTS:

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKGE

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Lab Sample ID: WG10226-1 Lab File ID: _____

Matrix (soil/water) WATER Extraction:(Type) SEPF

Sulfur Cleanup (Y/N) N Date Extracted: 05/15/01

Date Analyzed (1): 05/21/01 Date Analyzed (2): 05/21/01

Time Analyzed (1): 1600 Time Analyzed (2): 1600

Instrument ID (1): TRACEGC80 Instrument ID (2): TRACEGC81

GC Column (1): CLPEST ID: 0.53(mm) GC Column (2): CLPEST2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	E00E3MS	WG10226-4	05/21/01	05/21/01
02	E00E3MSD	WG10226-5	05/21/01	05/21/01
03	E00E0	E00E0-1	05/21/01	05/21/01
04	E00E2	E00E0-2	05/21/01	05/21/01
05	E00E3	E00E0-3	05/21/01	05/21/01
06	E00E4	E00E0-4	05/21/01	05/21/01
07	E00F6	E00E0-5	05/21/01	05/21/01
08	E00F7	E00E0-6	05/21/01	05/21/01
09	E00F8	E00E0-7	05/21/01	05/21/01
10	E00F9	E00E0-8	05/21/01	05/21/01
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COMMENTS: _____

FORM IV PEST OLM04.2

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E0

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____ Date Received: 05/10/01

Extraction: (Type) SEPF Date Extracted: 05/15/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/21/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E2

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____ Date Received: 05/10/01

Extraction: (Type) SEPF Date Extracted: 05/15/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/21/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.0092	JP
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E3

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____ Date Received: 05/10/01

Extraction: (Type) SEPF Date Extracted: 05/15/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/21/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E3MS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: WG10226-4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____ Date Received: 05/10/01

Extraction: (Type) SEPF Date Extracted: 05/15/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/21/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E3MSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: WG10226-5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____ Date Received: 05/10/01

Extraction: (Type) SEPF Date Extracted: 05/15/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/21/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.49	P
76-44-8	Heptachlor	0.57	P
309-00-2	Aldrin	0.51	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	1.3	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	1.4	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	1.2	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.11	P
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E4

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____ Date Received: 05/10/01

Extraction: (Type) SEPF Date Extracted: 05/15/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/21/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.012	JP
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F6

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____ Date Received: 05/10/01

Extraction: (Type) SEPF Date Extracted: 05/15/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/21/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.0098	JP
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F7

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-6

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____ Date Received: 05/10/01

Extraction: (Type) SEPF Date Extracted: 05/15/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/21/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F8

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-7

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____ Date Received: 05/10/01

Extraction: (Type) SEPF Date Extracted: 05/15/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/21/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.027	J
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.071	J
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.031	JP
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F9

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-8

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____ Date Received: 05/10/01

Extraction: (Type) SEPF Date Extracted: 05/15/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/21/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G0

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-9

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____ Date Received: 05/10/01

Extraction: (Type) SEPF Date Extracted: 05/15/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/21/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G3

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: E00E0-10

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____ Date Received: 05/10/01

Extraction: (Type) SEPF Date Extracted: 05/15/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/21/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

538A

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKGE

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00E0

Matrix: (soil/water) WATER Lab Sample ID: WG10226-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 05/15/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/21/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E00E0 CERCLIS No: ILD006752264

Case No: 29241 Site Name/Location: American Cyanamide

Contractor or EPA Lab: CompuChem Data User: IEPA

No. of Samples: 10 Date Sampled or Date Received: 5-29-01

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

____ ____ ____ ____
____ ____ ____ ____

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 10 No. of samples received: 10

Received by: Ena M. Dixon/ESAT Date: 5-29-01

Received by LSSS: Ena M. Dixon/ESAT Date: 5-29-01

Review started: ____ Reviewer Signature: ____

Total time spent on review: ____ Date review completed: ____

Copied by: Ena M. Dixon/ESAT Date: 6-6-01

Mailed to user by: Ena M. Dixon/ESAT Date: 6-6-01

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

____
____

Received by Data Mgmt. Coordinator for Files. Date: ____

JUN 04 2001

Regional Transmittal Form

Res. VOC, SVOC, Pest

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 5-23-01

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: American Cyanamide (IL)

CASE NUMBER: 29241 SDG NUMBER: E00B7

Number and Type of Samples: 7 (Water)

Sample Numbers: E00B7-8, E00C2-6

Laboratory: MITKEM Hrs for Review:

Following are our findings:

RECEIVED
JUN 07 2001
IEPA-BOL-FSRS

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

Laboratory: **MITKEM** Case: **29241**
Site: **AMERICAN CYANAMIDE (IL)** SDG: **E00B7**

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Seven (7) preserved water samples, numbered E00B7, E00B8 and E00C2 through E00C6 were collected May 7, 2001. The lab received the samples May 8 - 9, 2001. Six (6) samples were analyzed for the full list of organic analytes. One (1) sample, E00C6 was analyzed for only the volatile list of organic analytes. All samples were analyzed according to CLP SOW OLC02.1.

VLCS1S is the volatile laboratory control sample. SLCS1J is the semivolatile laboratory control sample. PLCS01 is the pesticide laboratory control sample.

Sample E00C6 is a trip blank. No samples were identified as field blanks. Sample E00B8 is a field duplicate of sample E00B7.

The volatile analyses were performed within the technical holding time of fourteen (14) days after sample collection; therefore, the results are acceptable. The semivolatile and pesticide sample extractions were performed within seven (7) days and all analyses were performed within forty (40) days after extraction; therefore, the results are acceptable.

Reviewed by: A.C. Harvey/IITRI-ESAT
Date: June 4, 2001

Laboratory: **MITKEM** Case: **29241**
Site: **AMERICAN CYANAMIDE (IL)** SDG: **E00B7**

1. HOLDING TIME

Seven (7) preserved water samples, numbered E00B7, E00B8 and E00C2 through E00C6 were collected May 7, 2001. The lab received the samples May 8 - 9, 2001. Six (6) samples were analyzed for the full list of organic analytes. One (1) sample, E00C6 was analyzed for only the volatile list of organic analytes. All samples were analyzed according to CLP SOW OLC02.1.

The volatile analyses were performed within the technical holding time of fourteen (14) days after sample collection; therefore, the results are acceptable. The semivolatile and pesticide sample extractions were performed within seven (7) days and all analyses were performed within forty (40) days after extraction; therefore, the results are acceptable.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

VOA: All GC/MS tuning complied with the mass list and ion abundance criteria for BFB, and all samples were analyzed within the twelve (12) hour periods for instrument performance checks; therefore, the results are acceptable.

SVOA: All GC/MS tuning complied with the mass list and ion abundance criteria for DFTPP, and all samples were analyzed within the twelve (12) hour periods for instrument performance checks; therefore, the results are acceptable.

Pesticide/PCB: GC Resolution Check Mixtures met the 60% resolution criteria. Endrin and DDT degradation checks using PEM Mix on the CLPPEST1 and CLPPEST2 columns were < 20%; therefore, the results are acceptable.

3. CALIBRATION

Initial and continuing calibrations of the Volatile, Semivolatile and Pest/PCB standards were evaluated for the target compound lists and outliers are recorded on the forms included as part of this narrative.

4. BLANKS

VOA: VBLK1S is the low level water volatile method blank. VBLK1S contained no target compounds and no TICs. VHBLK1S is the water storage blank, it contained no target compounds and no TICs. The volatile method blank summary (FORM IV LCV) lists the samples associated with the blank.

Laboratory: **MITKEM** Case: **29241**
Site: **AMERICAN CYANAMIDE (IL)** SDG: **E00B7**

SVOA: SBLK1J is the low level water semivolatile method blank. SBLK1J contained no target compounds and no TICs. The semivolatile method blank summary (FORM IV LCSV) lists the samples associated with the blank.

Pesticide/PCB: PBLK01 is the pesticide water method blank. PBLK01 contained no target compounds. The pesticide method blank summary (FORM IV LCP) lists the samples associated with the blank.

There were three (3) pesticide instrument method blanks, none of which contained any target compounds. No samples were associated with the instrument blanks.

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

VOA: The volatile system monitoring compound recoveries were within the QC limits for all samples; therefore, the results are acceptable.

SVOA: The semivolatile surrogate recoveries were within the QC limits for all samples; therefore, the results are acceptable.

Pesticide/PCB: The pesticide surrogate recoveries were within the QC limits for all samples; therefore, the results are acceptable.

6. LABORATORY CONTROL SAMPLES

VLCS1S is the volatile laboratory control sample. SLCS1J is the semivolatile laboratory control sample. PLCS01 is the pesticide laboratory control sample.

VOA: The sample ID for the VOA lab control spike sample is VLCS1S. All compound recoveries were within the QC limits; therefore, the results are acceptable.

SVOA: The sample ID for the SVOA lab control spike is SLCS1J. All compound recoveries were within the QC limits; therefore, the results are acceptable.

Pesticide/PCB: The sample ID for the pesticide/PCB lab control spike is PLCS01. All compound recoveries were within the QC limits; therefore, the results are acceptable.

7. FIELD BLANK AND FIELD DUPLICATE

Sample E00C6 is a trip blank. E00C6 contained no target analytes and no TICs.

Reviewed by: A.C. Harvey/IITRI-ESAT
Date: June 4, 2001

Laboratory: **MITKEM** Case: **29241**
Site: **AMERICAN CYANAMIDE (IL)** SDG: **E00B7**

No samples were identified as field blanks.

Sample E00B8 is a field duplicate of sample E00B7. Both samples contained no volatile target analytes and no VOA TICs; no semivolatile target analytes and two (2) SV TICs; and no pesticide/PCB TCLs.

8. INTERNAL STANDARDS

VOA: The internal standards' retention times and area counts for the VOA fraction were within the required QC limits; therefore, the results are acceptable.

SVOA: The internal standards' retention times and area counts for the SVOA fraction were within the required QC limits; therefore, the results are acceptable.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

All samples were waters and no dilutions were run; therefore, all VOA, SVOA and Pesticide target CRQLs were properly reported. All target compound quantitations were properly reported.

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

The VOA fraction for all water samples had a pH of < 2.

Reviewed by: A.C. Harvey/IITRI-ESAT
Date: June 4, 2001

LOW CONCENTRATION WATER
VOLATILE TCL COMPOUNDS
Page 1 of 2

CASE\SAS#: 29241					CONTRACT LAB: MITKEM											
Instrument: V1		Heated Purge: Y / N			SITE NAME: American Cyanamide											
Column: DB-624		Initial Calibration			Continuing Cal			Continuing Cal			Continuing Cal			Continuing Cal		
Date/Time:		05-06-01/0901			05-10-01/1615											
TCL Analytes		RRF	%RSD	Q	RRF	%D	Q	RRF	%D	Q	RRF	%D	Q	RRF	%D	Q
Chloromethane	0.05															
Bromomethane	0.05															
Vinyl Chloride	0.05															
Chloroethane	0.05															
Methylene Chloride	0.05															
Acetone	0.05	0.024		J/R	0.025		J/R									
Carbon Disulfide	0.05															
1,1-Dichloroethene	0.05															
1,1-Dichloroethane	0.05															
cis-1,2-Dichloroethene	0.05															
trans-1,2-Dichloroethene	0.05															
Chloroform	0.05															
1,2-Dichloroethane	0.05															
2-Butanone	0.05	0.031		J/R	0.034		J/R									
Bromochloromethane	0.05															
1,1,1-Trichloroethane	0.05															
Carbon Tetrachloride	0.05															
Bromodichloromethane	0.05															
1,2-Dichloropropane	0.05															
cis-1,3-Dichloropropene	0.05															
Trichloroethene	0.05															
Dibromochloromethane	0.05															
1,1,2-Trichloroethane	0.05															
Benzene	0.05															
trans-1,3-Dichloropropene	0.05															
Bromoform	0.05															
SAMPLES AFFECTED:					VBLK1S											
					VLCS1S											
					E00B7-8											
					E00C2-6											
					VHBLK1S											
Reviewer's Initial/Date: aat/6-1-01																

CASE\SAS#: 29241					CONTRACT LAB: MITKEM											
Instrument: V1		Heated Purge: Y / N			SITE NAME: American Cyanammide											
Column: DB-624		Initial Calibration			Continuing Cal			Continuing Cal			Continuing Cal			Continuing Cal		
Date/Time:		05-06-01/0901			05-10-01/1615											
TCL Analytes		RRF	%RSD	Q	RRF	%D	Q	RRF	%D	Q	RRF	%D	Q	RRF	%D	Q
4-Methyl-2-Pentanone	0.05															
2-Hexanone	0.05															
Tetrachloroethene	0.05															
1,1,2,2-Tetrachloroethane	0.05															
1,2-Dibromoethane	0.05															
Toluene	0.05															
Chlorobenzene	0.05															
Ethylbenzene	0.05															
Xylene (total)	0.05															
Styrene	0.05															
1,3-Dichlorobenzene	0.05															
1,4-Dichlorobenzene	0.05															
1,2-Dichlorobenzene	0.05															
1,2-Dibromo-3-hloropropane	0.05	0.031		J/R	0.033		J/R									
1,2,4-Trichlorobenzene	0.05															
SURROGATE																
Bromofluorobenzene	0.05															

%RSD ± 30% %D ± 30% : National Functional Guidelines, 10/99

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

Q = These flags should be applied to the analytes on the sample data sheets.
# = Minimum Relative Response Factor for Data Review Purposes

Reviewer's Init/Date: AOH/6-1-01

LOW CONCENTRATION WATER
SEMIVOLATILE TCL COMPOUNDS
Page 1 of 3

CASE/SAS#: 29241					CONTRACT LAB: MITKEM											
Instrument S1					SITE NAME: American Cyanamide											
Column:		Initial Calibration			Continuing Cal			Continuing Cal			Continuing Cal			Continuing Cal		
Date/Time:		05-05-01 / 0355			05-21-01 / 1200											
TCL Analytes		RRF	%RSD	Q	RRF	%D	Q	RRF	%D	Q	RRF	%D	Q	RRF	%D	Q
Phenol	0.05															
bis(2-chloroethyl) Ether	0.05	1.545			1.094	29.2	J/UJ									
2-Chlorophenol	0.05															
2-Methylphenol	0.05															
2,2'-oxybis(1-chloropropane)	0.05	2.886			1.893	34.4	J/UJ									
4-Methylphenol	0.05															
N-Nitroso-di-n-propylamine	0.05															
Hexachloroethane	0.05															
Nitrobenzene	0.05															
Isophorone	0.05															
Nitrophenol	0.05															
2,4-Dimethylphenol	0.05															
bis-(2-chloroethoxyl)methane	0.05															
2,4-Dichlorophenol	0.05															
Naphthalene	0.05															
4-Chloroaniline	0.05	0.460			0.323	29.8	J/UJ									
Hexachlorobutadiene	0.05															
4-Chloro-3-methylphenol	0.05															
2-Methylnaphthalene	0.05															

SAMPLES AFFECTED:

SBLK1J
SLCS1J
E00B7-8
E00C2-5

Reviewer's Init/Date: ACH / 6-1-01

LOW CONCENTRATION WATER
SEMIVOLATILE TCL COMPOUNDS
Page 2 of 3

CASE/SAS#: 29241					CONTRACT LAB: MITKEM											
Instrument S1					SITE NAME: American Cyanamide											
Column:		Initial Calibration			Continuing Cal			Continuing Cal			Continuing Cal			Continuing Cal		
Date/Time:		05-05-01/0355														
TCL Analytes		RRF	%RSD	Q	RRF	%D	Q	RRF	%D	Q	RRF	%D	Q	RRF	%D	Q
Hexachlorocyclopentadiene	0.05	0.415			0.232	44.1	J/UJ									
2,4,6-Trichlorophenol	0.05															
2,4,5-Trichlorophenol	0.05															
2-Chloronaphthalene	0.05															
2-Nitroaniline	0.05															
Dimethylphthlate	0.05															
Acenaphthylene	0.05															
2,6-Dinitrotoluene	0.05															
3-Nitroaniline	0.05	0.444			0.205	53.8	J/UJ									
Acenaphthene	0.05															
2,4-Dinitrophenol	0.05															
4-Nitrophenol	0.05															
Dibenzofuran	0.05															
2,4-Dinitrotoluene	0.05															
Diethylphthalate	0.05															
4-Chlorophenyl-phenylether	0.05															
Fluorene	0.05															
4-Nitroaniline	0.05	0.373			0.138	63.0	J/UJ									
4,6-Dinitro-2-methylphenol	0.05															
N-nitrosodiphenylamine	0.05															
4-Bromophenyl-phenylether	0.05															
Hexachlorobenzene	0.05															
Pentachlorophenol	0.05															
Phenanthrene	0.05															
Anthracene	0.05															

Reviewer's Init/Date: ACH / 6-1-01

LOW CONCENTRATION WATER
SEMIVOLATILE TCL COMPOUNDS
Page 3 of 3

CASE/SAS#: 29241					CONTRACT LAB: MITKEM											
Instrument S1					SITE NAME: American Cyanamide											
Column:		Initial Calibration			Continuing Cal			Continuing Cal			Continuing Cal			Continuing Cal		
Date/Time:		05-05-01 / 0355														
TCL Analytes		RRF	%RSD	Q	RRF	%D	Q	RRF	%D	Q	RRF	%D	Q	RRF	%D	Q
Di-n-butylphthalate	0.05															
Fluoranthene	0.05															
Pyrene	0.05															
Butylbenzylphthalate	0.05															
3,3'-Dichlorobenzidine	0.05	0.287			0.083	71.1	J/UJ									
Benzo(a)anthracene	0.05															
Chrysene	0.05															
bis(2-Ethylhexyl)phthalate	0.05															
Di-n-octylphthalate	0.05															
Benzo(b)fluoranthene	0.05															
Benzo(k)fluoranthene	0.05															
Benzo(a)pyrene	0.05															
Indeno(1,2,3-cd)pyrene	0.05															
Dibenz(a,h)anthrancene	0.05															
Benzo(g,h,i)perylene	0.05															
SURROGATES																
Nitrobenzene-d5	0.05															
2-Fluorobiphenyl	0.05															
Terphenyl-d14	0.05															
Phenol-d5	0.05															
2-Fluorophenol	0.05															
2,4,6-Tribromophenol	0.05															

Reviewer's Init/Date: ACH / 6-1-01

% RSD ± 30%, % D ± 25% : National Functional Guidelines, 10/99

Q = These flags should be applied to the analytes on the sample data sheets.
# Minimum Relative Response Factor for Data Review Purposes

CALIBRATION OUTLIER
PESTICIDE/PCB TCL COMPOUNDS
Page 1 of 1

CASE\SAS#: 29241					CONTRACT LAB: MITKEM							
Instrument: E4					SITE NAME: American Cyanamide							
COLUMN: CLPPEST1	Initial Calibration		Continuing Cal		Continuing Cal		Continuing Cal		Continuing Cal		Continuing Cal	
Date\Time:	05/10-11/01		05-18-01/1746									
TCL Analytes	%RSD	Q	%D	Q	%D	Q	%D	Q	%D	Q	%D	Q
alpha-BHC												
beta-BHC												
delta-BHC												
gamma-BHC												
Heptachlor												
Aldrin												
Heptachlor epoxide												
Endosulfan I												
Dieldrin												
4,4'-DDE												
Endrin												
Endosulfan II												
4,4'-DDD												
Endosulfan sulfate												
4,4'-DDT												
Methoxychlor												
Endrin ketone												
Endrin aldehyde												
alpha-Chlordane												
gamma-Chlordane												
Toxaphene												
Aroclor-1016												
Aroclor-1221												
Aroclor-1232												
Aroclor-1242												
Aroclor-1248												
Aroclor-1254												
Aroclor-1260												
Tetrachloro-m-xylene (SURR)												
Decachlorobiphenyl (SURR)												
AFFECTED SAMPLES:			PBLK01									
			PLCS01									
			E00B7-8									
Reviewer's Init/Date: CXH/6-1-01			E00C2-5									

%RSD ≤ 20%, %D ± 25% per National Functional Guidelines, 10/99
Q - These flags should be applied to the analytes on the sample data sheets.

CALIBRATION OUTLIER
PESTICIDE/PCB TCL COMPOUNDS
Page 1 of 1

CASE\SAS#: 29241					CONTRACT LAB: MITKEM							
Instrument: E4					SITE NAME: American Cyanamide							
COLUMN: CLPPEST2	Initial Calibration		Continuing Cal		Continuing Cal		Continuing Cal		Continuing Cal		Continuing Cal	
Date\Time:	05/10-11/01		05-18-01/1746									
TCL Analytes	%RSD	Q	%D	Q	%D	Q	%D	Q	%D	Q	%D	Q
alpha-BHC												
beta-BHC												
delta-BHC												
gamma-BHC												
Heptachlor												
Aldrin												
Heptachlor epoxide												
Endosulfan I												
Dieldrin												
4,4'-DDE												
Endrin												
Endosulfan II												
4,4'-DDD												
Endosulfan sulfate												
4,4'-DDT												
Methoxychlor												
Endrin ketone												
Endrin aldehyde												
alpha-Chlordane												
gamma-Chlordane												
Toxaphene												
Aroclor-1016												
Aroclor-1221												
Aroclor-1232												
Aroclor-1242												
Aroclor-1248												
Aroclor-1254												
Aroclor-1260												
Tetrachloro-m-xylene (SURR)												
Decachlorobiphenyl (SURR)												
AFFECTED SAMPLES:			PBLK01									
			PLCS01									
			E00B7-8									
Reviewer's Init/Date: aat/6-1-01			E00C2-5									

%RSD ≤ 20%, %D ± 25% per National Functional Guidelines, 10/99
Q - These flags should be applied to the analytes on the sample data sheets.

ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utinized in this document, the following code letters and associated definitions are provide:

VALUE-if the results is a value greater than or equal to the Contract Required Quantitation Limit (CRQL).

U Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.

J Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound but the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.

R Indicates the data are unusable. (Note: The analyte may or may not be present.)

N Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.

P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.

C Indicates pesticide results that have been confirmed by GC/MS.

B Indicates the analyte is detected in the associated blank as well as the sample.

E Indicates compounds whose concentrations exceed the calibration range of the instrument.

D Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.

A Indicates tentatively identified compounds that are suspected to be aldol condensation products.

G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.

L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.

T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X, Y, Z are reserved for laboratory defined flags.

EPA Contract Laboratory Program
Organic Traffic Report

Case No: 29241
DAS No:
SDG No: E00B7

L

Date Shipped: 5/7/01 Carrier Name: FedEx Airbill: 4684285023 Shipped to: Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400	Date Received/Received by: 5/8/01 Nathan Reynolds Lab Contract No: 68-D6-0063 Unit Price: $498.75 Transfer To: — Date Received/Received By: — Lab Contract No: — Price: —	Sampler (Signature): Bruce Everetts, Bruce Everetts Relinquished By: Bruce Everetts	Date / Time: 5/7/01 18:30	Received By:
		Relinquished By:	Date / Time:	Received By:
		Relinquished By:	Date / Time:	Received By:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00B7	Potable Well/ Bruce Everetts	L/G	VOA (21)	5-43598 (HCL), 5-43599 (HCL), 5-43600 (HCL), 5-43601 (HCL), 5-43602 (HCL) (5)	G205	5/7/01 11:50	ME00B7	OK
E00B8	Potable Well/ Bruce Everetts	L/G	VOA (21)	5-43607 (HCL), 5-43608 (HCL), 5-43609 (HCL), 5-43610 (HCL), 5-43611 (HCL) (5)	G206	5/7/01 11:50	ME00B8	
E00C2	Potable Well/ Bruce Everetts	L/G	VOA (21)	5-43621 (HCL), 5-43622 (HCL), 5-43623 (HCL), 5-43624 (HCL), 5-43625 (HCL), 5-43626 (HCL), 5-43627 (HCL), 5-43628 (HCL), 5-43629 (HCL), 5-43630 (HCL), 5-43631 (HCL), 5-43632 (HCL), 5-43633 (HCL), 5-43634 (HCL), 5-43635 (HCL) (15)	G201	5/7/01 13:15	ME00C2	
E00C3	Potable Well/ Bruce Everetts	L/G	VOA (21)	5-43642 (HCL), 5-43643 (HCL), 5-43644 (HCL), 5-43645 (HCL), 5-43646 (HCL) (5)	G203	5/7/01 12:50	ME00C3	
E00C4	Potable Well/ Bruce Everetts	L/G	VOA (21)	5-43651 (HCL), 5-43652 (HCL), 5-43653 (HCL), 5-43654 (HCL), 5-43655 (HCL) (5)	G204	5/7/01 14:30	ME00C4	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 6°C	Chain of Custody Seal Number: 26011
Analysis Key: VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-390575112-050701-0001

EPA Contract Laboratory Program
Organic Traffic Report

Case No: 29241
DAS No:
SDG No: E0087

L

Date Shipped: 5/7/01 Carrier Name: FedEx Airbill: 4684285023 Shipped to: Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400	Date Received/Received by: 5/8/01 Nathan Reynolds Lab Contract No: 68-D6-0063 Unit Price: $498.75 Transfer To: — Date Received/Received By: — Lab Contract No: — Price: —	Sampler (Signature): Bruce Everetts [signature] Relinquished By: [signature] Date / Time: 5/7/01 1830 Received By: Relinquished By: Date / Time: Received By: Relinquished By: Date / Time: Received By:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00C5	Potable Well/ Bruce Everetts	L/G	VOA (21)	5-43660 (HCL), 5-43661 (HCL), 5-43662 (HCL), 5-43663 (HCL), 5-43664 (HCL) (5)	G207	5/7/01 17:35	ME00C5	OK
E00C6	Potable Well/ Bruce Everetts	L/G	VOA (21)	5-43666 (HCL), 5-43667 (HCL) (2)	G208	5/7/01 17:47	ME00C6	

SDG Final Sample am 5/11/01

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 6°C	Chain of Custody Seal Number: 26011
Analysis Key: VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

PR provides preliminary results. Requests for preliminary resuls will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-390575112-050701-0001

EPA Contract Laboratory Program
Organic Traffic Report

Case No: 29241
DAS No:
SDG No: E00B7

L

Date Shipped: 5/8/01	Date Received/Received by: 5/9/01 Nathan Reynolds	Sampler (Signature): Bruce Everetts	
Carrier Name: FedEx	Lab Contract No: 68-D6-0063 Unit Price: $448.75	Relinquished By:	Date / Time: 5/8/01 1100	Received By:
Airbill: 4684285045		Relinquished By:	Date / Time:	Received By:
Shipped to: Mitkem Corporation, 175 Metro Center Blvd., Warwick RI 02886, (401) 732-3400	Transfer To: —	Relinquished By:	Date / Time: 5-9-01 0900	Received By:
	Date Received/Received By: —			
	Lab Contract No: — Price: —			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00B7	Potable Well/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-43596, 5-43597 (2)	G205	5/7/01 11:50	ME00B7	OK
E00B8	Potable Well/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-43605, 5-43606 (2)	G206	5/7/01 11:50	ME00B8	
E00C2	Potable Well/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-43615, 5-43616, 5-43617, 5-43618, 5-43619, 5-43620 (6)	G201	5/7/01 13:15	ME00C2	
E00C3	Potable Well/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-43640 (Ice Only), 5-43641 (2)	G203	5/7/01 12:50	ME00C3	
E00C4	Potable Well/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-43649, 5-43650 (2)	G204	5/7/01 14:30	ME00C4	
E00C5	Potable Well/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-43658, 5-43659 (2)	G207	5/7/01 17:35	ME00C5	

SDG - Final Sample

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 0°C	Chain of Custody Seal Number: 26012, 26020, 26024
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y
BNA = CLP TCL Semivolatiles, PEST = CLP TCL Pesticide/PCBs				

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-390575112-050801-0001

MAY 2 3 2001

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to USEPA Case # 29241 and SDG# E00B7. Analyses were performed for seven aqueous samples that were received on May 8 and 9, 2001. The analyses were performed under USEPA Contract # 68-D6-0063. Please note that the coolers were measured at 6°C. Please note that the volatile samples were received on May 8. The semivolatile and pesticides/PCB samples were received on May 9.

The following samples are submitted in this data package:

Client ID	Lab ID	Analysis	VOA pH
E00B7	80892001	V, S, P	<2
E00B8	80892002	V, S, P	<2
E00C2	80892003	V, S, P	<2
E00C3	80892004	V, S, P	<2
E00C4	80892005	V, S, P	<2
E00C5	80892006	V, S, P	<2
E00C6	80892007	V	<2

V = Volatiles
S = Semivolatiles
P = Pesticides/PCB

The analyses were performed using USEPA CLP Low-Concentration (OLC02.1) protocols. The analyses were performed with strict adherence to the SOW with the following exceptions and observations:

1. Overall Observation:

Where needed, manual integrations were performed due to co-eluting interferences, matrix interferences or baseline noise to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required.

Several analytes were manually integrated in the initial calibration. These analytes were manually integrated due to incorrect integration by the software.

2. Volatile Analysis:

Trap used for instrument V1: OI Analytical #10 trap containing 8 cm each of Tenax, silica gel and carbon molecular sieve.

GC column used: 30 m x 0.25 mm id (1.4 um film thickness) DB-624 capillary column.

No unusual observation was made for the analysis.

3. Semivolatile Analysis:

GC column: 30 m x 0.25 mm id (0.5 um film thickness) DB-5MS capillary column

No unusual observation was made for the analysis.

4. Pesticides/PCB Analysis:

GC column used: 30 m x 0.53 mm id (0.5 um film thickness) CLPPest1 and 30 m x 0.53 mm id (0.42 um film thickness) CLPPest2 megabore columns

No unusual observation was made for the analysis.

All of the submittals to the region are originals other than logbook pages and copies of tunes and standard files, which are shared by many other cases. For these, the original copies are archived in the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Agnes Ng
CLP Project Manager
05/22/01

2LCA
LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

	EPA SAMPLE NO.	BFB %REC #	OTHER	TOT OUT
01	VBLK1S	92		0
02	VLCS1S	89		0
03	E00B7	84		0
04	E00B8	86		0
05	E00C2	88		0
06	E00C3	83		0
07	E00C4	86		0
08	E00C5	82		0
09	E00C6	83		0
10	VHBLK1S	81		0
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QC LIMITS
%REC
(80-120)

BFB = Bromofluorobenzene

Column to be used to flag recovery values.
* Values outside of contract required QC limits.

3LCA

LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

VLCS1S

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: V1L0510A LCS Lot No.:

Lab File ID: V1D9828 Date Analyzed: 05/10/01

Purge Volume: 25 (mL) Dilution Factor: 1.0

LCS Aliquot: 10 (ul)

COMPOUND	AMOUNT ADDED (NG)	AMOUNT RECOVERED (NG)	%REC #	QC LIMITS
Vinyl chloride	125	104	83	60-140
1,2-Dichloroethane	125	129	103	60-140
Carbon tetrachloride	125	130	104	60-140
1,2-Dichloropropane	125	129	103	60-140
Trichloroethene	125	133	106	60-140
1,1,2-Trichloroethane	125	129	103	60-140
Benzene	125	133	106	60-140
cis-1,3-Dichloropropene	125	138	110	60-140
Bromoform	125	135	108	60-140
Tetrachloroethene	125	134	107	60-140
1,2-Dibromoethane	125	124	99	60-140
1,4-Dichlorobenzene	125	126	101	60-140

Column to be used to flag recovery values with an asterick.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 12 total.

COMMENTS:

4LCA

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1S

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: V1B0510C Date Analyzed: 05/10/01

Lab File ID: V1D9827 Time Analyzed: 1643

Instrument ID: V1

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS1S	V1L0510A	V1D9828	1712
02	E00B7	80892001	V1D9843	0010
03	E00B8	80892002	V1D9844	0040
04	E00C2	80892003	V1D9845	0108
05	E00C3	80892004	V1D9846	0136
06	E00C4	80892005	V1D9847	0204
07	E00C5	80892006	V1D9848	0232
08	E00C6	80892007	V1D9849	0301
09	VHBLK1S	V1B0510D	V1D9850	0330
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COMMENTS: _____

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK1S

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: V1B0510C Date Received: _____

Lab File ID: V1D9827 Date Analyzed: 05/10/01

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK1S

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: V1B0510C Date Received: _____

Lab File ID: V1D9827 Date Analyzed: 05/10/01

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
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LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00B7

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892001 Date Received: 05/08/01

Lab File ID: V1D9843 Date Analyzed: 05/11/01

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00B7

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892001 Date Received: 05/08/01

Lab File ID: V1D9843 Date Analyzed: 05/11/01

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
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LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00B8

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892002 Date Received: 05/08/01

Lab File ID: V1D9844 Date Analyzed: 05/11/01

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00B8

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892002 Date Received: 05/08/01

Lab File ID: V1D9844 Date Analyzed: 05/11/01

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
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LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C2

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892003 Date Received: 05/08/01

Lab File ID: V1D9845 Date Analyzed: 05/11/01

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00C2

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892003 Date Received: 05/08/01

Lab File ID: V1D9845 Date Analyzed: 05/11/01

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
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1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C3

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892004 Date Received: 05/08/01

Lab File ID: V1D9846 Date Analyzed: 05/11/01

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

E00C3

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892004 Date Received: 05/08/01

Lab File ID: V1D9846 Date Analyzed: 05/11/01

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
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1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C4

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892005 Date Received: 05/08/01

Lab File ID: V1D9847 Date Analyzed: 05/11/01

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	0.5	J
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00C4

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892005 Date Received: 05/08/01

Lab File ID: V1D9847 Date Analyzed: 05/11/01

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
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1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C5

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892006 Date Received: 05/08/01

Lab File ID: V1D9848 Date Analyzed: 05/11/01

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00C5

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892006 Date Received: 05/08/01

Lab File ID: V1D9848 Date Analyzed: 05/11/01

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
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1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C6

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892007 Date Received: 05/08/01

Lab File ID: V1D9849 Date Analyzed: 05/11/01

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00C6

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892007 Date Received: 05/08/01

Lab File ID: V1D9849 Date Analyzed: 05/11/01

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
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1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK1S

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: V1B0510D Date Received: 05/08/01

Lab File ID: V1D9850 Date Analyzed: 05/11/01

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK1S

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: V1B0510D Date Received: 05/08/01

Lab File ID: V1D9850 Date Analyzed: 05/11/01

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
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2LCB
LOW CONC. WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

	EPA SAMPLE NO.	NBZ %REC #	FBP %REC #	TPH %REC #	PHL %REC #	2FP %REC #	TBP %REC #	OTHER	TOT OUT
01	SBLK1J	76	69	103	38	38	40		0
02	SLCS1J	80	79	101	38	37	40		0
03	E00B7	80	78	101	35	36	44		0
04	E00B8	76	78	110	36	36	48		0
05	E00C2	74	72	112	35	36	47		0
06	E00C3	80	80	111	37	39	49		0
07	E00C4	83	84	118	39	39	48		0
08	E00C5	80	78	100	35	37	43		0
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		QC LIMITS %REC
NBZ	= Nitrobenzene-d5	(23-120)
FBP	= 2-Fluorobiphenyl	(30-115)
TPH	= Terphenyl-d14	(18-140)
PHL	= Phenol-d5	(15-115)
2FP	= 2-Fluorophenol	(15-121)
TBP	= 2,4,6-Tribromophenol	(15-130)

Column to be used to flag recovery values.
* Values outside of contract required QC limits.
D Surrogate diluted out.

3LCB

LOW CONC. WATER SEMIVOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

SLCS1J

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: S0511-LW2 LCS Lot No.:

Lab File ID: S1C1441 Date Extracted: 05/11/01

LCS Aliquot: 1000 (ul) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
Phenol	40	30	75	40-120
bis(-2-Chloroethyl)Ether	20	16	80	50-110
2-Chlorophenol	40	32	80	50-110
N-Nitroso-di-n-propylamine	20	15	75	30-110
Hexachloroethane	20	14	70	20-110
Isophorone	20	16	80	50-110
Naphthalene	20	16	80	30-110
4-Chloroaniline	40	33	82	10-120
2,4,6-Trichlorophenol	40	30	75	40-120
2,4-Dinitrotoluene	20	16	80	30-120
Diethylphthalate	20	18	90	50-120
N-nitrosodiphenylamine* (1)	20	17	85	30-110
Hexachlorobenzene	20	17	85	40-120
Benzo(a)pyrene	20	16	80	50-120

Column to be used to flag recovery values with an asterick.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 14 total.

COMMENTS:

4LCB

LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK1J

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: S0511-BW2 Date Extracted: 05/11/01

Lab File ID: S1C1440 Date Analyzed: 05/21/01

Instrument ID: S1 Time Analyzed : 1300

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES and LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCS1J	S0511-LW2	S1C1441	05/21/01
02	E00B7	80892001	S1C1442	05/21/01
03	E00B8	80892002	S1C1443	05/21/01
04	E00C2	80892003	S1C1444	05/21/01
05	E00C3	80892004	S1C1445	05/21/01
06	E00C4	80892005	S1C1446	05/21/01
07	E00C5	80892006	S1C1447	05/21/01
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COMMENTS:

FORM IV LCSV

OLC02.1

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK1J

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: S0511-BW2 Date Received: _____

Lab File ID: S1C1440 Date Extracted: 05/11/01

Sample Volume: 1000.00 (mL) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(-2-Chloroethyl)Ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(-2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-Methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK1J

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: S0511-BW2 Date Received: _____

Lab File ID: S1C1440 Date Extracted: 05/11/01

Sample Volume: 1000.00 (mL) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenzo(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK1J

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: S0511-BW2 Date Received: _____

Lab File ID: S1C1440 Date Extracted: 05/11/01

Sample Volume: 1000.00 (mL) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.				
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1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00B7

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892001 Date Received: 05/08/01

Lab File ID: S1C1442 Date Extracted: 05/11/01

Sample Volume: 1000.00 (mL) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(-2-Chloroethyl)Ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(-2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-Methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00B7

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892001 Date Received: 05/08/01

Lab File ID: S1C1442 Date Extracted: 05/11/01

Sample Volume: 1000.00 (mL) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenzo(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

E00B7

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892001 Date Received: 05/08/01

Lab File ID: S1C1442 Date Extracted: 05/11/01

Sample Volume: 1000.00 (mL) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1.	UNKNOWN	19.86	15	J
2. 123-95-5	OCTADECANOIC ACID, BUTYL EST	21.31	12	NJ
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1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00B8

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892002 Date Received: 05/08/01

Lab File ID: S1C1443 Date Extracted: 05/11/01

Sample Volume: 1000.00 (mL) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(-2-Chloroethyl)Ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(-2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-Methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00B8

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892002 Date Received: 05/08/01

Lab File ID: S1C1443 Date Extracted: 05/11/01

Sample Volume: 1000.00 (mL) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenzo(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

E00B8

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892002 Date Received: 05/08/01

Lab File ID: S1C1443 Date Extracted: 05/11/01

Sample Volume: 1000.00 (mL) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.	UNKNOWN	19.86	16	J
2. 646-13-9	OCTADECANOIC ACID, 2-METHYLP	21.32	13	NJ
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1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C2

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892003 Date Received: 05/08/01

Lab File ID: S1C1444 Date Extracted: 05/11/01

Sample Volume: 1000.00 (mL) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(-2-Chloroethyl)Ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(-2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-Methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C2

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892003 Date Received: 05/08/01

Lab File ID: S1C1444 Date Extracted: 05/11/01

Sample Volume: 1000.00 (mL) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenzo(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00C2

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892003 Date Received: 05/08/01

Lab File ID: S1C1444 Date Extracted: 05/11/01

Sample Volume: 1000.00 (mL) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1.	UNKNOWN	19.86	16	J
2. 646-13-9	OCTADECANOIC ACID, 2-METHYLP	21.32	13	NJ
3.				
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1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C3

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892004 Date Received: 05/08/01

Lab File ID: S1C1445 Date Extracted: 05/11/01

Sample Volume: 1000.00 (mL) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(-2-Chloroethyl)Ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(-2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-Methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C3

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892004 Date Received: 05/08/01

Lab File ID: S1C1445 Date Extracted: 05/11/01

Sample Volume: 1000.00 (mL) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenzo(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

E00C3

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892004 Date Received: 05/08/01

Lab File ID: S1C1445 Date Extracted: 05/11/01

Sample Volume: 1000.00 (mL) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1	UNKNOWN	19.86	17	J
2.	UNKNOWN	21.32	14	J
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1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C4

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892005 Date Received: 05/08/01

Lab File ID: S1C1446 Date Extracted: 05/11/01

Sample Volume: 1000.00 (mL) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(-2-Chloroethyl)Ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(-2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-Methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C4

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892005 Date Received: 05/08/01

Lab File ID: S1C1446 Date Extracted: 05/11/01

Sample Volume: 1000.00 (mL) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenzo(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00C4

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892005 Date Received: 05/08/01

Lab File ID: S1C1446 Date Extracted: 05/11/01

Sample Volume: 1000.00 (mL) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1	UNKNOWN	19.86	16	J
2. 123-95-5	OCTADECANOIC ACID, BUTYL EST	21.31	13	NJ
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1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C5

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892006 Date Received: 05/08/01

Lab File ID: S1C1447 Date Extracted: 05/11/01

Sample Volume: 1000.00 (mL) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(-2-Chloroethyl)Ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(-2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-Methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C5

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892006 Date Received: 05/08/01

Lab File ID: S1C1447 Date Extracted: 05/11/01

Sample Volume: 1000.00 (mL) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenzo(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00C5

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892006 Date Received: 05/08/01

Lab File ID: S1C1447 Date Extracted: 05/11/01

Sample Volume: 1000.00 (mL) Date Analyzed: 05/21/01

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1.	UNKNOWN	19.86	10	J
2.	UNKNOWN	21.31	8	J
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2LCC
LOW CONC. WATER PESTICIDE SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

GC Column(1): CLPPEST2 ID: 0.53 (mm) GC Column(2): CLPPEST1 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX(1) %REC #	TCX(2) %REC #	DCB(1) %REC #	DCB(2) %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK01	96	99	103	103			0
02	PLCS01	84	77	93	94			0
03	E00B7	71	74	90	90			0
04	E00B8	71	69	97	91			0
05	E00C2	75	75	103	97			0
06	E00C3	71	75	100	102			0
07	E00C4	70	76	103	103			0
08	E00C5	67	68	78	81			0
09								
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QC LIMITS

	%REC
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values.
* Values outside of contract required QC limits.
D Surrogate diluted out.

3LCC

LOW CONC. WATER PESTICIDE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

PLCS01

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: P0511-LW1 LCS Lot No.:

LCS Aliquot: 1000 (uL) Date Extracted: 05/11/01

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/18/01

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y .

Instrument ID(1): E4 GC Column(1):CLPPest2 ID:0.53 (mm)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	100	86.4	86	50-120
Heptachlor epoxide	100	84.0	84	50-150
Dieldrin	200	174.0	87	30-130
4,4'-DDE	200	182.0	91	50-150
Endrin	200	198.0	99	50-120
Endosulfan sulfate	200	174.0	87	50-120
gamma-Chlordane	100	92.2	92	30-130

Instrument ID(2): E4 GC Column(2):CLPPest1 ID:0.53 (mm)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	100	88.9	89	50-120
Heptachlor epoxide	100	83.5	84	50-150
Dieldrin	200	177.0	88	30-130
4,4'-DDE	200	191.0	96	50-150
Endrin	200	188.0	94	50-120
Endosulfan sulfate	200	169.0	84	50-120
gamma-Chlordane	100	92.8	93	30-130

Column to be used to flag recovery values with an asterick.
* Values outside of QC limits.
LCS Recovery: 0 outside limits out of 14 total.

COMMENTS:

4LCC

LOW CONC. WATER PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK01

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Date Extracted: 05/11/01 Lab Sample ID: P0511-BW1

Date Analyzed (1): 05/18/01 Date Analyzed (2): 05/18/01

Time Analyzed (1): 1905 Time Analyzed (2): 1905

Instrument ID (1): E4 Instrument ID (2): E4

GC Column (1): CLPPEST2 ID: 0.53(mm) GC Column (2): CLPPEST1 ID: 0.53(mm)

Sulfur Cleanup (Y/N) Y Extraction:(SepF/Cont) CONT

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PLCS01	P0511-LW1	05/18/01	05/18/01
02	E00B7	80892001	05/18/01	05/18/01
03	E00B8	80892002	05/18/01	05/18/01
04	E00C2	80892003	05/18/01	05/18/01
05	E00C3	80892004	05/18/01	05/18/01
06	E00C4	80892005	05/19/01	05/19/01
07	E00C5	80892006	05/19/01	05/19/01
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COMMENTS:

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK01

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: P0511-BW1 Date Received: _____

Sample Volume: 1000.00 (mL) Date Extracted: 05/11/01

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/18/01

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) CONT

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00B7

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892001 Date Received: 05/08/01

Sample Volume: 1000.00 (mL) Date Extracted: 05/11/01

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/18/01

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) CONT

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00B8

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892002 Date Received: 05/08/01

Sample Volume: 1000.00 (mL) Date Extracted: 05/11/01

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/18/01

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) CONT

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C2

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892003 Date Received: 05/08/01

Sample Volume: 1000.00 (mL) Date Extracted: 05/11/01

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/18/01

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) CONT

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C3

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892004 Date Received: 05/08/01

Sample Volume: 1000.00 (mL) Date Extracted: 05/11/01

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/18/01

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) CONT

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C4

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892005 Date Received: 05/08/01

Sample Volume: 1000.00 (mL) Date Extracted: 05/11/01

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/19/01

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) CONT

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C5

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 29241 SAS No.: SDG No.: E00B7

Lab Sample ID: 80892006 Date Received: 05/08/01

Sample Volume: 1000.00 (mL) Date Extracted: 05/11/01

Concentrated Extract Volume: 2000(uL) Date Analyzed: 05/19/01

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) CONT

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E00B7 CERCLIS No: ILD006175264

Case No: 29241 Site Name/Location: American Cyanamide

Contractor or EPA Lab: HITKEM Data User: EPA

No. of Samples: 7 Date Sampled or Date Received: 5-23-01

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 7 No. of samples received: 7

Received by: Eva M. Dixon / ESAT Date: 5-23-01

Received by LSSS: Eva M. Dixon / ESAT Date: 5-23-01

Review started: 5/30/01 Reviewer Signature: Allison C Harvey

Total time spent on review: 10.0 hrs + 1.0 hr Date review completed: 6/4/2001

Copied by: Eva M. Dixon / ESAT Date: 6-4-01

Mailed to user by: Eva M. Dixon / ESAT Date: 6-4-01

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____

JUN 25 2001

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: June 21, 2001

SUBJECT: Review of Data
Received for Review on June 19, 2001

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

The data in this case has not been validated.
We have compiled the CADRE files into a narrative format for the following case:

SITE NAME: American Cyanamide

CASE NUMBER: 29241 SDG NUMBER: ME00C7

Number and Type of Samples: 20 soils

Sample Numbers: ME00C7-9; ME00D1-7; ME00E6-9; ME00F0-5

Laboratory: AATS Hrs. for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

Case Number : 29241
Site Name: American Cyanamide

SDG Number: ME00C7
Laboratory: AATS

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

NUMBER (##) MATRIX samples numbered ##, were collected on DATE. The lab received the samples on DATE in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using CLP SOW ILM04.1 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure.

Assembled By: ESAT
Date: June 21, 2001

Case Number : 29241
Site Name: American Cyanamide

SDG Number: ME00C7
Laboratory: AATS

1. HOLDING TIME:

Holding Time Report

SDG NO: ME00C7

HOLDING TIME CRITERIA

Inorganic

	-- Holding Time --		------- pH -------	
	Primary	Expanded	Primary	Expanded
Metals	180	0	2.0	0.0
Mercury	28	0	2.0	0.0
Cyanide	14	0	12.0	0.0

DC-280: The following inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

ME00C7, ME00C8, ME00C9, ME00D1, ME00D2, ME00D3
ME00D4, ME00D5, ME00D6, ME00D7, ME00E6, ME00E7
ME00E7D, ME00E7S, ME00E8, ME00E9, ME00F0, ME00F1
ME00F2, ME00F3, ME00F4, ME00F5

2. CALIBRATIONS:

Calibration Report

SDG NO: ME00C7

CALIBRATION CRITERIA

Inorganic

Percent Recovery Limits

	--- Primary ---		-- Expanded ---	
	Low	High	Low	High
Cyanide	85.00	115.00	70.00	130.00
AA	90.00	110.00	75.00	125.00
ICP	90.00	110.00	75.00	125.00
Mercury	80.00	120.00	65.00	135.00

DC-302: The following inorganic samples, associated with ICV or CCV percent recovery that falls within the range 75-89 %

Assembled By: ESAT
Date: June 21, 2001

(CN, 70-84%; Hg, 65-79%), are greater than IDL are estimated "J", non-detects qualified as "UJ".

Nickel
ME00E7, ME00E7D, ME00E7S, ME00F4, ME00F5

CRDL Standards Report

SDG NO: ME00C7

DC-373: The following inorganic samples are associated with a CRDL standard with low percent recovery.

Lead
ME00C7, ME00C8, ME00C9, ME00D1, ME00D2, ME00D3
ME00D4, ME00D5, ME00D6, ME00D7, ME00E6, ME00E7
ME00E8, ME00E9, ME00F0, ME00F1, ME00F2, ME00F3
ME00F4, ME00F5, PBS03

Nickel
ME00C7, ME00C8, ME00C9, ME00D1, ME00D2, ME00D3
ME00D4, ME00D5, ME00D6, ME00D7, ME00E6, ME00E7
ME00E8, ME00E9, ME00F0, ME00F1, ME00F2, ME00F3
ME00F4, ME00F5, PBS03

Thallium
ME00C7, ME00C8, ME00C9, ME00D1, ME00D2, ME00D3
ME00D4, ME00D5, ME00D6, ME00D7, PBS03

3. BLANKS:

Laboratory Blanks Report

SDG NO: ME00C7

LABORATORY BLANKS CRITERIA

DC-284: The following inorganic samples are associated with a blank concentration which is greater than the instrument detection limit (IDL). The sample concentration is also greater than the IDL and less than five times the blank concentration. Hits are qualified "J"; non-detects are not flagged.

Nickel
ME00D1, ME00D2, ME00D7, ME00E6, ME00E8, ME00E9
ME00F0, ME00F1, ME00F2, ME00F3, ME00F5

Zinc
ME00D5

Cyanide
ME00D2, ME00D7, ME00E6, ME00E8, ME00E9, ME00F0
ME00F1, ME00F2, ME00F3, ME00F4, ME00F5

Assembled By: ESAT
Date: June 21, 2001

Case Number : 29241
Site Name: American Cyanamide

SDG Number: ME00C7
Laboratory: AATS

DC-338: During review of the following inorganic samples, the reported IDL/default CRDL value was used for cyanide.

ME00C7, ME00C8, ME00C9, ME00D1, ME00D2, ME00D3
ME00D4, ME00D5, ME00D6, ME00D7, ME00E6, ME00E7
ME00E7D, ME00E7S, ME00E8, ME00E9, ME00F0, ME00F1
ME00F2, ME00F3, ME00F4, ME00F5

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

Matrix Spike Report

SDG NO: ME00C7

MATRIX SPIKE CRITERIA

Inorganic

Percent Recovery Limits

Upper	125.0
Lower	75.0
Extreme lower	30.0

DC-268: The following inorganic samples are associated with a matrix spike recovery which is low (30-74 %) indicating that sample results may be biased low.
Hits are qualified "J" and non-detects are qualified "UJ".

Antimony
ME00C7, ME00C8, ME00C9, ME00D1, ME00D2, ME00D3
ME00D4, ME00D5, ME00D6, ME00D7, ME00E6, ME00E7
ME00E7A, ME00E7D, ME00E8, ME00E9, ME00F0, ME00F1
ME00F2, ME00F3, ME00F4, ME00F5

LCS Report

SDG NO: ME00C7

DC-331: The following inorganic soil samples are associated with a solid laboratory control sample (LCS) higher than the EPA control limit it are high, indicating a potential positive bias in the sample results. Hits are qualified "J", non-detects are acceptable.

Sodium
ME00C7, ME00C8, ME00C9, ME00D1, ME00D2, ME00D3
ME00D4, ME00D5, ME00D6, ME00D7, ME00E6, ME00E7
ME00E7D, ME00E8, ME00E9, ME00F0, ME00F1, ME00F2
ME00F3, ME00F4, ME00F5

Assembled By: ESAT
Date: June 21, 2001

Case Number : 29241
Site Name: American Cyanamide

SDG Number: ME00C7
Laboratory: AATS

5. LABORATORY AND FIELD DUPLICATE

Duplicates Report

SDG NO: ME00C7

No problems found for this qualification.

6. ICP ANALYSIS

ICS Report

SDG NO: ME00C7

DC-312: The following inorganic samples have elements other than Al, Ca, Fe, and Mg at concentrations higher than 10 ppm that may cause potential interference.
Hits are flagged "J" and non-detects are qualified "UJ".

Potassium
ME00C7

Sodium
ME00D7

Serial Dilution Report

SDG NO: ME00C7

No problems found for this qualification.

7. GFAA ANALYSIS

Furnace AA QC Report

SDG NO: ME00C7

No problems found for this qualification.

8. SAMPLE RESULTS

All data, except those qualified above, are acceptable.

Assembled By: ESAT
Date: June 21, 2001

Case Number : 29241
Site Name: American Cyanamide

SDG Number: ME00C7
Laboratory: AATS

Sample Result Verification Report

SDG NO: ME00C7

No problems found for this qualification.

Assembled By: ESAT
Date: June 21, 2001

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case #: 29241 SDG : ME00C7

Site : AMERICAN CYANAMIDE

Lab. : AATS

Reviewer :

Date :

Number of Soil Samples : 20

Number of Water Samples : 0

Sample Number :	ME00C7		ME00C8		ME00C9		ME00D1		ME00D2	
Sampling Location :	X111		X112		X116		X117		X118	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001	
Time Sampled :	17:15		15:15		17:00		16:45		16:30	
%Solids :	71.8		50.2		55.8		84.9		79.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	3360		25400		20800		9730		9490	
ANTIMONY	12.3	J	5.2	J	3.1	J	19.7	J	19.5	J
ARSENIC	10.6		6.0		4.6		9.6		10.0	
BARIUM	102		381		241		52.6		53.1	
BERYLLIUM	0.28	U	0.53		0.65		0.60		0.58	
CADMIUM	0.28	U	0.39	U	0.35	U	0.23	U	0.25	U
CALCIUM	1100		637		4250		70000		60700	
CHROMIUM	6.4		8.5		5.9		18.0		17.1	
COBALT	0.72		0.77	U	0.70	U	13.5		11.9	
COPPER	6.6		5.8		4.5		27.3		25.7	
IRON	36700		4960		4090		25400		25000	
LEAD	19.8		113		88.8		15.4		13.8	
MAGNESIUM	1000		466		2010		31900		29000	
MANGANESE	51.4		85.8		159		522		505	
MERCURY	0.060	U	0.15		0.11		0.060	U	0.080	
NICKEL	0.55	U	0.77	U	0.70	U	27.6	J	24.9	J
POTASSIUM	4680	J	3070		1040		2250		1860	
SELENIUM	1.2		4.3		3.4		0.69	U	0.74	U
SILVER	0.83	U	1.2	U	1.0	U	0.69	U	0.74	U
SODIUM	1670	J	2070	J	1220	J	543	J	431	J
THALLIUM	2.8		1.9	U	1.7	U	1.2	U	1.2	U
VANADIUM	10.0		41.7		32.9		20.7		19.6	
ZINC	22.5		13.0		13.9		70.9		74.8	
CYANIDE	0.070	U	0.10	U	0.090	U	0.060	U	0.090	J

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29241 SDG : ME00C7
Site : AMERICAN CYANAMIDE
Lab. : AATS
Reviewer :
Date :

Sample Number :	ME00D3		ME00D4		ME00D5		ME00D6		ME00D7	
Sampling Location :	X119		X120		X121		X122		X123	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001	
Time Sampled :	16:30		16:20		15:50		15:35		16:10	
%Solids :	52.3		52.6		52.6		58.4		75.6	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	10500		8920		11700		16800		36100	
ANTIMONY	7.9	J	9.3	J	13.0	J	4.6	J	20.3	J
ARSENIC	2.0		1.6		1.1	U	4.9		9.7	
BARIUM	65.2		119		172		293		95.9	
BERYLLIUM	0.38	U	0.37	U	0.38	U	0.61		0.62	
CADMIUM	0.38	U	0.37	U	0.38	U	0.34	U	0.26	U
CALCIUM	2500		482		872		2130		1710	
CHROMIUM	9.6		7.0		7.4		5.8		18.0	
COBALT	0.76	U	0.73	U	0.76	U	0.68	U	7.8	
COPPER	0.98		1.5		0.96		6.7		23.0	
IRON	2720		2460		2250		4060		28700	
LEAD	10.3		33.1		82.0		96.2		24.4	
MAGNESIUM	986		529		294		719		3560	
MANGANESE	20.7		10.9		3.7		172		213	
MERCURY	0.19		0.090		0.13		0.080		0.060	U
NICKEL	0.76	U	0.73	U	0.76	U	0.68	U	13.5	J
POTASSIUM	413		582		1310		1480		2160	
SELENIUM	1.1	U	1.8		1.1	U	2.4		1.2	
SILVER	1.1	U	1.1	U	1.1	U	1.0	U	0.78	U
SODIUM	685	J	582	J	719	J	1280	J	2660	J
THALLIUM	1.9	U	1.8	U	1.9	U	1.7	U	1.5	
VANADIUM	56.5		40.6		44.2		28.9		30.1	
ZINC	9.7		6.0		3.8	J	12.1		86.7	
CYANIDE	0.10	U	0.10	U	0.10	U	0.090	U	0.17	J

Analytical Results (Qualified Data)

Case #: 29241 SDG : ME00C7
Site : AMERICAN CYANAMIDE
Lab. : AATS
Reviewer :
Date :

Sample Number :	ME00E6		ME00E7		ME00E8		ME00E9		ME00F0	
Sampling Location :	X102		X103		X104		X105		X106	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001	
Time Sampled :	13:40		13:15		14:00		13:00		16:45	
%Solids :	73.2		62.9		78.3		76.0		82.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	12700		8610		7760		39100		15900	
ANTIMONY	14.3	J	3.1	J	13.1	J	18.7	J	9.2	J
ARSENIC	7.1		5.8		4.5		14.4		4.0	
BARIUM	178		447		84.2		81.4		27.3	
BERYLLIUM	0.64		0.31	U	0.54		3.4		0.53	
CADMIUM	0.27	U	0.31	U	0.25	U	1.3		0.70	
CALCIUM	14900		4330		7870		17800		197000	
CHROMIUM	12.8		4.5		12.2		19.1		17.9	
COBALT	7.6		1.6		6.3		6.4		5.4	
COPPER	19.1		5.6		18.6		66.0		17.6	
IRON	16500		4390		23500		23100		13300	
LEAD	49.3		109		12.2		331		50.2	
MAGNESIUM	8750		1310		3650		6810		85800	
MANGANESE	341		127		599		337		938	
MERCURY	0.080		0.080		0.060	U	0.13		0.34	
NICKEL	10.8	J	0.63	UJ	7.5	J	15.9	J	14.3	J
POTASSIUM	1490		1460		808		1240		586	
SELENIUM	1.9		2.9		1.1		0.79	U	0.72	U
SILVER	0.82	U	0.94	U	0.76	U	0.79	U	0.81	
SODIUM	667	J	1730	J	406	J	734	J	635	J
THALLIUM	1.4	U	1.6	U	1.3	U	1.3	U	1.2	U
VANADIUM	24.8		23.2		18.4		28.5		23.0	
ZINC	46.4		13.0		48.2		163		139	
CYANIDE	0.070	J	0.080	U	0.24	J	0.34	J	0.090	J

Analytical Results (Qualified Data)

Case #: 29241 SDG : ME00C7
Site : AMERICAN CYANAMIDE
Lab. : AATS
Reviewer :
Date :

Sample Number :	ME00F1		ME00F2		ME00F3		ME00F4		ME00F5	
Sampling Location :	X107		X108		X109		X110		X124	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001	
Time Sampled :	18:00		17:45		17:10		17:10		17:45	
%Solids :	80.2		75.7		96.1		66.2		72.9	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	12400		17100		8310		13000		16500	
ANTIMONY	9.2	J	18.7	J	12.6	J	23.3	J	17.0	J
ARSENIC	8.0		6.7		10.8		8.1		7.1	
BARIUM	52.7		145		107		73.9		141	
BERYLLIUM	0.87		0.89		0.51		0.29	U	0.81	
CADMIUM	3.7		0.49		0.74		0.94		0.48	
CALCIUM	58400		3860		53800		4540		4960	
CHROMIUM	6.8		15.1		12.8		23.1		13.3	
COBALT	4.6		8.6		8.6		2.7		7.3	
COPPER	27.9		17.6		12.4		690		19.8	
IRON	12200		22500		20600		27500		31600	
LEAD	97.4		19.1		17.6		168		22.1	
MAGNESIUM	33000		2810		29200		2610		2120	
MANGANESE	409		305		973		78.5		345	
MERCURY	0.22		0.090		0.11		0.62		0.080	
NICKEL	9.1	J	6.5	J	9.2	J	0.58	UJ	4.0	J
POTASSIUM	456		959		832		1770		1160	
SELENIUM	0.93		1.1		0.82		1.9		1.2	
SILVER	0.73	U	0.78	U	0.59	U	0.87	U	0.82	U
SODIUM	437	J	438	J	440	J	458	J	525	J
THALLIUM	1.2	U	1.4		0.99	U	1.6		1.9	
VANADIUM	10.3		23.4		23.5		56.9		21.3	
ZINC	4160		94.8		62.3		85.0		107	
CYANIDE	0.090	J	0.25	J	0.14	J	0.21	J	0.23	J

Analytical Results (Qualified Data)

Case #: 29241 SDG : ME00C7
Site : AMERICAN CYANAMIDE
Lab. : AATS
Reviewer :
Date :

Sample Number :	ME00E7D		ME00E7S							
Sampling Location :	X103		X103							
Matrix :	Soil		Soil							
Units :	mg/Kg		mg/Kg							
Date Sampled :	05/08/2001		05/08/2001							
Time Sampled :	13:15		13:15							
%Solids :	62.9		62.9							
Dilution Factor :	1.0		1.0							
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	10700									
ANTIMONY	4.4	J	88.4							
ARSENIC	6.4		19.7							
BARIUM	444		1130							
BERYLLIUM	0.31	U	18.2							
CADMIUM	0.31	U	16.6							
CALCIUM	6830									
CHROMIUM	5.7		75.0							
COBALT	2.5		178							
COPPER	6.8		94.9							
IRON	5980									
LEAD	106		118							
MAGNESIUM	2890									
MANGANESE	129		296							
MERCURY	0.080	U	0.76							
NICKEL	0.83	UJ	161	J						
POTASSIUM	1490									
SELENIUM	3.0		5.8							
SILVER	0.94	U	17.8							
SODIUM	1810	J								
THALLIUM	1.6	U	15.9							
VANADIUM	23.0		193							
ZINC	19.1		191							
CYANIDE	0.080	U	7.1							

USEPA Contract Laboratory Program
Inorganic Traffic Report

Case No: 29241
DAS No:
SDG No: ME00C7

L

Date Shipped: 5/9/01 Carrier Name: FedEx Airbill: 4684285060 Shipped to: American Analytical & Technical Services, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545	Date Received/Received by: 5-10-01 Lab Contract No: [illegible] Unit Price: $87.95 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Bruce Everetts Relinquished By: Date / Time: 5-9/1400 Received By: Relinquished By: Date / Time: 5-10-01 8:30 Received By: Relinquished By: Date / Time: Received By:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00E4	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97174 (HNO3), 5-97175 (HNO3) (2)	G101	5/8/01 15:15	E00E4	
ME00E6	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97179 (Ice Only) (1)	X102	5/8/01 13:40	E00E6	
ME00E7	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97181 (Ice Only) (1)	X103	5/8/01 13:15	E00E7	
ME00E8	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97183 (1)	X104	5/8/01 14:00	E00E8	
ME00E9	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97185 (Ice Only) (1)	X105	5/8/01 13:00	E00E9	
ME00F0	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97187 (Ice Only) (1)	X106	5/8/01 16:45	E00F0	
ME00F1	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97189 (Ice Only) (1)	X107	5/8/01 18:00	E00F1	
ME00F2	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97191 (Ice Only) (1)	X108	5/8/01 17:45	E00F2	
ME00F3	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97193 (Ice Only) (1)	X109	5/8/01 17:10	E00F3	
ME00F4	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97195 (Ice Only) (1)	X110	5/8/01 17:10	E00F4	
ME00F5	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97197 (Ice Only) (1)	X124	5/8/01 17:45	E00F5	
ME00F6	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97199 (HNO3), 5-97200 (HNO3) (2)	G108	5/8/01 15:35	E00F6	
ME00F7	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97054 (HNO3), 5-97055 (HNO3) (2)	G109	5/8/01 17:30	E00F7	
ME00F8	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97059 (HNO3), 5-97060 (HNO3) (2)	G111	5/8/01 17:45	E00F8	
ME00F9	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97064 (HNO3), 5-97065 (HNO3) (2)	G113	5/9/01 8:10	E00F9	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: ME00E7	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 1.5, 2.4, 3.4	Chain of Custody Seal Number: 26033 - 26035
Analysis Key: TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact?__	Shipment Iced?__

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-390575112-050901-0002

U.S. EPA Contract Laboratory Program
Inorganic Traffic Report

Case No: 29241
DAS No:
SDG No: MF00C7

L

Date Shipped: 5/9/01 Carrier Name: FedEx Airbill: 4684285060 Shipped to: American Analytical & Technical Services, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545	Date Received/Received by: Lab Contract No: 68W00086 Unit Price: $87.95 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Bruce Everetts Relinquished By: Date / Time: 5-9/1400 Received By: Relinquished By: Date / Time: 5-10-01 8:30 Received By: Relinquished By: Date / Time: Received By:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00C7	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43668 (Ice Only) (1)	X111	5/7/01 17:15	E00C7	
ME00C8	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43670 (Ice Only) (1)	X112	5/7/01 15:15	E00C8	
ME00C9	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43672 (1)	X116	5/7/01 17:00	E00C9	
ME00D1	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43674 (1)	X117	5/7/01 16:45	E00D1	
ME00D2	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43676 (1)	X118	5/7/01 16:30	E00D2	
ME00D3	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43678 (1)	X119	5/7/01 16:30	E00D3	
ME00D4	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43680 (1)	X120	5/7/01 16:20	E00D4	
ME00D5	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43682 (1)	X121	5/7/01 15:50	E00D5	
ME00D6	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43684 (1)	X122	5/7/01 15:35	E00D6	
ME00D7	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43686 (1)	X123	5/7/01 16:10	E00D7	
ME00E0	Ground Water/ Bruce Everetts	L/G	TM (21)	5-43694 (HNO3), 5-43695 (HNO3) (2)	G104	5/8/01 9:45	E00E0	
ME00E2	Ground Water/ Bruce Everetts	L/G	TM (21)	5-055038 (HNO3), 5-55039 (HNO3) (2)	G106	5/8/01 11:45	E00E2	
ME00E3	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97159 (HNO3), 5-97160 (HNO3), 5-97161 (HNO3), 5-97162 (HNO3), 5-97163 (HNO3), 5-97164 (HNO3) (6)	G102	5/8/01 12:30	E00E3	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: ME00E7	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 1.5, 2.4, 3.4	Chain of Custody Seal Number: 26033 - 26035
Analysis Key: TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact?__	Shipment Iced?__

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-390575112-050901-0002

USEPA Contract Laboratory Program
Inorganic Traffic Report

Case No: 29241
DAS No:
SDG No: ME00E0

L

Date Shipped: 5/9/01 Carrier Name: FedEx Airbill: 4684285060 Shipped to: American Analytical & Technical Services, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545	Date Received/Received by: Lab Contract No: 68W00086 Unit Price: $87.75 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Bruce Everetts Relinquished By: Date / Time: 5-9/1400 Received By: Relinquished By: Date / Time: 5-10 01 8:30 Received By: Relinquished By: Date / Time: Received By:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00C7	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43668 (Ice Only) (1)	X111	5/7/01 17:15	E00C7	
ME00C8	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43670 (Ice Only) (1)	X112	5/7/01 15:15	E00C8	
ME00C9	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43672 (1)	X116	5/7/01 17:00	E00C9	
ME00D1	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43674 (1)	X117	5/7/01 16:45	E00D1	
ME00D2	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43676 (1)	X118	5/7/01 16:30	E00D2	
ME00D3	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43678 (1)	X119	5/7/01 16:30	E00D3	
ME00D4	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43680 (1)	X120	5/7/01 16:20	E00D4	
ME00D5	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43682 (1)	X121	5/7/01 15:50	E00D5	
ME00D6	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43684 (1)	X122	5/7/01 15:35	E00D6	
ME00D7	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-43686 (1)	X123	5/7/01 16:10	E00D7	
ME00E0	Ground Water/ Bruce Everetts	L/G	TM (21)	5-43694 (HNO3), 5-43695 (HNO3) (2)	G104	5/8/01 9:45	E00E0	
ME00E2	Ground Water/ Bruce Everetts	L/G	TM (21)	5-055038 (HNO3), 5-55039 (HNO3) (2)	G106	5/8/01 11:45	E00E2	
ME00E3	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97159 (HNO3), 5-97160 (HNO3), 5-97161 (HNO3), 5-97162 (HNO3), 5-97163 (HNO3), 5-97164 (HNO3) (6)	G102	5/8/01 12:30	E00E3	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF
SDG ME00E7
Signature
Date May 15 2001
COPY

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: ME00E7	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 1.8, 2.4, 3.4	Chain of Custody Seal Number: 26033 - 26035
Analysis Key: TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact?__	Shipment Iced?__

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-390575112-050901-0002

USEPA Contract Laboratory Program
Inorganic Traffic Report

Case No: 29241
DAS No:
SDG No: ME00E0

L

Date Shipped: 5/9/01 Carrier Name: FedEx Airbill: 4684285060 Shipped to: American Analytical & Technical Services, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545	Date Received/Received by: 5-10-01 Lab Contract No: 68[illegible]86 Unit Price: $87.95 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Bruce E[illegible]	
		Relinquished By: [illegible]	Date / Time: 5-9/1400	Received By:
		Relinquished By:	Date / Time: 5-10-01 8:30	Received By:
		Relinquished By:	Date / Time:	Received By:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00E4	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97174 (HNO3), 5-97175 (HNO3) (2)	G101	5/8/01 15:15	E00E4	
ME00E6	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97179 (Ice Only) (1)	X102	5/8/01 13:40	E00E6	
ME00E7	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97181 (Ice Only) (1)	X103	5/8/01 13:15	E00E7	
ME00E8	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97183 (1)	X104	5/8/01 14:00	E00E8	
ME00E9	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97185 (Ice Only) (1)	X105	5/8/01 13:00	E00E9	
ME00F0	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97187 (Ice Only) (1)	X106	5/8/01 16:45	E00F0	
ME00F1	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97189 (Ice Only) (1)	X107	5/8/01 18:00	E00F1	
ME00F2	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97191 (Ice Only) (1)	X108	5/8/01 17:45	E00F2	
ME00F3	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97193 (Ice Only) (1)	X109	5/8/01 17:10	E00F3	
ME00F4	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97195 (Ice Only) (1)	X110	5/8/01 17:10	E00F4	
ME00F5	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97197 (Ice Only) (1)	X124	5/8/01 17:45	E00F5	
ME00F6	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97199 (HNO3), 5-97200 (HNO3) (2)	G108	5/8/01 15:35	E00F6	
ME00F7	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97054 (HNO3), 5-97055 (HNO3) (2)	G109	5/8/01 17:30	E00F7	
ME00F8	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97059 (HNO3), 5-97060 (HNO3) (2)	G111	5/8/01 17:45	E00F8	
ME00F9	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97064 (HNO3), 5-97065 (HNO3) (2)	G113	5/9/01 8:10	E00F9	

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF SDG ME00E7
Signature [illegible]
Date May 15, 2001

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: ME00E7	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 1.5, 2.4, 3.4	Chain of Custody Seal Number: 26033 - 26035
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__

TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide

PR provides preliminary results. Requests for preliminary resuls will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-390575112-050901-0002

EPA Contract Laboratory Program
Inorganic Traffic Report

Case No: 29241
DAS No:
SDG No: ME00G1

L

Date Shipped: 5/9/01 Carrier Name: FedEx Airbill: 4684285060 Shipped to: American Analytical & Technical Services, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545	Date Received/Received by: 5-10-01 Lab Contract No: 68W00056 Unit Price: $87.95 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): Bruce Everetts	
		Relinquished By: Date / Time: 5-9/1400	Received By:
		Relinquished By: Date / Time: 5-10-01 8:30	Received By:
		Relinquished By: Date / Time:	Received By:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00G0	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97069 (HNO3), 5-97070 (HNO3) (2)	G105	5/9/01 8:30	E00G0	
ME00G1	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97074 (Ice Only) (1)	X201	5/9/01 9:30	E00G1	
ME00G2	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97076 (Ice Only) (1)	X202	5/9/01 9:45	E00G2	
ME00G3	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97078 (HNO3), 5-97079 (HNO3) (2)	G107	5/9/01 10:20	E00G3	
ME00G4	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97083 (Ice Only) (1)	X203	5/9/01 11:45	E00G4	
ME00G5	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97085 (1)	X204	5/9/01 11:30	E00G5	
ME00G6	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97087 (Ice Only) (1)	X205	5/9/01 12:15	E00G6	
ME00G7	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97089 (Ice Only) (1)	X206	5/9/01 12:30	E00G7	
* ME00G8	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97091 (Ice Only) (1)	X101	5/9/01 12:45	E00G8	

* Lost Sample in SDG AH 5/15/01

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: ME00E7	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 1.5, 2.4, 3.4	Chain of Custody Seal Number: 26033-26035
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__
TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide				

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-390575112-050901-0002

AMERICAN ANALYTICAL & TECHNICAL SERVICES, INC
1700 West Albany / Broken Arrow, Oklahoma 74012 / Office (918) 251-2858 / Fax (918) 251-2599

SDG NARRATIVE

JUN 1 9 2001

CONTRACT: 68W00086 **DATE:6/18/01**
CASE: 29241 **SOW NO.: ILM04.1**
SDG: ME00C7 **EPISODE NO.: 46469**

INORGANIC METAL FRACTION:

Twenty soil samples were submitted for ICP, CN and Hg analysis. No major problems occurred during the digestion or analyses of these samples. The cooler temperatures at time of receipt were at 1.5 and 3.4° Celsius. The cooler temperature inidcator bottle was present.The lab uses a mixture of ICV-1, ICV-2, ICV-3 and ICV-4 for the ICP Initial Calibration Verification analysis. In order to obtain results for sodium and potassium within the calibration range of the TRACE ICP's, the ICV-1 reference solutions is prepared at twice the dilution suggested for the ICV-1 preparation. The sample's analyses were completed according to the following:

SWL SOP #	Method SOP is based
SWL-IN-200	ILM03.0/04.0 (ICP digestion & analysis)
SWL-IN-202	ILM03.0/04.0 (analysis of Hg by cold vapor)
SWL-IN-303	ILM03.0/04.0 (Cyanide)

Initial and Continuing Calibration Checks: No problems

Initial and Continuing Calibration Blanks: The following elements showed low level concentrations below the Contract Required Detection Limit in the Calibration Blank: Ca No action required.

Linearity near the CRDL (CRA & CRI): No problems.

Preparation Blank: No problems.

Lab Control Spikes: No problems.

Matrix Spikes: The following elements were outside the control limits of 75-125% recovery: Sb All associated samples were flagged with a "N" on Form I's. No action required.

Duplicate(s): The following elements were outside the control limits of 0-20% RPD: Al, Ca, Fe, Mg. All associated samples were flagged with a "*" on Form I's. No action required.

Serial Dilution (ICP): No problems.

Sincerely,

Steve Markham
Operations Manager

U.S. EPA - CLP

1

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241 SAS No.: _____ SDG No.:ME00C7

SOW No.: ILM04.0 6/18/01

EPA Sample No.	Lab Sample ID
ME00C7	46469.01
ME00C8	46469.02
ME00C9	46469.03
ME00D1	46469.04
ME00D2	46469.05
ME00D3	46469.06
ME00D4	46469.07
ME00D5	46469.08
ME00D6	46469.09
ME00D7	46469.10
ME00E6	46469.11
ME00E7	46469.12
ME00E7D	46469.13D
ME00E7S	46469.14S
ME00E8	46469.15
ME00E9	46469.16
ME00F0	46469.17
ME00F1	46469.18
ME00F2	46469.19
ME00F3	46469.20

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Steve L. Markham Name: Steve L. Markham

Date: 06/18/01 Title: Operations Manager

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241 SAS No.: _____ SDG No.:ME00C7

SOW No.: ILM04.0

EPA Sample No.	Lab Sample ID
_ME00F4_____	_46469.21_____
_ME00F5_____	_46469.22_____

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES

If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Steve L. Markham Name: Steve L. Markham

Date: 06/18/01 Title: Operations Manager

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00C7

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water): SOIL_ Lab Sample ID: 46469.01

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _71.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	3360		*	P
7440-36-0	Antimony_	12.3	B	N	P
7440-38-2	Arsenic__	10.6			P
7440-39-3	Barium__	102			P
7440-41-7	Beryllium	0.28	U		P
7440-43-9	Cadmium__	0.28	U		P
7440-70-2	Calcium__	1100	B	*	P
7440-47-3	Chromium_	6.4			P
7440-48-4	Cobalt___	0.72	B		P
7440-50-8	Copper___	6.6	B		P
7439-89-6	Iron____	36700		*	P
7439-92-1	Lead____	19.8			P
7439-95-4	Magnesium	1000	B	*	P
7439-96-5	Manganese	51.4			P
7439-97-6	Mercury__	0.06	U		CV
7440-02-0	Nickel___	0.55	U		P
7440-09-7	Potassium	4680			P
7782-49-2	Selenium_	1.2	B		P
7440-22-4	Silver___	0.83	U		P
7440-23-5	Sodium___	1670			P
7440-28-0	Thallium_	2.8			P
7440-62-2	Vanadium_	10.0	B		P
7440-66-6	Zinc____	22.5			P
	Cyanide__	0.07	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00C8

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water): SOIL_ Lab Sample ID: 46469.02

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _50.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	25400		*	P
7440-36-0	Antimony_	5.2	B	N	P
7440-38-2	Arsenic__	6.0			P
7440-39-3	Barium___	361			P
7440-41-7	Beryllium	0.53	B		P
7440-43-9	Cadmium__	0.39	U		P
7440-70-2	Calcium__	637	B	*	P
7440-47-3	Chromium_	8.5			P
7440-48-4	Cobalt___	0.77	U		P
7440-50-8	Copper___	5.8	B		P
7439-89-6	Iron_____	4960		*	P
7439-92-1	Lead_____	113			P
7439-95-4	Magnesium	466	B	*	P
7439-96-5	Manganese	85.8			P
7439-97-6	Mercury__	0.15	B		CV
7440-02-0	Nickel___	0.77	U		P
7440-09-7	Potassium	3070			P
7782-49-2	Selenium_	4.3			P
7440-22-4	Silver___	1.2	U		P
7440-23-5	Sodium___	2070			P
7440-28-0	Thallium_	1.9	U		P
7440-62-2	Vanadium_	41.7			P
7440-66-6	Zinc_____	13.0			P
	Cyanide__	0.10	U		CA

Color Before: GREY_____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00C9

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water): SOIL_ Lab Sample ID: 46469.03

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _55.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	20800		*	P
7440-36-0	Antimony_	3.1	B	N	P
7440-38-2	Arsenic__	4.6			P
7440-39-3	Barium___	241			P
7440-41-7	Beryllium	0.65	B		P
7440-43-9	Cadmium__	0.35	U		P
7440-70-2	Calcium__	4250		*	P
7440-47-3	Chromium_	5.9			P
7440-48-4	Cobalt___	0.70	U		P
7440-50-8	Copper___	4.5	B		P
7439-89-6	Iron____	4090		*	P
7439-92-1	Lead____	88.8			P
7439-95-4	Magnesium	2010		*	P
7439-96-5	Manganese	159			P
7439-97-6	Mercury__	0.11	B		CV
7440-02-0	Nickel___	0.70	U		P
7440-09-7	Potassium	1040	B		P
7782-49-2	Selenium_	3.4			P
7440-22-4	Silver___	1.0	U		P
7440-23-5	Sodium___	1220	B		P
7440-28-0	Thallium_	1.7	U		P
7440-62-2	Vanadium_	32.9			P
7440-66-6	Zinc____	13.9			P
	Cyanide__	0.09	U		CA

Color Before: BLACK____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00D1

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water): SOIL_ Lab Sample ID: 46469.04

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _84.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9730		*	P
7440-36-0	Antimony	19.7		N	P
7440-38-2	Arsenic	9.6			P
7440-39-3	Barium	52.6			P
7440-41-7	Beryllium	0.60	B		P
7440-43-9	Cadmium	0.23	U		P
7440-70-2	Calcium	70000		*	P
7440-47-3	Chromium	18.0			P
7440-48-4	Cobalt	13.5			P
7440-50-8	Copper	27.3			P
7439-89-6	Iron	25400		*	P
7439-92-1	Lead	15.4			P
7439-95-4	Magnesium	31900		*	P
7439-96-5	Manganese	522			P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	27.6			P
7440-09-7	Potassium	2250			P
7782-49-2	Selenium	0.69	U		P
7440-22-4	Silver	0.69	U		P
7440-23-5	Sodium	543	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	20.7			P
7440-66-6	Zinc	70.9			P
	Cyanide	0.06	U		CA

Color Before: BLACK____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00D2

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water): SOIL_ Lab Sample ID: 46469.05

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _79.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9490		*	P
7440-36-0	Antimony	19.5		N	P
7440-38-2	Arsenic	10.0			P
7440-39-3	Barium	53.1			P
7440-41-7	Beryllium	0.58	B		P
7440-43-9	Cadmium	0.25	U		P
7440-70-2	Calcium	60700		*	P
7440-47-3	Chromium	17.1			P
7440-48-4	Cobalt	11.9	B		P
7440-50-8	Copper	25.7			P
7439-89-6	Iron	25000		*	P
7439-92-1	Lead	13.8			P
7439-95-4	Magnesium	29000		*	P
7439-96-5	Manganese	505			P
7439-97-6	Mercury	0.08	B		CV
7440-02-0	Nickel	24.9			P
7440-09-7	Potassium	1860			P
7782-49-2	Selenium	0.74	U		P
7440-22-4	Silver	0.74	U		P
7440-23-5	Sodium	431	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	19.6			P
7440-66-6	Zinc	74.8			P
	Cyanide	0.09	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00D3

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water): SOIL_ Lab Sample ID: 46469.06

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _52.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10500		*	P
7440-36-0	Antimony	7.9	B	N	P
7440-38-2	Arsenic	2.0	B		P
7440-39-3	Barium	65.2	B		P
7440-41-7	Beryllium	0.38	U		P
7440-43-9	Cadmium	0.38	U		P
7440-70-2	Calcium	2500		*	P
7440-47-3	Chromium	9.6			P
7440-48-4	Cobalt	0.76	U		P
7440-50-8	Copper	0.98	B		P
7439-89-6	Iron	2720		*	P
7439-92-1	Lead	10.3			P
7439-95-4	Magnesium	986	B	*	P
7439-96-5	Manganese	20.7			P
7439-97-6	Mercury	0.19			CV
7440-02-0	Nickel	0.76	U		P
7440-09-7	Potassium	413	B		P
7782-49-2	Selenium	1.1	U		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	685	B		P
7440-28-0	Thallium	1.9	U		P
7440-62-2	Vanadium	56.5			P
7440-66-6	Zinc	9.7			P
	Cyanide	0.10	U		CA

Color Before: WHITE____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00D4

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water): SOIL_ Lab Sample ID: 46469.07

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _52.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8920		*	P
7440-36-0	Antimony	9.3	B	N	P
7440-38-2	Arsenic	1.6	B		P
7440-39-3	Barium	119			P
7440-41-7	Beryllium	0.37	U		P
7440-43-9	Cadmium	0.37	U		P
7440-70-2	Calcium	482	B	*	P
7440-47-3	Chromium	7.0			P
7440-48-4	Cobalt	0.73	U		P
7440-50-8	Copper	1.5	B		P
7439-89-6	Iron	2460		*	P
7439-92-1	Lead	33.1			P
7439-95-4	Magnesium	529	B	*	P
7439-96-5	Manganese	10.9			P
7439-97-6	Mercury	0.09	B		CV
7440-02-0	Nickel	0.73	U		P
7440-09-7	Potassium	582	B		P
7782-49-2	Selenium	1.8	B		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	582	B		P
7440-28-0	Thallium	1.8	U		P
7440-62-2	Vanadium	40.6			P
7440-66-6	Zinc	6.0	B		P
	Cyanide	0.10	U		CA

Color Before: WHITE____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00D5

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water): SOIL_ Lab Sample ID: 46469.08

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _52.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11700		*	P
7440-36-0	Antimony	13.0	B	N	P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	172			P
7440-41-7	Beryllium	0.38	U		P
7440-43-9	Cadmium	0.38	U		P
7440-70-2	Calcium	872	B	*	P
7440-47-3	Chromium	7.4			P
7440-48-4	Cobalt	0.76	U		P
7440-50-8	Copper	0.96	B		P
7439-89-6	Iron	2250		*	P
7439-92-1	Lead	62.0			P
7439-95-4	Magnesium	294	B	*	P
7439-96-5	Manganese	3.7	B		P
7439-97-6	Mercury	0.13	B		CV
7440-02-0	Nickel	0.76	U		P
7440-09-7	Potassium	1310	B		P
7782-49-2	Selenium	1.1	U		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	719	B		P
7440-28-0	Thallium	1.9	U		P
7440-62-2	Vanadium	44.2			P
7440-66-6	Zinc	3.8	B		P
	Cyanide	0.10	U		CA

Color Before: WHITE____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00D6

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water): SOIL_ Lab Sample ID: 46469.09

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _58.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	16800		*	P
7440-36-0	Antimony_	4.6	B	N	P
7440-38-2	Arsenic__	4.9			P
7440-39-3	Barium___	293			P
7440-41-7	Beryllium	0.61	B		P
7440-43-9	Cadmium__	0.34	U		P
7440-70-2	Calcium__	2130		*	P
7440-47-3	Chromium_	5.8			P
7440-48-4	Cobalt___	0.68	U		P
7440-50-8	Copper___	6.7	B		P
7439-89-6	Iron____	4060		*	P
7439-92-1	Lead____	96.2			P
7439-95-4	Magnesium	719	B	*	P
7439-96-5	Manganese	172			P
7439-97-6	Mercury__	0.08	B		CV
7440-02-0	Nickel___	0.68	U		P
7440-09-7	Potassium	1480	B		P
7782-49-2	Selenium_	2.4			P
7440-22-4	Silver___	1.0	U		P
7440-23-5	Sodium___	1280	B		P
7440-28-0	Thallium_	1.7	U		P
7440-62-2	Vanadium_	28.9			P
7440-66-6	Zinc____	12.1			P
	Cyanide__	0.09	U		CA

Color Before: BLACK____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00D7

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water): SOIL_ Lab Sample ID: 46469.10

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _75.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	36100	_	*	P_
7440-36-0	Antimony_	20.3	_	N	P_
7440-38-2	Arsenic__	9.7	_		P_
7440-39-3	Barium___	95.9	_		P_
7440-41-7	Beryllium	0.62	B		P_
7440-43-9	Cadmium__	0.26	U		P_
7440-70-2	Calcium__	1710	_	*	P_
7440-47-3	Chromium_	18.0	_		P_
7440-48-4	Cobalt___	7.8	B		P_
7440-50-8	Copper___	23.0	_		P_
7439-89-6	Iron____	28700	_	*	P_
7439-92-1	Lead____	24.4	_		P_
7439-95-4	Magnesium	3560	_	*	P_
7439-96-5	Manganese	213	_		P_
7439-97-6	Mercury__	0.06	U		CV
7440-02-0	Nickel___	13.5	_		P_
7440-09-7	Potassium	2160	_		P_
7782-49-2	Selenium_	1.2	B		P_
7440-22-4	Silver___	0.78	U		P_
7440-23-5	Sodium___	2660	_		P_
7440-28-0	Thallium_	1.5	B		P_
7440-62-2	Vanadium_	30.1	_		P_
7440-66-6	Zinc____	86.7	_		P_
	Cyanide__	0.17	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00E6

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water): SOIL_ Lab Sample ID: 46469.11

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _73.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	12700		*	P
7440-36-0	Antimony_	14.3	B	N	P
7440-38-2	Arsenic__	7.1			P
7440-39-3	Barium___	178			P
7440-41-7	Beryllium	0.64	B		P
7440-43-9	Cadmium__	0.27	U		P
7440-70-2	Calcium__	14900		*	P
7440-47-3	Chromium_	12.8			P
7440-48-4	Cobalt___	7.6	B		P
7440-50-8	Copper___	19.1			P
7439-89-6	Iron____	16500		*	P
7439-92-1	Lead____	49.3			P
7439-95-4	Magnesium	8750		*	P
7439-96-5	Manganese	341			P
7439-97-6	Mercury__	0.08	B		CV
7440-02-0	Nickel___	10.8	B		P
7440-09-7	Potassium	1490			P
7782-49-2	Selenium_	1.9			P
7440-22-4	Silver___	0.82	U		P
7440-23-5	Sodium___	667	B		P
7440-28-0	Thallium_	1.4	U		P
7440-62-2	Vanadium_	24.8			P
7440-66-6	Zinc____	46.4			P
	Cyanide__	0.07	B		CA

Color Before: BLACK____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00E7

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water): SOIL_ Lab Sample ID: 46469.12

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _62.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8610		*	P
7440-36-0	Antimony	3.1	B	N	P
7440-38-2	Arsenic	5.8			P
7440-39-3	Barium	447			P
7440-41-7	Beryllium	0.31	U		P
7440-43-9	Cadmium	0.31	U		P
7440-70-2	Calcium	4330		*	P
7440-47-3	Chromium	4.5			P
7440-48-4	Cobalt	1.6	B		P
7440-50-8	Copper	5.6	B		P
7439-89-6	Iron	4390		*	P
7439-92-1	Lead	109			P
7439-95-4	Magnesium	1310	B	*	P
7439-96-5	Manganese	127			P
7439-97-6	Mercury	0.08	B		CV
7440-02-0	Nickel	0.63	U		P
7440-09-7	Potassium	1460	B		P
7782-49-2	Selenium	2.9			P
7440-22-4	Silver	0.94	U		P
7440-23-5	Sodium	1730			P
7440-28-0	Thallium	1.6	U		P
7440-62-2	Vanadium	23.2			P
7440-66-6	Zinc	13.0			P
	Cyanide	0.08	U		CA

Color Before: BLACK____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00E8

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water): SOIL_ Lab Sample ID: 46469.15

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _78.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	7760		*	P
7440-36-0	Antimony_	13.1	B	N	P
7440-38-2	Arsenic__	4.5			P
7440-39-3	Barium__	84.2			P
7440-41-7	Beryllium	0.54	B		P
7440-43-9	Cadmium__	0.25	U		P
7440-70-2	Calcium__	7870		*	P
7440-47-3	Chromium_	12.2			P
7440-48-4	Cobalt___	6.3	B		P
7440-50-8	Copper___	18.6			P
7439-89-6	Iron____	23500		*	P
7439-92-1	Lead____	12.2			P
7439-95-4	Magnesium	3650		*	P
7439-96-5	Manganese	599			P
7439-97-6	Mercury__	0.06	U		CV
7440-02-0	Nickel___	7.5	B		P
7440-09-7	Potassium	808	B		P
7782-49-2	Selenium_	1.1	B		P
7440-22-4	Silver___	0.76	U		P
7440-23-5	Sodium___	406	B		P
7440-28-0	Thallium_	1.3	U		P
7440-62-2	Vanadium_	18.4			P
7440-66-6	Zinc____	48.2			P
	Cyanide__	0.24	B		CA

Color Before: BLACK____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00E9

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water): SOIL_ Lab Sample ID: 46469.16

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _76.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	39100		*	P
7440-36-0	Antimony	18.7		N	P
7440-38-2	Arsenic	14.4			P
7440-39-3	Barium	81.4			P
7440-41-7	Beryllium	3.4			P
7440-43-9	Cadmium	1.3			P
7440-70-2	Calcium	17800		*	P
7440-47-3	Chromium	19.1			P
7440-48-4	Cobalt	6.4	B		P
7440-50-8	Copper	66.0			P
7439-89-6	Iron	23100		*	P
7439-92-1	Lead	331			P
7439-95-4	Magnesium	6810		*	P
7439-96-5	Manganese	337			P
7439-97-6	Mercury	0.13			CV
7440-02-0	Nickel	15.9			P
7440-09-7	Potassium	1240	B		P
7782-49-2	Selenium	0.79	U		P
7440-22-4	Silver	0.79	U		P
7440-23-5	Sodium	734	B		P
7440-28-0	Thallium	1.3	U		P
7440-62-2	Vanadium	28.5			P
7440-66-6	Zinc	163			P
	Cyanide	0.34	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00F0

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water): SOIL_ Lab Sample ID: 46469.17

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _82.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	15900		*	P
7440-36-0	Antimony_	9.2	B	N	P
7440-38-2	Arsenic__	4.0			P
7440-39-3	Barium___	27.3	B		P
7440-41-7	Beryllium	0.53	B		P
7440-43-9	Cadmium__	0.70	B		P
7440-70-2	Calcium__	197000		*	P
7440-47-3	Chromium_	17.9			P
7440-48-4	Cobalt___	5.4	B		P
7440-50-8	Copper___	17.6			P
7439-89-6	Iron____	13300		*	P
7439-92-1	Lead____	50.2			P
7439-95-4	Magnesium	85800		*	P
7439-96-5	Manganese	938			P
7439-97-6	Mercury__	0.34			CV
7440-02-0	Nickel___	14.3			P
7440-09-7	Potassium	586	B		P
7782-49-2	Selenium_	0.72	U		P
7440-22-4	Silver___	0.81	B		P
7440-23-5	Sodium___	635	B		P
7440-28-0	Thallium_	1.2	U		P
7440-62-2	Vanadium_	23.0			P
7440-66-6	Zinc____	139			P
	Cyanide__	0.09	B		CA

Color Before: BLACK____ Clarity Before: _____ Texture: COARSE

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00F1

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water): SOIL_ Lab Sample ID: 46469.18

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _80.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	12400		*	P_
7440-36-0	Antimony_	9.2	B	N	P_
7440-38-2	Arsenic__	8.0			P_
7440-39-3	Barium___	52.7			P_
7440-41-7	Beryllium	0.87	B		P_
7440-43-9	Cadmium__	3.7			P_
7440-70-2	Calcium__	58400		*	P_
7440-47-3	Chromium_	6.8			P_
7440-48-4	Cobalt___	4.6	B		P_
7440-50-8	Copper___	27.9			P_
7439-89-6	Iron____	12200		*	P_
7439-92-1	Lead____	97.4			P_
7439-95-4	Magnesium	33000		*	P_
7439-96-5	Manganese	409			P_
7439-97-6	Mercury__	0.22			CV
7440-02-0	Nickel___	9.1	B		P_
7440-09-7	Potassium	456	B		P_
7782-49-2	Selenium_	0.93	B		P_
7440-22-4	Silver___	0.73	U		P_
7440-23-5	Sodium___	437	B		P_
7440-28-0	Thallium_	1.2	U		P_
7440-62-2	Vanadium_	10.3	B		P_
7440-66-6	Zinc____	4160			P_
	Cyanide__	0.09	B		CA

Color Before: BLACK____ Clarity Before: _____ Texture: COARSE

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00F2

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water): SOIL_ Lab Sample ID: 46469.19

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _75.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	17100		*	P
7440-36-0	Antimony_	18.7		N	P
7440-38-2	Arsenic__	6.7			P
7440-39-3	Barium___	145			P
7440-41-7	Beryllium	0.89	B		P
7440-43-9	Cadmium__	0.49	B		P
7440-70-2	Calcium__	3860		*	P
7440-47-3	Chromium_	15.1			P
7440-48-4	Cobalt___	8.6	B		P
7440-50-8	Copper___	17.6			P
7439-89-6	Iron____	22500		*	P
7439-92-1	Lead____	19.1			P
7439-95-4	Magnesium	2810		*	P
7439-96-5	Manganese	305			P
7439-97-6	Mercury__	0.09	B		CV
7440-02-0	Nickel___	6.5	B		P
7440-09-7	Potassium	959	B		P
7782-49-2	Selenium_	1.1	B		P
7440-22-4	Silver___	0.78	U		P
7440-23-5	Sodium___	438	B		P
7440-28-0	Thallium_	1.4	B		P
7440-62-2	Vanadium_	23.4			P
7440-66-6	Zinc____	94.8			P
	Cyanide__	0.25	B		CA

Color Before: BLACK____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00F3

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water): SOIL_ Lab Sample ID: 46469.20

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _96.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8310		*	P
7440-36-0	Antimony	12.6		N	P
7440-38-2	Arsenic	10.8			P
7440-39-3	Barium	107			P
7440-41-7	Beryllium	0.51	B		P
7440-43-9	Cadmium	0.74	B		P
7440-70-2	Calcium	53800		*	P
7440-47-3	Chromium	12.8			P
7440-48-4	Cobalt	8.6	B		P
7440-50-8	Copper	12.4			P
7439-89-6	Iron	20600		*	P
7439-92-1	Lead	17.6			P
7439-95-4	Magnesium	29200		*	P
7439-96-5	Manganese	973			P
7439-97-6	Mercury	0.11			CV
7440-02-0	Nickel	9.2			P
7440-09-7	Potassium	832	B		P
7782-49-2	Selenium	0.82	B		P
7440-22-4	Silver	0.59	U		P
7440-23-5	Sodium	440	B		P
7440-28-0	Thallium	0.99	U		P
7440-62-2	Vanadium	23.5			P
7440-66-6	Zinc	62.3			P
	Cyanide	0.14	B		CA

Color Before: BLACK____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00F4

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water): SOIL_ Lab Sample ID: 46469.21

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _66.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13000		*	P
7440-36-0	Antimony	23.3		N	P
7440-38-2	Arsenic	8.1			P
7440-39-3	Barium	73.9			P
7440-41-7	Beryllium	0.29	U		P
7440-43-9	Cadmium	0.94	B		P
7440-70-2	Calcium	4540		*	P
7440-47-3	Chromium	23.1			P
7440-48-4	Cobalt	2.7	B		P
7440-50-8	Copper	690			P
7439-89-6	Iron	27500		*	P
7439-92-1	Lead	166			P
7439-95-4	Magnesium	2610		*	P
7439-96-5	Manganese	78.5			P
7439-97-6	Mercury	0.62			CV
7440-02-0	Nickel	0.58	U		P
7440-09-7	Potassium	1770			P
7782-49-2	Selenium	1.9			P
7440-22-4	Silver	0.87	U		P
7440-23-5	Sodium	458	B		P
7440-28-0	Thallium	1.6	B		P
7440-62-2	Vanadium	56.9			P
7440-66-6	Zinc	85.0			P
	Cyanide	0.21	B		CA

Color Before: BLACK____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00F5

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water): SOIL_ Lab Sample ID: 46469.22

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _72.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	16500	_	*	P_
7440-36-0	Antimony_	17.0	_	N	P_
7440-38-2	Arsenic__	7.1	_		P_
7440-39-3	Barium___	141	_		P_
7440-41-7	Beryllium	0.81	B		P_
7440-43-9	Cadmium__	0.48	B		P_
7440-70-2	Calcium__	4960	_	*	P_
7440-47-3	Chromium_	13.3	_		P_
7440-48-4	Cobalt___	7.3	B		P_
7440-50-8	Copper___	19.8	_		P_
7439-89-6	Iron____	31600	_	*	P_
7439-92-1	Lead____	22.1	_		P_
7439-95-4	Magnesium	2120	_	*	P_
7439-96-5	Manganese	345	_		P_
7439-97-6	Mercury__	0.08	B		CV
7440-02-0	Nickel___	4.0	B		P_
7440-09-7	Potassium	1160	B		P_
7782-49-2	Selenium_	1.2	B		P_
7440-22-4	Silver___	0.82	U		P_
7440-23-5	Sodium___	525	B		P_
7440-28-0	Thallium_	1.9	B		P_
7440-62-2	Vanadium_	21.3	_		P_
7440-66-6	Zinc____	107	_		P_
_____	Cyanide__	0.23	B		CA

Color Before: BLACK____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Preparation Blank Matrix (soil/water): SOIL_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	12.0	U	16.5	B	12.0	U	12.0	U	2.40	U	P
Antimony	6.0	U	6.0	U	6.0	U	6.0	U	1.20	U	P
Arsenic	3.0	U	3.0	U	3.0	U	3.0	U	0.60	U	P
Barium	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Calcium	8.0	U	18.6	B	10.7	B	17.5	B	1.60	U	P
Chromium	2.0	U	2.0	U	2.0	U	2.0	U	0.40	U	P
Cobalt	2.0	U	2.0	U	2.0	U	2.0	U	0.40	U	P
Copper	2.0	U	2.0	U	2.0	U	2.0	U	0.40	U	P
Iron	16.0	U	-19.2	B	-20.6	B	-41.8	B	3.20	U	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	0.40	U	P
Magnesium	40.0	U	40.0	U	40.0	U	40.0	U	8.00	U	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.05	U	CV
Nickel	2.0	U	-12.6	B	-12.7	B	-23.2	B	-4.76	B	P
Potassium	24.0	U	24.0	U	24.0	U	24.0	U	4.80	U	P
Selenium	3.0	U	3.0	U	3.0	U	3.0	U	0.60	U	P
Silver	3.0	U	3.0	U	3.0	U	3.0	U	0.60	U	P
Sodium	18.0	U	18.0	U	18.0	U	18.0	U	3.60	U	P
Thallium	5.0	U	5.0	U	5.0	U	5.0	U	1.00	U	P
Vanadium	3.0	U	3.0	U	3.0	U	3.0	U	0.60	U	P
Zinc	1.0	U	1.0	U	1.0	U	1.0	U	-0.25	B	P
Cyanide	-1.4	B	-1.4	B	-1.7	B	-1.2	B	0.05	U	CA

3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			-25.0	B	-18.9	B					P
Antimony			6.0	U	6.0	U					P
Arsenic			3.0	U	3.0	U					P
Barium			1.0	U	1.0	U					P
Beryllium			1.0	U	1.0	U					P
Cadmium			1.0	U	1.0	U					P
Calcium			8.0	U	8.0	U					P
Chromium			2.0	U	2.0	U					P
Cobalt			2.0	U	2.0	U					P
Copper			2.0	U	2.0	U					P
Iron			-48.9	B	-44.8	B					P
Lead			2.0	U	2.0	U					P
Magnesium			40.0	U	40.0	U					P
Manganese			1.0	U	1.0	U					P
Mercury			0.1	U	0.1	U	0.1	U			CV
Nickel			-23.7	B	-23.9	B					P
Potassium			24.0	U	24.0	U					P
Selenium			3.0	U	3.0	U					P
Silver			3.0	U	3.0	U					P
Sodium			18.0	U	18.0	U					P
Thallium			5.0	U	5.0	U					P
Vanadium			3.0	U	3.0	U					P
Zinc			-1.1	B	1.0	U					P
Cyanide			-1.3	B							CA

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BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony	6.0	U	6.0	U	6.0	U					P
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium	14.0	B	19.9	B	15.4	B					P
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc	1.0	U	1.0	U	1.0	U					P
Cyanide											NR

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00E7S

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086

Lab Code: AATS Case No.: 29241 SAS No.: SDG No.: ME00C7

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 62.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	88.4223		3.0660	B	157.41	54.2	N	P
Arsenic	75-125	19.7491		5.7643		12.59	111.1		P
Barium	75-125	1134.4699		446.5161		629.63	109.3		P
Beryllium	75-125	18.2282		0.3148	U	15.74	115.8		P
Cadmium	75-125	16.6453		0.3148	U	15.74	105.8		P
Calcium									NR
Chromium	75-125	75.0079		4.4883		62.96	112.0		P
Cobalt	75-125	178.2345		1.6248	B	157.41	112.2		P
Copper	75-125	94.8723		5.5940	B	78.70	113.4		P
Iron									NR
Lead		117.6804		109.2493		6.30	133.8		P
Magnesium									NR
Manganese	75-125	296.1164		126.5535		157.41	107.7		P
Mercury	75-125	0.7571		0.0825	B	0.76	88.8		CV
Nickel	75-125	161.0310		0.6296	U	157.41	102.3		P
Potassium									NR
Selenium	75-125	5.7775		2.8916		3.15	91.6		P
Silver	75-125	17.8350		0.9445	U	15.74	113.3		P
Sodium									NR
Thallium	75-125	15.8983		1.5741	U	15.74	101.0		P
Vanadium	75-125	193.3218		23.2159		157.41	108.1		P
Zinc	75-125	191.3649		12.9503		157.41	113.3		P
Cyanide	75-125	7.1289		0.0787	U	7.87	90.6		CA

Comments:

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5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO. 38

ME00E7A

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water) : SOIL__ Level (low/med): LOW___

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Added (SA)	%R	Q	M
Aluminum									NR
Antimony		138.90		9.74	B	120.0	107.6		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
anganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

ME00E7D

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Matrix (soil/water): SOIL_ Level (low/med): _LOW__

% Solids for Sample: _62.9 % Solids for Duplicate: __66.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		8608.7689		10713.6121		21.8	*	P
Antimony		3.0660	B	4.3568	B	34.8		P
Arsenic	3.1482	5.7643		6.3747		10.1		P
Barium		446.5161		444.1477		0.5		P
Beryllium		0.3148	U	0.3148	U			P
Cadmium		0.3148	U	0.3148	U			P
Calcium	1574.084	4325.1734		6827.4722		44.9	*	P
Chromium	3.1482	4.4883		5.6680		23.2		P
Cobalt		1.6248	B	2.5308	B	43.6		P
Copper		5.5940	B	6.8498	B	20.2		P
Iron		4388.0653		5977.4890		30.7	*	P
Lead		109.2493		105.6985		3.3		P
Magnesium	1574.084	1309.3183	B	2887.2962		75.2	*	P
Manganese		126.5535		128.5366		1.6		P
Mercury		0.0825	B	0.0757	U	200.0		CV
Nickel		0.6296	U	0.6296	U			P
Potassium		1455.2419	B	1487.9221	B	2.2		P
Selenium	1.5741	2.8916		2.9738		2.8		P
Silver		0.9445	U	0.9445	U			P
Sodium	1574.084	1732.4888		1807.0069		4.2		P
Thallium		1.5741	U	1.5741	U			P
Vanadium	15.7408	23.2159		23.0181		0.9		P
Zinc	6.2963	12.9503		19.1084		38.4		P
Cyanide		0.0787	U	0.0787	U			CA

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LABORATORY CONTROL SAMPLE

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

Solid LCS Source: EPA0996_____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum				309.0	271.3		193.1	424.2	87.8
Antimony				213.0	192.8		129.4	297.2	90.5
Arsenic				930.0	840.5		613.6	1247.0	90.4
Barium				5.3	5.5	B	2.5	8.1	103.8
Beryllium				18.8	19.1		15.3	22.2	101.6
Cadmium				41.6	40.8		32.1	51.1	98.1
Calcium				184000.5	190637.1		142933.0	225376.0	103.6
Chromium				96.6	98.1		77.8	115.4	101.6
Cobalt				140.0	126.7		115.4	165.6	90.5
Copper				6681.0	6667.1		5727.3	7634.0	99.8
Iron				21000.0	17514.2		16831.3	25193.0	83.4
Lead				224.0	215.9		167.6	280.5	96.4
Magnesium				113000.0	112264.4		97493.0	128886.0	99.3
Manganese				201.0	204.5		167.9	234.4	101.7
Mercury				12.3	9.9		7.8	16.9	80.5
Nickel				56.8	45.5		43.5	70.1	80.1
Potassium				102.4	63.4	B	0.0	379.3	61.9
Selenium				37.0	37.3		17.6	56.4	100.8
Silver				20.9	21.5		13.2	28.5	102.9
Sodium				92.8	325.6	B	0.0	277.4	350.9
Thallium				38.1	37.7		24.6	51.6	99.0
Vanadium				65.8	66.1		53.0	78.6	100.5
Zinc				175.0	144.0		127.7	222.1	82.3
Cyanide				5.6	5.8		4.1	7.1	103.6

10
Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

ICP ID Number: TJA_ET2_____ Date: 03/12/01

Flame AA ID Number : _____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	12.0	P
Antimony	206.83		60	6.0	P
Arsenic	189.04		10	3.0	P
Barium	493.41		200	1.0	P
Beryllium	313.04		5	1.0	P
Cadmium	226.50		5	1.0	P
Calcium	317.93		5000	8.0	P
Chromium	267.72		10	2.0	P
Cobalt	228.62		50	2.0	P
Copper	324.75		25	2.0	P
Iron	271.44		100	16.0	P
Lead	220.35		3	2.0	P
Magnesium	279.08		5000	40.0	P
Manganese	257.61		15	1.0	P
Mercury			0.2		NR
Nickel	231.60		40	2.0	P
Potassium	766.49		5000	24.0	P
Selenium	196.03		5	3.0	P
Silver	328.07		10	3.0	P
Sodium	588.99		5000	18.0	P
Thallium	190.87		10	5.0	P
Vanadium	292.40		50	3.0	P
Zinc	213.86		20	1.0	P
Cyanide			10		NR

Comments:

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Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

ICP ID Number: _____ Date: 05/07/01

Flame AA ID Number : LEEMAN_B____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	254.00		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

Comments:

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Instrument Detection Limits (Quarterly)

Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00C7

ICP ID Number: _____ Date: 04/20/01

Flame AA ID Number : LACHAT_____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NP
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide	578.00		10	1.0	CA

Comments:

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PREPARATION LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.:_29241_ SAS No.: _____ SDG No.:ME00C7

Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	05/15/01	1.00	200
ME00C7	05/15/01	1.01	200
ME00C8	05/15/01	1.03	200
ME00C9	05/15/01	1.03	200
ME00D1	05/15/01	1.02	200
ME00D2	05/15/01	1.02	200
ME00D3	05/15/01	1.00	200
ME00D4	05/15/01	1.04	200
ME00D5	05/15/01	1.00	200
ME00D6	05/15/01	1.00	200
ME00D7	05/15/01	1.02	200
ME00E6	05/15/01	1.00	200
ME00E7	05/15/01	1.01	200
ME00E7D	05/15/01	1.01	200
ME00E7S	05/15/01	1.01	200
ME00E8	05/15/01	1.01	200
ME00E9	05/15/01	1.00	200
ME00F0	05/15/01	1.01	200
ME00F1	05/15/01	1.03	200
ME00F2	05/15/01	1.02	200
ME00F3	05/15/01	1.05	200
ME00F4	05/15/01	1.04	200
ME00F5	05/15/01	1.00	200
PBS	05/15/01	1.00	200

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PREPARATION LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.:_29241_ SAS No.: _____ SDG No.:ME00C7

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	05/22/01	0.25	100
ME00C7	05/22/01	0.22	100
ME00C8	05/22/01	0.22	100
ME00C9	05/22/01	0.21	100
ME00D1	05/22/01	0.21	100
ME00D2	05/22/01	0.21	100
ME00D3	05/22/01	0.25	100
ME00D4	05/22/01	0.23	100
ME00D5	05/22/01	0.20	100
ME00D6	05/22/01	0.25	100
ME00D7	05/22/01	0.21	100
ME00E6	05/22/01	0.21	100
ME00E7	05/22/01	0.21	100
ME00E7D	05/22/01	0.21	100
ME00E7S	05/22/01	0.21	100
ME00E8	05/22/01	0.20	100
ME00E9	05/22/01	0.25	100
ME00F0	05/22/01	0.21	100
ME00F1	05/22/01	0.20	100
ME00F2	05/22/01	0.20	100
ME00F3	05/22/01	0.22	100
ME00F4	05/22/01	0.23	100
ME00F5	05/22/01	0.21	100
PBS	05/22/01	0.20	100

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.:_29241_ SAS No.: _____ SDG No.:ME00C7

Method: CA

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	05/16/01	1.00	50
ME00C7	05/16/01	1.01	50
ME00C8	05/16/01	1.00	50
ME00C9	05/16/01	1.01	50
ME00D1	05/16/01	1.00	50
ME00D2	05/16/01	1.00	50
ME00D3	05/16/01	1.00	50
ME00D4	05/16/01	1.00	50
ME00D5	05/16/01	1.00	50
ME00D6	05/16/01	1.00	50
ME00D7	05/16/01	1.03	50
ME00E6	05/16/01	1.05	50
ME00E7	05/16/01	1.01	50
ME00E7D	05/16/01	1.01	50
ME00E7S	05/16/01	1.01	50
ME00E8	05/16/01	1.00	50
ME00E9	05/16/01	1.00	50
ME00F0	05/16/01	1.00	50
ME00F1	05/16/01	1.02	50
ME00F2	05/16/01	1.01	50
ME00F3	05/16/01	1.00	50
ME00F4	05/16/01	1.00	50
ME00F5	05/16/01	1.00	50
PBS	05/16/01	1.00	50

JUN 1 9 2001

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: June 18, 2001

SUBJECT: Review of Data
Received for Review on June 15, 2001

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

The data in this case has not been validated.
We have compiled the CADRE files into a narrative format for the following case:

SITE NAME: American Cyanamide

CASE NUMBER: 29241 SDG NUMBER: ME00G1

Number and Type of Samples: 7 soils

Sample Numbers: ME00G1,2,4-8

Laboratory: AATS Hrs. for Review: 2

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

RECEIVED
JUN 2 2 2001
IEPA-BOL-FSRS

Case Number : 29241
Site Name: American Cyanamide

SDG Number: ME00G1
Laboratory: AATS

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

NUMBER (##) MATRIX samples numbered ##, were collected on DATE. The lab received the samples on DATE in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using CLP SOW ILM04.1 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure.

Assembled By: ESAT
Date: June 18, 2001

Case Number : 29241
Site Name: American Cyanamide

SDG Number: ME00G1
Laboratory: AATS

1. HOLDING TIME:

Holding Time Report

SDG NO: ME00G1

HOLDING TIME CRITERIA

Inorganic

	-- Holding Time --		------- pH -------	
	Primary	Expanded	Primary	Expanded
Metals	180	0	2.0	0.0
Mercury	28	0	2.0	0.0
Cyanide	14	0	12.0	0.0

DC-280: The following inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

ME00G1, ME00G1D, ME00G1S, ME00G2, ME00G4, ME00G5
ME00G6, ME00G7, ME00G8

2. CALIBRATIONS:

Calibration Report

SDG NO: ME00G1

CALIBRATION CRITERIA

Inorganic

Percent Recovery Limits

	--- Primary ---		-- Expanded ---	
	Low	High	Low	High
Cyanide	85.00	115.00	70.00	130.00
AA	90.00	110.00	75.00	125.00
ICP	90.00	110.00	75.00	125.00
Mercury	80.00	120.00	65.00	135.00

DC-301: The following inorganic samples are associated with calibration standards which were not analyzed in the required frequency. Hits are flagged "J" and non-detects are flagged "UJ".

Assembled By: ESAT
Date: June 18, 2001

Case Number : 29241
Site Name: American Cyanamide

SDG Number: ME00G1
Laboratory: AATS

Aluminum
ME00G1, ME00G1D, ME00G2, ME00G4, ME00G5, ME00G6
ME00G7, ME00G8, PBS04

Antimony
ME00G1, ME00G1D, ME00G1S, ME00G2, ME00G4, ME00G5
ME00G6, ME00G7, ME00G8, PBS04

Arsenic
ME00G1, ME00G1D, ME00G1S, ME00G2, ME00G4, ME00G5
ME00G6, ME00G7, ME00G8, PBS04

Barium
ME00G1, ME00G1D, ME00G1S, ME00G2, ME00G4, ME00G5
ME00G6, ME00G7, ME00G8, PBS04

Beryllium
ME00G1, ME00G1D, ME00G1S, ME00G2, ME00G4, ME00G5
ME00G6, ME00G7, ME00G8, PBS04

Cadmium
ME00G1, ME00G1D, ME00G1S, ME00G2, ME00G4, ME00G5
ME00G6, ME00G7, ME00G8, PBS04

Calcium
ME00G1, ME00G1D, ME00G2, ME00G4, ME00G5, ME00G6
ME00G7, ME00G8, PBS04

Chromium
ME00G1, ME00G1D, ME00G1S, ME00G2, ME00G4, ME00G5
ME00G6, ME00G7, ME00G8, PBS04

Cobalt
ME00G1, ME00G1D, ME00G1S, ME00G2, ME00G4, ME00G5
ME00G6, ME00G7, ME00G8, PBS04

Copper
ME00G1, ME00G1D, ME00G1S, ME00G2, ME00G4, ME00G5
ME00G6, ME00G7, ME00G8, PBS04

Iron
ME00G1, ME00G1D, ME00G2, ME00G4, ME00G5, ME00G6
ME00G7, ME00G8, PBS04

Lead
ME00G1, ME00G1D, ME00G1S, ME00G2, ME00G4, ME00G5
ME00G6, ME00G7, ME00G8, PBS04

Magnesium
ME00G1, ME00G1D, ME00G2, ME00G4, ME00G5, ME00G6
ME00G7, ME00G8, PBS04

Manganese
ME00G1, ME00G1D, ME00G1S, ME00G2, ME00G4, ME00G5
ME00G6, ME00G7, ME00G8, PBS04

Nickel
ME00G1, ME00G1D, ME00G1S, ME00G2, ME00G4, ME00G5
ME00G6, ME00G7, ME00G8, PBS04

Selenium
ME00G1, ME00G1D, ME00G1S, ME00G2, ME00G4, ME00G5
ME00G6, ME00G7, ME00G8, PBS04

Silver
ME00G1, ME00G1D, ME00G1S, ME00G2, ME00G4, ME00G5

Assembled By: ESAT
Date: June 18, 2001

ME00G6, ME00G7, ME00G8, PBS04

Thallium
ME00G1, ME00G1D, ME00G1S, ME00G2, ME00G4, ME00G5
ME00G6, ME00G7, ME00G8, PBS04

Vanadium
ME00G1, ME00G1D, ME00G1S, ME00G2, ME00G4, ME00G5
ME00G6, ME00G7, ME00G8, PBS04

Zinc
ME00G1, ME00G1D, ME00G1S, ME00G2, ME00G4, ME00G5
ME00G6, ME00G7, ME00G8, PBS04

CRDL Standards Report

SDG NO: ME00G1

DC-373: The following inorganic samples are associated with a CRDL standard with low percent recovery.

Selenium
ME00G1, ME00G2, ME00G4, ME00G5, ME00G6, ME00G7
ME00G8, PBS04

DC-374: The following inorganic samples are associated with a CRDL standard with high percent recovery.
Hits and non-detects are flagged .

Thallium
ME00G1, ME00G2, ME00G4, ME00G5, ME00G6, ME00G7
ME00G8, PBS04

3. BLANKS:

Laboratory Blanks Report

SDG NO: ME00G1

LABORATORY BLANKS CRITERIA

DC-281: The following inorganic samples have no associated preparation blank.
Manual review of the data is required.

ME00G1
Cyanide

ME00G1D
Cyanide

ME00G1S

Case Number : 29241
Site Name: American Cyanamide

Cyanide

ME00G2
Cyanide

ME00G4
Cyanide

ME00G5
Cyanide

ME00G6
Cyanide

ME00G7
Cyanide

DC-284: The following inorganic samples are associated with a blank concentration which is greater than the instrument detection limit (IDL). The sample concentration is also greater than the IDL and less than five times the blank concentration. Hits are qualified "J"; non-detects are not flagged.

Cyanide
ME00G1A, ME00G1S, ME00G2, ME00G4, ME00G5, ME00G6
ME00G7, ME00G8

DC-338: During review of the following inorganic samples, the reported IDL/default CRDL value was used for cyanide.

ME00G1, ME00G1A, ME00G1D, ME00G1S, ME00G2, ME00G4
ME00G5, ME00G6, ME00G7, ME00G8

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Matrix Spike Report

SDG NO: ME00G1

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

MATRIX SPIKE CRITERIA

Inorganic

Percent Recovery Limits

Upper	125.0
Lower	75.0
Extreme lower	30.0

DC-268: The following inorganic samples are associated with a matrix spike recovery which is low (30-74 %) indicating that sample results may be biased low.
Hits are qualified "J" and non-detects are qualified "UJ".

Mercury

Assembled By: ESAT
Date: June 18, 2001

ME00G1, ME00G1D, ME00G2, ME00G4, ME00G5, ME00G6
ME00G7, ME00G8

DC-269: The following inorganic samples are associated with a matrix spike recovery which is extremely low (<30 %) indicating that sa mple results may be biased low.
Hits are qualified "J" and non-detects are qualified "R".

Cyanide
ME00G1, ME00G1A, ME00G1D, ME00G2, ME00G4, ME00G5
ME00G6, ME00G7, ME00G8

LCS Report

SDG NO: ME00G1

DC-331: The following inorganic soil samples are associated with a solid laboratory control sample (LCS) higher than the EPA control limit it are high, indicating a potential positive bias in the sample results. Hits are qualified "J", non-detects are acceptable.

Sodium
ME00G1, ME00G1D, ME00G2, ME00G4, ME00G5, ME00G6
ME00G7, ME00G8

5. LABORATORY AND FIELD DUPLICATE

Duplicates Report

SDG NO: ME00G1

No problems found for this qualification.

6. ICP ANALYSIS

ICS Report

SDG NO: ME00G1

No problems found for this qualification.

Serial Dilution Report

SDG NO: ME00G1

Assembled By: ESAT
Date: June 18, 2001

Case Number : 29241
Site Name: American Cyanamide

SDG Number: ME00G1
Laboratory: AATS

DC-295: The following inorganic samples are associated with an ICP serial dilution percent difference which is not in criteria. The serial dilution result is greater than the sample result, indicating a potential negative interference. The data must be qualified using professional judgement. Hits are qualified "J", non-detects "UJ".

Zinc
ME00G1, ME00G1D, ME00G1S, ME00G2, ME00G4, ME00G5
ME00G6, ME00G7, ME00G8

7. GFAA ANALYSIS

Furnace AA QC Report

SDG NO: ME00G1

No problems found for this qualification.

8. SAMPLE RESULTS

All data, except those qualified above, are acceptable.

Sample Result Verification Report

SDG NO: ME00G1

No problems found for this qualification.

Assembled By: ESAT
Date: June 18, 2001

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case #: 29241 SDG : ME00G1
Site : AMERICAN CYANAMIDE
Lab. : AATS
Reviewer :
Date :

Number of Soil Samples : 7
Number of Water Samples : 0

Sample Number :	ME00G1		ME00G2		ME00G4		ME00G5		ME00G6	
Sampling Location :	X201		X202		X203		X204		X205	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	05/09/2001		05/09/2001		05/09/2001		05/09/2001		05/09/2001	
Time Sampled :	09:30		09:45		11:45		11:30		12:15	
%Solids :	78.0		85.0		61.0		57.6		38.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	4590	J	1640	J	20800	J	27400	J	3920	J
ANTIMONY	13.1	J	6.2	J	18.0	J	14.9	J	7.7	J
ARSENIC	7.1	J	8.8	J	11.2	J	12.9	J	3.3	J
BARIUM	27.4	J	23.0	J	93.1	J	93.3	J	57.0	J
BERYLLIUM	0.47	J	0.28	J	0.80	J	1.1	J	0.50	UJ
CADMIUM	0.33	J	0.24	J	0.87	J	1.4	J	0.50	UJ
CALCIUM	66000	J	122000	J	43200	J	66900	J	80700	J
CHROMIUM	8.2	J	4.2	J	14.8	J	15.0	J	6.1	J
COBALT	5.5	J	8.7	J	10.0	J	11.1	J	3.5	J
COPPER	17.5	J	6.9	J	32.7	J	53.2	J	9.7	J
IRON	12600	J	8460	J	18600	J	17000	J	8280	J
LEAD	10.9	J	6.8	J	51.8	J	64.1	J	14.2	J
MAGNESIUM	40900	J	77500	J	14700	J	18300	J	11400	J
MANGANESE	278	J	445	J	592	J	628	J	221	J
MERCURY	0.070	J	0.060	UJ	0.14	J	0.15	J	0.13	UJ
NICKEL	12.0	J	8.0	J	25.9	J	25.8	J	8.9	J
POTASSIUM	861		499		1780		1320		872	
SELENIUM	0.76	UJ	0.70	UJ	0.95	UJ	1.0	UJ	1.5	UJ
SILVER	0.76	UJ	0.70	UJ	0.95	UJ	1.0	UJ	1.5	UJ
SODIUM	523	J	485	J	563	J	608	J	1030	J
THALLIUM	1.3	J	1.2	UJ	1.6	UJ	1.7	UJ	2.5	UJ
VANADIUM	12.9	J	10.7	J	19.8	J	19.0	J	8.5	J
ZINC	49.7	J	10.9	J	146	J	184	J	52.3	J
CYANIDE	0.060	R	0.060	J	0.51	J	0.64	J	0.21	J

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29241 SDG : ME00G1
Site : AMERICAN CYANAMIDE
Lab. : AATS
Reviewer :
Date :

Sample Number :	ME00G7		ME00G8		ME00G1D		ME00G1S			
Sampling Location :	X206		X101		X201		X201			
Matrix :	Soil		Soil		Soil		Soil			
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg			
Date Sampled :	05/09/2001		05/09/2001		05/09/2001		05/09/2001			
Time Sampled :	12:30		12:45		09:30		09:30			
%Solids :	38.9		86.4		78.0		78.0			
Dilution Factor :	1.0		1.0		1.0		1.0			
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	6680	J	9080	J	4220	J				
ANTIMONY	15.1	J	17.0	J	11.9	J	115	J		
ARSENIC	7.1	J	7.7	J	6.6	J	17.9	J		
BARIUM	71.8	J	82.4	J	24.5	J	585	J		
BERYLLIUM	0.64	J	0.80	J	0.39	J	13.0	J		
CADMIUM	0.51	UJ	1.0	J	0.29	J	12.8	J		
CALCIUM	79000	J	12000	J	59500	J				
CHROMIUM	11.2	J	13.6	J	7.6	J	63.4	J		
COBALT	6.6	J	7.6	J	5.0	J	125	J		
COPPER	22.2	J	19.1	J	14.9	J	86.2	J		
IRON	16400	J	16500	J	11200	J				
LEAD	27.5	J	34.3	J	9.3	J	15.4	J		
MAGNESIUM	30900	J	7490	J	36400	J				
MANGANESE	504	J	449	J	247	J	404	J		
MERCURY	0.14	J	0.080	J	0.070	J	0.52			
NICKEL	14.9	J	17.2	J	10.7	J	136	J		
POTASSIUM	1130		1630		830					
SELENIUM	1.5	UJ	0.69	UJ	0.76	UJ	2.8	J		
SILVER	1.5	UJ	0.69	UJ	0.76	UJ	13.7	J		
SODIUM	891	J	366	J	412	J				
THALLIUM	2.5	UJ	1.2	J	1.6	J	13.7	J		
VANADIUM	15.8	J	20.8	J	11.6	J	149	J		
ZINC	91.1	J	223	J	46.2	J	183	J		
CYANIDE	0.47	J	0.21	J	0.060	R	0.11	J		

EPA Contract Laboratory Program
Inorganic Traffic Report

Case No: 29241
DAS No:
SDG No: ME00G1

L

Date Shipped: 5/9/01 **Carrier Name:** FedEx **Airbill:** 4684285060 **Shipped to:** American Analytical & Technical Services, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545	**Date Received/Received by:** 5-10-01 **Lab Contract No:** 68W00086 **Unit Price:** $87.85 **Transfer To:** **Date Received/Received By:** **Lab Contract No:** 6/12/01 **Price:**	**Sampler (Signature):** Bruce Everetts **Relinquished By:** [signature] **Date / Time:** 5-9/1400 **Received By:** **Relinquished By:** **Date / Time:** 5-10-01 8:30 **Received By:** [signature] **Relinquished By:** **Date / Time:** **Received By:**	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00G0	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97069 (HNO3), 5-97070 (HNO3) (2)	G105	5/9/01 8:30	E00G0	
ME00G1	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97074 (Ice Only) (1)	X201	5/9/01 9:30	E00G1	
ME00G2	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97076 (Ice Only) (1)	X202	5/9/01 9:45	E00G2	
ME00G3	Ground Water/ Bruce Everetts	L/G	TM (21)	5-97078 (HNO3), 5-97079 (HNO3) (2)	G107	5/9/01 10:20	E00G3	
ME00G4	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97083 (Ice Only) (1)	X203	5/9/01 11:45	E00G4	
ME00G5	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97085 (1)	X204	5/9/01 11:30	E00G5	
ME00G6	Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97087 (Ice Only) (1)	X205	5/9/01 12:15	E00G6	
ME00G7	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97089 (Ice Only) (1)	X206	5/9/01 12:30	E00G7	
ME00G8	Soil/Sediment/ Bruce Everetts	L/G	TM/CN (21)	5-97091 (Ice Only) (1)	X101	5/9/01 12:45	E00G8	

Shipment for Case Complete? Y	**Sample(s) to be used for laboratory QC:** ME00E7	**Additional Sampler Signature(s):**	**Cooler Temperature Upon Receipt:** 1.5, 2.4, 3.4	**Chain of Custody Seal Number:** 26033-26035
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G		**Custody Seal Intact?**__ **Shipment Iced?**__

TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide

PR provides preliminary results. Requests for preliminary resuls will increase analytical costs.
Send Copy/ ontract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Restr \. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Nu...er: 5-390575112-050901-0002

AMERICAN ANALYTICAL & TECHNICAL SERVICES, INC
1700 West Albany / Broken Arrow, Oklahoma 74012 / Office (918) 251-2858 / Fax (918) 251-2599

SDG NARRATIVE

CONTRACT: 68W00086 **DATE:06/08/01**
CASE:29241 **SOW NO.: ILM04.1**
SDG:ME00G1 **EPISODE NO.:46470**

INORGANIC METAL FRACTION:

7 soil/___water samples was/were submitted for ICP, CN and Hg analysis. No major problems occurred during the digestion or analyses/analysis of these samples. The cooler temperatures at time of receipt were at 3.4 °Celsius. The lab uses a mixture of ICV-1, ICV-2, ICV-3 and ICV-4 for the ICP Initial Calibration Verification analysis. In order to obtain results for sodium and potassium within the calibration range of the TRACE ICP's, the ICV-1 reference solutions is prepared at twice the dilution suggested for the ICV-1 preparation. The sample's analyses were completed according to the following:

SWL SOP #	Method SOP is based
SWL-IN-200	ILM03.0/04.0 (ICP digestion & analysis)
SWL-IN-202	ILM03.0/04.0 (analysis of Hg by cold vapor)
SWL-IN-303	ILM03.0/04.0 (Cyanide)

Initial and Continuing Calibration Checks: No problems

Initial and Continuing Calibration Blanks: The following elements showed low level concentrations below the Contract Required Detection Limit in the Calibration Blank: Al, Ba
No action required.

Linearity near the CRDL (CRA & CRI): no problems

Preparation Blank: The following elements showed low level concentrations below the Contract Required Detection Limit in the Preparation Blank: Al, Zn
No action required.

Lab Control Spikes: No problems.

Matrix Spikes: The following elements were outside the control limits of 75-125% recovery: Hg, Cn
All associated samples were flagged with a "N" on Form I's. No action required.

Duplicate(s): no problems

Serial Dilution (ICP): The soil serial dilution was outside the control limits of 10% for the following elements: Zn

AMERICAN ANALYTICAL & TECHNICAL SERVICES, INC
1700 West Albany / Broken Arrow, Oklahoma 74012 / Office (918) 251-2858 / Fax (918) 251-2599

All associated samples were flagged with an "E" on Form I's. No action required.

Sincerely,

Steve Markham
Operations Manager

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241 SAS No.: _____ SDG No.:ME00G1

SOW No.: ILM04.0

EPA Sample No.	Lab Sample ID
_ME00G1_____	_46470.01_____
_ME00G1D_____	_46470.01D_____
_ME00G1S_____	_46470.01S_____
_ME00G2_____	_46470.02_____
_ME00G4_____	_46470.03_____
_ME00G5_____	_46470.04_____
_ME00G6_____	_46470.05_____
_ME00G7_____	_46470.06_____
_ME00G8_____	_46470.07_____

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:
____THE_"E"_FLAG_FOR_ZINC_IS_DUE_TO_THE_SERIAL_DILUTION_PERCENT_DIFFERENCE___
____BEING_GREATER_THAN_10%._____

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Steve L. Markham_____

Date: _____ Title: Operations Manager_____

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00G1

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00G1

Matrix (soil/water): SOIL_ Lab Sample ID: 46470.01

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _78.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	4590			P
7440-36-0	Antimony_	13.1	B		P
7440-38-2	Arsenic__	7.1			P
7440-39-3	Barium___	27.4	B		P
7440-41-7	Beryllium	0.47	B		P
7440-43-9	Cadmium__	0.33	B		P
7440-70-2	Calcium__	66000			P
7440-47-3	Chromium_	8.2			P
7440-48-4	Cobalt___	5.5	B		P
7440-50-8	Copper___	17.5			P
7439-89-6	Iron____	12600			P
7439-92-1	Lead____	10.9			P
7439-95-4	Magnesium	40900			P
7439-96-5	Manganese	278			P
7439-97-6	Mercury__	0.06	B	N	CV
7440-02-0	Nickel___	12.0			P
7440-09-7	Potassium	861	B		P
7782-49-2	Selenium_	0.76	U		P
7440-22-4	Silver___	0.76	U		P
7440-23-5	Sodium___	523	B		P
7440-28-0	Thallium_	1.3	B		P
7440-62-2	Vanadium_	12.9			P
7440-66-6	Zinc____	49.7		E	P
	Cyanide__	0.06	U	N	CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM04.1

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00G2

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00G1

Matrix (soil/water): SOIL_ Lab Sample ID: 46470.02

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1640			P
7440-36-0	Antimony	6.2	B		P
7440-38-2	Arsenic	8.8			P
7440-39-3	Barium	23.0	B		P
7440-41-7	Beryllium	0.28	B		P
7440-43-9	Cadmium	0.24	B		P
7440-70-2	Calcium	122000			P
7440-47-3	Chromium	4.2			P
7440-48-4	Cobalt	8.7	B		P
7440-50-8	Copper	6.9			P
7439-89-6	Iron	8460			P
7439-92-1	Lead	8.8			P
7439-95-4	Magnesium	77500			P
7439-96-5	Manganese	445			P
7439-97-6	Mercury	0.06	U	N	CV
7440-02-0	Nickel	8.0	B		P
7440-09-7	Potassium	499	B		P
7782-49-2	Selenium	0.70	U		P
7440-22-4	Silver	0.70	U		P
7440-23-5	Sodium	465	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	10.7	B		P
7440-66-6	Zinc	10.9		E	P
	Cyanide	0.06	B	N	CA

Color Before: BROWN____ Clarity Before: _____ Texture: COURSE

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM04.1

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00G4

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00G1

Matrix (soil/water): SOIL_ Lab Sample ID: 46470.03

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _61.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	20800			P
7440-36-0	Antimony_	18.0	B		P
7440-38-2	Arsenic__	11.2			P
7440-39-3	Barium__	93.1			P
7440-41-7	Beryllium	0.80	B		P
7440-43-9	Cadmium__	0.87	B		P
7440-70-2	Calcium__	43200			P
7440-47-3	Chromium_	14.8			P
7440-48-4	Cobalt___	10	B		P
7440-50-8	Copper___	32.7			P
7439-89-6	Iron____	18600			P
7439-92-1	Lead____	51.8			P
7439-95-4	Magnesium	14700			P
7439-96-5	Manganese	592			P
7439-97-6	Mercury__	0.14		N	CV
7440-02-0	Nickel___	25.9			P
7440-09-7	Potassium	1780			P
7782-49-2	Selenium_	0.95	U		P
7440-22-4	Silver___	0.95	U		P
7440-23-5	Sodium___	563	B		P
7440-28-0	Thallium_	1.6	U		P
7440-62-2	Vanadium_	19.8			P
7440-66-6	Zinc____	146		E	P
	Cyanide__	0.51	B	N	CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM04.1

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00G5

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00G1

Matrix (soil/water): SOIL_ Lab Sample ID: 46470.04

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _57.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	27400	_		P_
7440-36-0	Antimony_	14.9	B		P_
7440-38-2	Arsenic__	12.9	_		P_
7440-39-3	Barium__	93.3	_		P_
7440-41-7	Beryllium	1.1	B		P_
7440-43-9	Cadmium__	1.4	B		P_
7440-70-2	Calcium__	66900	_		P_
7440-47-3	Chromium_	15.0	_		P_
7440-48-4	Cobalt___	11.1	B		P_
7440-50-8	Copper___	53.2	_		P_
7439-89-6	Iron____	17000	_		P_
7439-92-1	Lead____	64.1	_		P_
7439-95-4	Magnesium	18300	_		P_
7439-96-5	Manganese	628	_		P_
7439-97-6	Mercury__	0.15	B	N	CV
7440-02-0	Nickel___	25.8	_		P_
7440-09-7	Potassium	1320	B		P_
7782-49-2	Selenium_	1.0	U		P_
7440-22-4	Silver___	1.0	U		P_
7440-23-5	Sodium___	608	B		P_
7440-28-0	Thallium_	1.7	U		P_
7440-62-2	Vanadium_	19.0	_		P_
7440-66-6	Zinc____	184	_	E	P_
	Cyanide__	0.64	B	N	CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00G6

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00G1

Matrix (soil/water): SOIL_ Lab Sample ID: 46470.05

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _38.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	3920	_		P_
7440-36-0	Antimony_	7.7	B		P_
7440-38-2	Arsenic__	3.3	B		P_
7440-39-3	Barium__	57.0	B		P_
7440-41-7	Beryllium	0.50	U		P_
7440-43-9	Cadmium__	0.50	U		P_
7440-70-2	Calcium__	80700	_		P_
7440-47-3	Chromium_	6.1	_		P_
7440-48-4	Cobalt___	3.5	B		P_
7440-50-8	Copper___	9.7	B		P_
7439-89-6	Iron____	8280	_		P_
7439-92-1	Lead____	14.2	_		P_
7439-95-4	Magnesium	11400	_		P_
7439-96-5	Manganese	221	_		P_
7439-97-6	Mercury__	0.13	U	N	CV
7440-02-0	Nickel___	8.9	B		P_
7440-09-7	Potassium	872	B		P_
7782-49-2	Selenium_	1.5	U		P_
7440-22-4	Silver___	1.5	U		P_
7440-23-5	Sodium___	1030	B		P_
7440-28-0	Thallium_	2.5	U		P_
7440-62-2	Vanadium_	8.5	B		P_
7440-66-6	Zinc____	52.3		E	P_
	Cyanide__	0.21	B	N	CA

Color Before: BLACK____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00G7

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00G1

Matrix (soil/water): SOIL_ Lab Sample ID: 46470.06

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _38.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	6680			P
7440-36-0	Antimony_	15.1	B		P
7440-38-2	Arsenic__	7.1			P
7440-39-3	Barium___	71.8	B		P
7440-41-7	Beryllium	0.64	B		P
7440-43-9	Cadmium__	0.51	U		P
7440-70-2	Calcium__	79000			P
7440-47-3	Chromium_	11.2			P
7440-48-4	Cobalt___	6.6	B		P
7440-50-8	Copper___	22.2			P
7439-89-6	Iron____	16400			P
7439-92-1	Lead____	27.5			P
7439-95-4	Magnesium	30900			P
7439-96-5	Manganese	504			P
7439-97-6	Mercury__	0.14	B	N	CV
7440-02-0	Nickel___	14.9	B		P
7440-09-7	Potassium	1130	B		P
7782-49-2	Selenium_	1.5	U		P
7440-22-4	Silver___	1.5	U		P
7440-23-5	Sodium___	891	B		P
7440-28-0	Thallium_	2.5	U		P
7440-62-2	Vanadium_	15.8	B		P
7440-66-6	Zinc____	91.1		E	P
	Cyanide__	0.47	B	N	CA

Color Before: BLACK____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM04.1

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ME00G8

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00G1

Matrix (soil/water): SOIL_ Lab Sample ID: 46470.07

Level (low/med): LOW__ Date Received: 05/10/01

% Solids: _86.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	9080	_		P_
7440-36-0	Antimony_	17.0	_		P_
7440-38-2	Arsenic__	7.7	_		P_
7440-39-3	Barium___	82.4	_		P_
7440-41-7	Beryllium	0.80	B		P_
7440-43-9	Cadmium__	1.0	B		P_
7440-70-2	Calcium__	12000	_		P_
7440-47-3	Chromium_	13.6	_		P_
7440-48-4	Cobalt___	7.6	B		P_
7440-50-8	Copper___	19.1	_		P_
7439-89-6	Iron_____	16500	_		P_
7439-92-1	Lead_____	34.3	_		P_
7439-95-4	Magnesium	7490	_		P_
7439-96-5	Manganese	449	_		P_
7439-97-6	Mercury__	0.08	B	N	CV
7440-02-0	Nickel___	17.2	_		P_
7440-09-7	Potassium	1630	_		P_
7782-49-2	Selenium_	0.69	U		P_
7440-22-4	Silver___	0.69	U		P_
7440-23-5	Sodium___	366	B		P_
7440-28-0	Thallium_	1.2	B		P_
7440-62-2	Vanadium_	20.8	_		P_
7440-66-6	Zinc_____	223	_	E	P_
_____	Cyanide__	0.21	B	N	CA
_____	_____	_____	_	_____	__

Color Before: BROWN____ Clarity Before: _____ Texture: COURSE

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM04.1

3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00G1

Preparation Blank Matrix (soil/water): SOIL_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	12.0	U	15.7	B	17.1	B	18.9	B	2.80	B	P
Antimony	6.0	U	6.0	U	6.0	U	6.0	U	1.20	U	P
Arsenic	3.0	U	3.0	U	3.0	U	3.0	U	0.60	U	P
Barium	1.0	U	3.6	B	1.0	U	1.0	U	0.20	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Calcium	8.0	U	8.0	U	8.0	U	8.0	U	1.60	U	P
Chromium	2.0	U	2.0	U	2.0	U	2.0	U	0.40	U	P
Cobalt	2.0	U	2.0	U	2.0	U	2.0	U	0.40	U	P
Copper	2.0	U	2.0	U	2.0	U	2.0	U	0.40	U	P
Iron	16.0	U	16.0	U	16.0	U	16.0	U	3.20	U	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	0.40	U	P
Magnesium	40.0	U	40.0	U	40.0	U	40.0	U	8.00	U	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	0.20	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.05	U	CV
Nickel	2.0	U	2.0	U	2.0	U	2.0	U	0.40	U	P
Potassium	24.0	U	24.0	U	24.0	U	24.0	U	4.80	U	P
Selenium	3.0	U	3.0	U	3.0	U	3.0	U	0.60	U	P
Silver	3.0	U	3.0	U	3.0	U	3.0	U	0.60	U	P
Sodium	18.0	U	18.0	U	18.0	U	18.0	U	3.60	U	P
Thallium	5.0	U	5.0	U	5.0	U	5.0	U	1.00	U	P
Vanadium	3.0	U	3.0	U	3.0	U	3.0	U	0.60	U	P
Zinc	1.0	U	-2.3	B	1.0	U	1.0	U	1.08	B	P
Cyanide	-1.4	B	-1.7	B	-1.6	B	-2.0	B	0.05	U	CA

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BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00G1

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
romium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide	-1.5	B	-2.7	B	-2.9	B	-2.0	B			CA

FORM III - IN ILM04.1

U.S. EPA - CLP

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BLANKS

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00G1

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide			-2.5	B							CA

FORM III - IN ILM04.1

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00G1S

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086

Lab Code: AATS Case No.: 29241 SAS No.: SDG No.: ME00G1

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 78.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	114.9243		13.0876	B	126.94	80.2		P
Arsenic	75-125	17.9269		7.1455		10.15	106.2		P
Barium	75-125	584.7504		27.4331	B	507.74	109.8		P
Beryllium	75-125	12.9863		0.4699	B	12.69	98.6		P
Cadmium	75-125	12.8451		0.3310	B	12.69	98.6		P
Calcium									NR
Chromium	75-125	63.4146		8.1802		50.77	108.8		P
Cobalt	75-125	124.5699		5.4999	B	126.94	93.8		P
Copper	75-125	86.1785		17.4882		63.47	108.2		P
Iron									NR
Lead	75-125	15.3554		10.9218		5.08	87.3		P
Magnesium									NR
Manganese	75-125	404.4428		277.5372		126.94	100.0		P
Mercury	75-125	0.5177		0.0647	B	0.61	74.3	N	CV
Nickel	75-125	137.9101		11.9540		126.94	99.2		P
Potassium									NR
Selenium	75-125	2.7766		0.7616	U	2.54	109.3		P
Silver	75-125	13.6905		0.7616	U	12.69	107.9		P
Sodium									NR
Thallium	75-125	13.6778		1.2732	B	12.69	97.8		P
Vanadium	75-125	148.6306		12.9469		126.94	106.9		P
Zinc	75-125	182.7291		49.6662		126.94	104.8		P
Cyanide	75-125	0.1056	B	0.0616	U	6.16	1.7	N	CA

Comments:

FORM V (Part 1) - IN ILM04.1

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00G1A

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00G1

Matrix (soil/water) : SOIL__ Level (low/med): LOW___

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide		21.94		1.00	U	20.0	109.7		CA

Comments:

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

ME00G1D

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00G1

Matrix (soil/water): SOIL_ Level (low/med): _LOW__

% Solids for Sample: _78.0 % Solids for Duplicate: __85.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		4591.5204		4221.7796		8.4		P
Antimony		13.0876	B	11.8662	B	9.8		P
Arsenic	2.5387	7.1455		6.5816		8.2		P
Barium		27.4331	B	24.5113	B	11.2		P
Beryllium		0.4699	B	0.3925	B	17.9		P
Cadmium		0.3310	B	0.2920	B	12.5		P
Calcium		66046.8246		59507.3158		10.4		P
Chromium	2.5387	8.1802		7.5565		7.9		P
Cobalt		5.4999	B	4.9690	B	10.1		P
Copper	6.3468	17.4882		14.8682		16.2		P
Iron		12601.1962		11197.1038		11.8		P
Lead		10.9218		9.3039		16.0		P
Magnesium		40889.3793		36402.5303		11.6		P
Manganese		277.5372		247.3514		11.5		P
Mercury		0.0647	B	0.0659	B	1.8		CV
Nickel	10.1549	11.9540		10.6954		11.1		P
Potassium		860.9271	B	829.9586	B	3.7		P
Selenium		0.7616	U	0.7616	U			P
Silver		0.7616	U	0.7616	U			P
Sodium		522.5720	B	412.3935	B	23.6		P
Thallium		1.2732	B	1.6047	B	23.0		P
Vanadium	12.6936	12.9469		11.5809	B	11.1		P
Zinc		49.6662		46.1901		7.3		P
Cyanide		0.0616	U	0.0616	U			CA

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7

LABORATORY CONTROL SAMPLE

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00G1

Solid LCS Source: EPA0996_____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum				309.0	276.8		193.1	424.2	89.6
Antimony				213.0	189.1		129.4	297.2	88.8
Arsenic				930.0	813.8		613.6	1247.0	87.5
Barium				5.3	5.4	B	2.5	8.1	101.9
Beryllium				18.8	18.0		15.3	22.2	95.7
Cadmium				41.6	39.5		32.1	51.1	95.0
Calcium				184000.5	185128.1		142933.0	225376.0	100.6
Chromium				96.6	94.4		77.8	115.4	97.7
Cobalt				140.0	120.0		115.4	165.6	85.7
Copper				6681.0	6622.8		5727.3	7634.0	99.1
Iron				21000.0	17136.1		16831.3	25193.0	81.6
Lead				224.0	209.5		167.6	280.5	93.5
Magnesium				113000.0	109997.1		97493.0	128886.0	97.3
Manganese				201.0	199.6		167.9	234.4	99.3
Mercury				12.3	10.3		7.8	16.9	83.7
Nickel				56.8	48.7		43.5	70.1	85.7
Potassium				102.4	64.9	B	0.0	379.3	63.4
Selenium				37.0	36.0		17.6	56.4	97.3
Silver				20.9	21.4		13.2	28.5	102.4
Sodium				92.8	326.7	B	0.0	277.4	352.0
Thallium				38.1	36.9		24.6	51.6	96.9
Vanadium				65.8	64.2		53.0	78.6	97.6
Zinc				175.0	139.2		127.7	222.1	79.5
Cyanide				5.6	5.6		4.1	7.1	100.0

U.S. EPA - CLP

9

ICP SERIAL DILUTION

EPA SAMPLE NO.

ME00G1L

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00G1

Matrix (soil/water): SOIL_ Level (low/med): LOW__

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	18086.00		18364.85		1.5		P
Antimony	51.55	B	51.21	B	0.7		P
Arsenic	28.15		27.65	B	1.8		P
Barium	108.06	B	110.64	B	2.4		P
Beryllium	1.85	B	5.00	U	100.0		P
Cadmium	1.30	B	5.00	U	100.0		P
Calcium	260158.44		285863.70		9.9		P
Chromium	32.22		35.15	B	9.1		P
Cobalt	21.66	B	25.97	B	19.9		P
Copper	68.89		74.37	B	8.0		P
Iron	49636.11		53152.22		7.1		P
Lead	43.02		48.48		12.7		P
Magnesium	161063.26		166065.48		3.1		P
Manganese	1093.22		1161.13		6.2		P
Mercury							NR
Nickel	47.09		53.89	B	14.4		P
Potassium	3391.19	B	3354.21	B	1.1		P
Selenium	3.00	U	15.00	U			P
Silver	3.00	U	15.00	U			P
Sodium	2058.41	B	2151.79	B	4.5		P
Thallium	5.01	B	25.00	U	100.0		P
Vanadium	51.00		54.72	B	7.3		P
Zinc	195.63		250.99		28.3	E	P

U.S. EPA - CLP

10

Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00G1

ICP ID Number: TJA_ET2_____ Date: 03/12/01

Flame AA ID Number : _____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	12.0	P
Antimony	206.83		60	6.0	P
Arsenic	189.04		10	3.0	P
Barium	493.41		200	1.0	P
Beryllium	313.04		5	1.0	P
Cadmium	226.50		5	1.0	P
Calcium	317.93		5000	8.0	P
Chromium	267.72		10	2.0	P
Cobalt	228.62		50	2.0	P
Copper	324.75		25	2.0	P
Iron	271.44		100	16.0	P
Lead	220.35		3	2.0	P
Magnesium	279.08		5000	40.0	P
Manganese	257.61		15	1.0	P
Mercury			0.2		NR
Nickel	231.60		40	2.0	P
Potassium	766.49		5000	24.0	P
Selenium	196.03		5	3.0	P
Silver	328.07		10	3.0	P
Sodium	588.99		5000	18.0	P
Thallium	190.87		10	5.0	P
Vanadium	292.40		50	3.0	P
Zinc	213.86		20	1.0	P
Cyanide			10		NR

Comments:

U.S. EPA - CLP

10
Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00G1

ICP ID Number: _____ Date: 02/23/01

Flame AA ID Number : LEEMAN_A____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	254.00		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

Comments:

U.S. EPA - CLP

10
Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.: 29241_ SAS No.: _____ SDG No.: ME00G1

ICP ID Number: _____ Date: 04/20/01

Flame AA ID Number : LACHAT_____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide	578.00		10	1.0	CA

Comments:

FORM X - IN ILM04.1

U.S. EPA - CLP

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PREPARATION LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.:_29241_ SAS No.: _____ SDG No.:ME00G1

Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	05/15/01	1.00	200
ME00G1	05/15/01	1.01	200
ME00G1D	05/15/01	1.01	200
ME00G1S	05/15/01	1.01	200
ME00G2	05/15/01	1.01	200
ME00G4	05/15/01	1.04	200
ME00G5	05/15/01	1.02	200
ME00G6	05/15/01	1.04	200
ME00G7	05/15/01	1.01	200
ME00G8	05/15/01	1.01	200
PBS	05/15/01	1.00	200

FORM XIII - IN ILM04.1

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.:_29241_ SAS No.: _____ SDG No.:ME00G1

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	05/22/01	0.23	100
ME00G1	05/22/01	0.21	100
ME00G1D	05/22/01	0.21	100
ME00G1S	05/22/01	0.21	100
ME00G2	05/22/01	0.21	100
ME00G4	05/22/01	0.25	100
ME00G5	05/22/01	0.21	100
ME00G6	05/22/01	0.20	100
ME00G7	05/22/01	0.20	100
ME00G8	05/22/01	0.23	100
PBS	05/22/01	0.20	100

FORM XIII - IN ILM04.1

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: AMERICAN_ANALYTICAL_AND_T Contract: 68W00086__

Lab Code: AATS__ Case No.:_29241_ SAS No.: _____ SDG No.:ME00G1

Method: CA

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	05/12/01	1.00	50
ME00G1	05/12/01	1.04	50
ME00G1D	05/12/01	1.04	50
ME00G1S	05/12/01	1.04	50
ME00G2	05/12/01	1.05	50
ME00G4	05/12/01	1.00	50
ME00G5	05/12/01	1.05	50
ME00G6	05/12/01	1.00	50
ME00G7	05/12/01	1.05	50
ME00G8	05/12/01	1.00	50
PBS	05/12/01	1.00	50

MAY 3 1 2001

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE: _____

RECEIVED
JUN 0 6 2001
IEPA-BOL-FSRS

SUBJECT: Electronic (Level 2) Review of Data

Received for Review on 5-29-01

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

RECEIVED
JUN 0 6 2001
IEPA-BOL-FSRS

TO: Data User: IEPA

The following data has been electronically reviewed by CADRE. No review of the raw data, laboratory narrative, laboratory forms or chain-of-custody forms was performed.

SITE NAME: AMERICAN CYANAMIDE (IL)

CASE NUMBER: 29241 SDG NUMBER: E00G1

Number and Type of Samples: 7 Soils

Sample Numbers: E00G1, E00G2, E00G4 - E00G8

Laboratory: COMPUCHEM - LIBERTY Hrs. for Review: _____

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

Case Number : 29241 SDG Number: E00G1
Site Name: AMERICAN CYANAMIDE (IL) Laboratory: COMPU - LIBR

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Seven (7) soil samples, numbered *E00G1, E00G2 and E00G4* through *E00G8*, were collected on *May 9, 2001*. The lab received the samples on *May 10, 2001* in good condition. All samples were analyzed for the semivolatile and pesticide/pcb lists of organic analytes. All were analyzed according to CLP SOW *OLM04.2* 5/99.

Case Number : 29241 SDG Number: E00G1
ite Name: AMERICAN CYANAMIDE (IL) Laboratory: COMPU - LIBRTY

1. HOLDING TIME

No problems found for this qualification.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems found for this qualification.

3. CALIBRATION

CALIBRATION CRITERIA

Semivolatile

	Primary	Expanded
Minimum RRF	0.05	0.05
Maximum %RSD (initial calibration)	30	30
Maximum %D (continuing calibration)	25	25
Calibration time period	12	

Pesticide

Maximum %RSD (initial calibration) - TCL analytes	20
- surrogates	30
Maximum RPD (continuing calibration)	25
INDA/INDB percent resolution	90
Continuing calibration sequence time	12

DC-99: The following semivolatile samples are associated with a continuing calibration relative response factor (RRF50) outside primary criteria.
Hits are flagged "J" and non-detects are qualified "R".

Atrazine
E00G1, E00G1MS, E00G1MSD, E00G2, E00G4, E00G5
E00G6, E00G6DL, E00G7, E00G8, SBLKGI

DC-100: The following semivolatile samples are associated with a

Case Number : 29241 **SDG Number: E00G1**
Site Name: AMERICAN CYANAMIDE (IL) **Laboratory: COMPU - LIBRTY**

continuing calibration percent difference (%D) outside primary criteria.
Hits are qualified "J" and non-detects are qualified "UJ".

Benzaldehyde
E00G6DL

Phenol
E00G6DL

N-Nitroso-di-n-propylamine
E00G1, E00G1MS, E00G1MSD, E00G2, E00G4, E00G5
E00G6, E00G6DL, E00G7, E00G8

4-Chloroaniline
E00G1, E00G1MS, E00G1MSD, E00G2, E00G4, E00G5
E00G6, E00G7, E00G8

Hexachlorocyclopentadiene
E00G1, E00G1MS, E00G1MSD, E00G2, E00G4, E00G5
E00G6, E00G6DL, E00G7, E00G8, SBLKGI

2,4,6-Trichlorophenol
E00G1, E00G1MS, E00G1MSD, E00G2, E00G4, E00G5
E00G6, E00G7, E00G8

2,6-Dinitrotoluene
SBLKGI

2,4-Dinitrophenol
E00G1, E00G1MS, E00G1MSD, E00G2, E00G4, E00G5
E00G6, E00G7, E00G8

4-Nitroaniline
SBLKGI

N-Nitrosodiphenylamine
E00G6DL

Pentachlorophenol
E00G6DL, SBLKGI

Case Number : 29241 **SDG Number: E00G1**
Site Name: AMERICAN CYANAMIDE (IL) **Laboratory: COMPU - LIBRTY**

Pyrene
SBLKGI

Di-n-octylphthalate
E00G1, E00G1MS, E00G1MSD, E00G2, E00G4, E00G5
E00G6, E00G7, E00G8

DC-190: The following pesticide samples are not qualified for initial calibration due to missing calibration information.
Manual review of the data is required.

E00G1, E00G1MS, E00G1MSD, E00G2, E00G4, E00G5
E00G6, E00G7, E00G8, E00G8DL, PBLKGJ

DC-192: The following pesticide samples had no associated continuing calibration. Manual review of the data is required.

E00G8, E00G8DL, PBLKGJ

DC-197: The following pesticide samples are not qualified for continuing calibration because of missing continuing calibration information.
Manual review of the data is required.

E00G1, E00G1MS, E00G1MSD, E00G2, E00G4, E00G5
E00G6, E00G7

4. BLANKS

DC-72: The blank associated with the following sample was qualified "R" during a previous qualification. Hits and non-detects are not flagged.

E00G1
Atrazine

E00G1MS
Atrazine

E00G1MSD
Atrazine

Case Number : 29241 **SDG Number:** E00G1
Site Name: AMERICAN CYANAMIDE (IL) **Laboratory:** COMPU - LIBRTY

E00G2
Atrazine

E00G4
Atrazine

E00G5
Atrazine

E00G6
Atrazine

E00G6DL
Atrazine

E00G7
Atrazine

E00G8
Atrazine

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

No problems found for this qualification.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

MATRIX SPIKE CRITERIA

Semivolatile

Percent Recovery Limits & RPD

	Water			Soil		
	Lower	Upper	RPD	Lower	Upper	RPD
Phenol	12.0	110.0	42.0	26.0	90.0	35.0
2-Chlorophenol	27.0	123.0	40.0	25.0	102.0	50.0
N-Nitroso-di-n-propylamine	41.0	116.0	38.0	41.0	126.0	38.0

Case Number : 29241 **SDG Number:** E00G1
Site Name: AMERICAN CYANAMIDE (IL) **Laboratory:** COMPU - LIBRTY

4-Chloro-3-methylphenol	23.0	97.0	42.0	26.0	103.0	33.0
Acenaphthene	46.0	118.0	31.0	31.0	137.0	19.0
4-Nitrophenol	10.0	80.0	50.0	11.0	114.0	50.0
2,4-Dinitrotoluene	24.0	96.0	38.0	28.0	89.0	47.0
Pentachlorophenol	9.0	103.0	50.0	17.0	109.0	47.0
Pyrene	26.0	127.0	31.0	35.0	142.0	36.0

DC-51: The following semivolatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Results for the outlier compound in the unspiked sample E00G1, is estimated, "J" and a non-detect is estimated, "UJ".

E00G1MS
2,4-Dinitrotoluene

7. FIELD BLANK AND FIELD DUPLICATE

No samples were identified as either field blanks or field duplicates. Results are not qualified based upon the results of the field blank or field duplicates.

8. INTERNAL STANDARDS

No problems found for this qualification.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

CONTRACT REQUIRED SAMPLE QUANTITY

	Water	Low Soil	Med Soil
BNA	1000.0 (ML)	30.0 (G)	1.0 (G)
PES	1000.0 (ML)	30.0 (G)	

DC-110: The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

Case Number : 29241 **SDG Number: E00G1**
Site Name: AMERICAN CYANAMIDE (IL) **Laboratory: COMPU - LIBRTY**

E00G1MS, E00G2
bis(2-Ethylhexyl)phthalate

E00G4
2,4-Dimethylphenol, Phenanthrene, Fluoranthene, Pyrene
Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene

E00G5
Pentachlorophenol, Phenanthrene, Fluoranthene, Pyrene
Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene
Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene

E00G6
Fluoranthene, Pyrene, Butylbenzylphthalate, bis(2-Ethylhexyl)phthalate

E00G6DL
Phenol, bis(2-Ethylhexyl)phthalate

E00G7
Phenanthrene, Anthracene, Carbazole, Indeno(1,2,3-cd)pyrene
Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00G8
Pentachlorophenol, Phenanthrene, Fluoranthene, Pyrene
Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate, Di-n-octylphthalate
Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene

DC-158: The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E00G1MS, E00G1MSD
Endrin ketone

E00G4
4,4'-DDE, Endrin aldehyde

E00G5
4,4'-DDE, 4,4'-DDT

E00G6
alpha-Chlordane

E00G7
beta-BHC

E00G8
Heptachlor, 4,4'-DDE, Endrin, Endosulfan II
4,4'-DDD, Endrin ketone

DC-422: The following pesticide samples have analytes for which the percent difference between column results exceeds primary criteria.
Professional judgement should be used to qualify the data.

E00G1MS
gamma-BHC (Lindane), 4,4'-DDT

E00G1MSD
gamma-BHC (Lindane), Heptachlor, 4,4'-DDT, Endrin ketone

E00G4
beta-BHC, 4,4'-DDE, Endrin aldehyde

E00G5
4,4'-DDE, 4,4'-DDT

E00G6
alpha-Chlordane

E00G8
Heptachlor, 4,4'-DDE, Endrin, Endosulfan II
4,4'-DDD, Endrin ketone

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00G1
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Number of Soil Samples : 7
Number of Water Samples : 0

Sample Number :	E00G1		E00G1MS		E00G1MSD		E00G2		E00G4	
Sampling Location :	X201		X201		X201		X202		X203	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	05/09/2001		05/09/2001		05/09/2001		05/09/2001		05/09/2001	
Time Sampled :	09:30		09:30		09:30		09:45		11:45	
%Moisture :	6		6		6		19		50	
pH :	7.8		7.8		7.8		7.9		7.5	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	350	U	350	U	350	U	410	U	660	U
Phenol	350	U	1800		1900		410	U	660	U
bis-(2-Chloroethyl) ether	350	U	350	U	350	U	410	U	660	U
2-Chlorophenol	350	U	1800		1700		410	U	660	U
2-Methylphenol	350	U	350	U	350	U	410	U	660	U
2,2'-oxybis(1-Chloropropane)	350	U	350	U	350	U	410	U	660	U
Acetophenone	350	U	350	U	350	U	410	U	660	U
4-Methylphenol	350	U	350	U	350	U	410	U	660	U
N-Nitroso-di-n-propylamine	350	UJ	1500	J	1300	J	410	UJ	660	UJ
Hexachloroethane	350	U	350	U	350	U	410	U	660	U
Nitrobenzene	350	U	350	U	350	U	410	U	660	U
Isophorone	350	U	350	U	350	U	410	U	660	U
2-Nitrophenol	350	U	350	U	350	U	410	U	660	U
2,4-Dimethylphenol	350	U	350	U	350	U	410	U	190	J
bis(2-Chloroethoxy)methane	350	U	350	U	350	U	410	U	660	U
2,4-Dichlorophenol	350	U	350	U	350	U	410	U	660	U
Naphthalene	350	U	350	U	350	U	410	U	660	U
4-Chloroaniline	350	UJ	350	UJ	350	UJ	410	UJ	660	UJ
Hexachlorobutadiene	350	U	350	U	350	U	410	U	660	U
Caprolactam	350	U	350	U	350	U	410	U	660	U
4-Chloro-3-methylphenol	350	U	1600		1600		410	U	660	U
2-Methylnaphthalene	350	U	350	U	350	U	410	U	660	U
Hexachlorocyclopentadiene	350	UJ	350	UJ	350	UJ	410	UJ	660	UJ
2,4,6-Trichlorophenol	350	UJ	350	UJ	350	UJ	410	UJ	660	UJ
2,4,5-Trichlorophenol	880	U	880	U	880	U	1000	U	1700	U
1,1'-Biphenyl	350	U	350	U	350	U	410	U	660	U
2-Chloronaphthalene	350	U	350	U	350	U	410	U	660	U
2-Nitroaniline	880	U	880	U	880	U	1000	U	1700	U
Dimethylphthalate	350	U	350	U	350	U	410	U	660	U
2,6-Dinitrotoluene	350	U	350	U	350	U	410	U	660	U
Acenaphthylene	350	U	350	U	350	U	410	U	660	U
3-Nitroaniline	880	U	880	U	880	U	1000	U	1700	U
Acenaphthene	350	U	1800		1600		410	U	660	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00G1
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00G1		E00G1MS		E00G1MSD		E00G2		E00G4	
Sampling Location :	X201		X201		X201		X202		X203	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	05/09/2001		05/09/2001		05/09/2001		05/09/2001		05/09/2001	
Time Sampled :	09:30		09:30		09:30		09:45		11:45	
%Moisture :	6		6		6		19		50	
pH :	7.8		7.8		7.8		7.9		7.5	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	880	UJ	880	UJ	880	UJ	1000	UJ	1700	UJ
4-Nitrophenol	880	U	2400		2100		1000	U	1700	U
Dibenzofuran	350	U	350	U	350	U	410	U	660	U
2,4-Dinitrotoluene	350	UJ	1700		1500		410	U	660	U
Diethylphthalate	350	U	350	U	350	U	410	U	660	U
Fluorene	350	U	350	U	350	U	410	U	660	U
4-Chlorophenyl-phenyl ether	350	U	350	U	350	U	410	U	660	U
4-Nitroaniline	880	U	880	U	880	U	1000	U	1700	U
4,6-Dinitro-2-methylphenol	880	U	880	U	880	U	1000	U	1700	U
N-Nitrosodiphenylamine	350	U	350	U	350	U	410	U	660	U
4-Bromophenyl-phenylether	350	U	350	U	350	U	410	U	660	U
Hexachlorobenzene	350	U	350	U	350	U	410	U	660	U
Atrazine	350	R	350	R	350	R	410	R	660	R
Pentachlorophenol	880	U	1200		1400		1000	U	1700	U
Phenanthrene	350	U	350	U	350	U	410	U	80	J
Anthracene	350	U	350	U	350	U	410	U	660	U
Carbazole	350	U	350	U	350	U	410	U	660	U
Di-n-butylphthalate	350	U	350	U	350	U	410	U	660	U
Fluoranthene	350	U	350	U	350	U	410	U	100	J
Pyrene	350	U	1700		1800		410	U	140	J
Butylbenzylphthalate	350	U	350	U	350	U	410	U	660	U
3,3'-Dichlorobenzidine	350	U	350	U	350	U	410	U	660	U
Benzo(a)anthracene	350	U	350	U	350	U	410	U	660	U
Chrysene	350	U	350	U	350	U	410	U	98	J
bis(2-Ethylhexyl)phthalate	350	U	46	J	1500		340	J	370	J
Di-n-octylphthalate	350	UJ	350	UJ	350	UJ	410	UJ	660	UJ
Benzo(b)fluoranthene	350	U	350	U	350	U	410	U	94	J
Benzo(k)fluoranthene	350	U	350	U	350	U	410	U	660	U
Benzo(a)pyrene	350	U	350	U	350	U	410	U	660	U
Indeno(1,2,3-cd)pyrene	350	U	350	U	350	U	410	U	660	U
Dibenzo(a,h)anthracene	350	U	350	U	350	U	410	U	660	U
Benzo(g,h,i)perylene	350	U	350	U	350	U	410	U	660	U

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00G1
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00G5		E00G6		E00G6DL		E00G7		E00G8	
Sampling Location :	X204		X205		X205		X206		X101	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	05/09/2001		05/09/2001		05/09/2001		05/09/2001		05/09/2001	
Time Sampled :	11:30		12:15		12:15		12:30		12:45	
%Moisture :	42		74		74		26		12	
pH :	7.7		7.0		7.0		7.7		7.4	
Dilution Factor :	1.0		1.0		3.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	570	U	1300	R	3800	R	450	U	380	U
Phenol	570	U	2200	J	1600	J	450	U	380	U
bis-(2-Chloroethyl) ether	570	U	1300	R	3800	R	450	U	380	U
2-Chlorophenol	570	U	1300	R	3800	R	450	U	380	U
2-Methylphenol	570	U	1300	R	3800	R	450	U	380	U
2,2'-oxybis(1-Chloropropane)	570	U	1300	R	3800	R	450	U	380	U
Acetophenone	570	U	1300	R	3800	R	450	U	380	U
4-Methylphenol	570	U	16000	J	15000	J	450	U	380	U
N-Nitroso-di-n-propylamine	570	UJ	1300	R	3800	R	450	UJ	380	UJ
Hexachloroethane	570	U	1300	R	3800	R	450	U	380	U
Nitrobenzene	570	U	1300	R	3800	R	450	U	380	U
Isophorone	570	U	1300	R	3800	R	450	U	380	U
2-Nitrophenol	570	U	1300	R	3800	R	450	U	380	U
2,4-Dimethylphenol	570	U	1300	R	3800	R	450	U	380	U
bis(2-Chloroethoxy)methane	570	U	1300	R	3800	R	450	U	380	U
2,4-Dichlorophenol	570	U	1300	R	3800	R	450	U	380	U
Naphthalene	570	U	1300	R	3800	R	450	U	380	U
4-Chloroaniline	570	UJ	1300	R	3800	R	450	UJ	380	UJ
Hexachlorobutadiene	570	U	1300	R	3800	R	450	U	380	U
Caprolactam	570	U	1300	R	3800	R	450	U	380	U
4-Chloro-3-methylphenol	570	U	1300	R	3800	R	450	U	380	U
2-Methylnaphthalene	570	U	1300	R	3800	R	450	U	380	U
Hexachlorocyclopentadiene	570	UJ	1300	R	3800	R	450	UJ	380	UJ
2,4,6-Trichlorophenol	570	UJ	1300	R	3800	R	450	UJ	380	UJ
2,4,5-Trichlorophenol	1400	U	3200	R	9600	R	1100	U	940	U
1,1'-Biphenyl	570	U	1300	R	3800	R	450	U	380	U
2-Chloronaphthalene	570	U	1300	R	3800	R	450	U	380	U
2-Nitroaniline	1400	U	3200	R	9600	R	1100	U	940	U
Dimethylphthalate	570	U	1300	R	3800	R	450	U	380	U
2,6-Dinitrotoluene	570	U	1300	R	3800	R	450	U	380	U
Acenaphthylene	570	U	1300	R	3800	R	450	U	380	U
3-Nitroaniline	1400	U	3200	R	9600	R	1100	U	940	U
Acenaphthene	570	U	1300	R	3800	R	450	U	380	U

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00G1
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00G5		E00G6		E00G6DL		E00G7		E00G8	
Sampling Location :	X204		X205		X205		X206		X101	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	05/09/2001		05/09/2001		05/09/2001		05/09/2001		05/09/2001	
Time Sampled :	11:30		12:15		12:15		12:30		12:45	
%Moisture :	42		74		74		26		12	
pH :	7.7		7.0		7.0		7.7		7.4	
Dilution Factor :	1.0		1.0		3.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1400	UJ	3200	R	9600	R	1100	UJ	940	UJ
4-Nitrophenol	1400	U	3200	R	9600	R	1100	U	940	U
Dibenzofuran	570	U	1300	R	3800	R	450	U	380	U
2,4-Dinitrotoluene	570	U	1300	R	3800	R	450	U	380	U
Diethylphthalate	570	U	1300	R	3800	R	450	U	380	U
Fluorene	570	U	1300	R	3800	R	450	U	380	U
4-Chlorophenyl-phenyl ether	570	U	1300	R	3800	R	450	U	380	U
4-Nitroaniline	1400	U	3200	R	9600	R	1100	U	940	U
4,6-Dinitro-2-methylphenol	1400	U	3200	R	9600	R	1100	U	940	U
N-Nitrosodiphenylamine	570	U	1300	R	3800	R	450	U	380	U
4-Bromophenyl-phenylether	570	U	1300	R	3800	R	450	U	380	U
Hexachlorobenzene	570	U	1300	R	3800	R	450	U	380	U
Atrazine	570	R	1300	R	3800	R	450	R	380	R
Pentachlorophenol	83	J	3200	R	9600	R	1100	U	47	J
Phenanthrene	130	J	1300	R	3800	R	390	J	160	J
Anthracene	570	U	1300	R	3800	R	150	J	380	U
Carbazole	570	U	1300	R	3800	R	49	J	380	U
Di-n-butylphthalate	570	U	1300	R	3800	R	450	U	380	U
Fluoranthene	210	J	200	J	3800	R	1400		210	J
Pyrene	220	J	220	J	3800	R	1500		300	J
Butylbenzylphthalate	570	U	140	J	3800	R	450	U	380	U
3,3'-Dichlorobenzidine	570	U	1300	R	3800	R	450	U	380	U
Benzo(a)anthracene	120	J	1300	R	3800	R	920		140	J
Chrysene	150	J	1300	R	3800	R	950		140	J
bis(2-Ethylhexyl)phthalate	80	J	600	J	880	J	480		92	J
Di-n-octylphthalate	570	UJ	1300	R	3800	R	450	UJ	230	J
Benzo(b)fluoranthene	140	J	1300	R	3800	R	750		230	J
Benzo(k)fluoranthene	100	J	1300	R	3800	R	620		190	J
Benzo(a)pyrene	120	J	1300	R	3800	R	690		110	J
Indeno(1,2,3-cd)pyrene	76	J	1300	R	3800	R	300	J	91	J
Dibenzo(a,h)anthracene	570	U	1300	R	3800	R	160	J	380	U
Benzo(g,h,i)perylene	570	U	1300	R	3800	R	180	J	380	U

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00G1
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	SBLKGI									
Sampling Location :										
Matrix :	Soil									
Units :	ug/Kg									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	330	U								
Phenol	330	U								
bis-(2-Chloroethyl) ether	330	U								
2-Chlorophenol	330	U								
2-Methylphenol	330	U								
2,2'-oxybis(1-Chloropropane)	330	U								
Acetophenone	330	U								
4-Methylphenol	330	U								
N-Nitroso-di-n-propylamine	330	U								
Hexachloroethane	330	U								
Nitrobenzene	330	U								
Isophorone	330	U								
2-Nitrophenol	330	U								
2,4-Dimethylphenol	330	U								
bis(2-Chloroethoxy)methane	330	U								
2,4-Dichlorophenol	330	U								
Naphthalene	330	U								
4-Chloroaniline	330	U								
Hexachlorobutadiene	330	U								
Caprolactam	330	U								
4-Chloro-3-methylphenol	330	U								
2-Methylnaphthalene	330	U								
Hexachlorocyclopentadiene	330	UJ								
2,4,6-Trichlorophenol	330	U								
2,4,5-Trichlorophenol	830	U								
1,1'-Biphenyl	330	U								
2-Chloronaphthalene	330	U								
2-Nitroaniline	830	U								
Dimethylphthalate	330	U								
2,6-Dinitrotoluene	330	UJ								
Acenaphthylene	330	U								
3-Nitroaniline	830	U								
Acenaphthene	330	U								

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00G1
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	SBLKGI									
Sampling Location :										
Matrix :	Soil									
Units :	ug/Kg									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	830	U								
4-Nitrophenol	830	U								
Dibenzofuran	330	U								
2,4-Dinitrotoluene	330	U								
Diethylphthalate	330	U								
Fluorene	330	U								
4-Chlorophenyl-phenyl ether	330	U								
4-Nitroaniline	830	UJ								
4,6-Dinitro-2-methylphenol	830	U								
N-Nitrosodiphenylamine	330	U								
4-Bromophenyl-phenylether	330	U								
Hexachlorobenzene	330	U								
Atrazine	330	R								
Pentachlorophenol	830	UJ								
Phenanthrene	330	U								
Anthracene	330	U								
Carbazole	330	U								
Di-n-butylphthalate	330	U								
Fluoranthene	330	U								
Pyrene	330	UJ								
Butylbenzylphthalate	330	U								
3,3'-Dichlorobenzidine	330	U								
Benzo(a)anthracene	330	U								
Chrysene	330	U								
bis(2-Ethylhexyl)phthalate	330	U								
Di-n-octylphthalate	330	U								
Benzo(b)fluoranthene	330	U								
Benzo(k)fluoranthene	330	U								
Benzo(a)pyrene	330	U								
Indeno(1,2,3-cd)pyrene	330	U								
Dibenzo(a,h)anthracene	330	U								
Benzo(g,h,i)perylene	330	U								

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00G1
Site : AMERICAN CYANAMIDE
Lab. . LIBRTY
Reviewer :
Date :

Number of Soil Samples 7
Number of Water Samples 0

Sample Number	E00G1		E00G1MS		E00G1MSD		E00G2		E00G4	
Sampling Location .	X201		X201		X201		X202		X203	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	05/09/2001		05/09/2001		05/09/2001		05/09/2001		05/09/2001	
Time Sampled :	09:30		09:30		09:30		09:45		11:45	
%Moisture :	6		6		6		19		50	
pH :	7.8		7.8		7.8		7.9		7.5	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.8	U	1.8	U	1.8	U	2.1	U	3.4	U
beta-BHC	1.8	U	1.8	U	1.8	U	2.6		4.3	
delta-BHC	1.8	U	1.8	U	1.8	U	2.1	U	3.4	U
gamma-BHC (Lindane)	1.8	U	8.4		8.8		2.1	U	3.4	U
Heptachlor	1.8	U	12		11		2.1	U	3.4	U
Aldrin	1.8	U	13		13		2.1	U	3.4	U
Heptachlor epoxide	1.8	U	1.8	U	1.8	U	2.1	U	3.4	U
Endosulfan I	1.8	U	1.8	U	1.8	U	2.1	U	3.4	U
Dieldrin	3.5	U	22		23		4.1	U	6.6	U
4,4'-DDE	3.5	U	3.5	U	3.5	U	4.1	U	2.1	J
Endrin	3.5	U	25		26		4.1	U	6.6	U
Endosulfan II	3.5	U	3.5	U	3.5	U	4.1	U	6.6	U
4,4'-DDD	3.5	U	3.5	U	3.5	U	4.1	U	6.6	U
Endosulfan sulfate	3.5	U	3.5	U	3.5	U	4.1	U	6.6	U
4,4'-DDT	3.5	U	20		20		4.1	U	6.6	U
Methoxychlor	18	U	18	U	18	U	21	U	34	U
Endrin ketone	3.5	U	2.1	J	2.2	J	4.1	U	6.6	U
Endrin aldehyde	3.5	U	3.5	U	3.5	U	4.1	U	1.4	J
alpha-Chlordane	1.8	U	1.8	U	1.8	U	2.1	U	3.4	U
gamma-Chlordane	1.8	U	1.8	U	1.8	U	2.1	U	3.4	U
Toxaphene	180	U	180	U	180	U	210	U	340	U
Aroclor-1016	35	U	35	U	35	U	41	U	66	U
Aroclor-1221	71	U	71	U	71	U	83	U	130	U
Aroclor-1232	35	U	35	U	35	U	41	U	66	U
Aroclor-1242	35	U	35	U	35	U	41	U	66	U
Aroclor-1248	35	U	35	U	35	U	41	U	66	U
Aroclor-1254	35	U	35	U	35	U	41	U	66	U
Aroclor-1260	35	U	35	U	35	U	41	U	66	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00G1
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00G5		E00G6		E00G7		E00G8		E00G8DL	
Sampling Location :	X204		X205		X206		X101		X101	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	05/09/2001		05/09/2001		05/09/2001		05/09/2001		05/09/2001	
Time Sampled :	11:30		12:15		12:30		12:45		12:45	
%Moisture :	42		74		26		12		12	
pH :	7.7		7.0		7.7		7.4		7.4	
Dilution Factor :	1.0		1.0		1.0		1.0		5.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2.9	U	6.5	R	2.3	U	1.9	U	9.7	U
beta-BHC	2.9		6.5	R	1.8	J	1.9	U	9.7	U
delta-BHC	2.9	U	6.5	R	2.3	U	1.9	U	9.7	U
gamma-BHC (Lindane)	2.9	U	6.5	R	2.3	U	1.9	U	9.7	U
Heptachlor	2.9	U	6.5	R	2.3	U	0.93	J	9.7	U
Aldrin	2.9	U	6.5	R	2.3	U	1.9	U	9.7	U
Heptachlor epoxide	2.9	U	6.5	R	2.3	U	1.9	U	9.7	U
Endosulfan I	2.9	U	6.5	R	2.3	U	1.9	U	9.7	U
Dieldrin	5.7	U	13	R	4.5	U	3.8	U	19	U
4,4'-DDE	1.6	J	13	R	4.5	U	3.1	J	52	
Endrin	5.7	U	13	R	4.5	U	3.4	J	19	U
Endosulfan II	5.7	U	13	R	4.5	U	1.2	J	19	U
4,4'-DDD	5.7	U	13	R	4.5	U	2.8	J	19	U
Endosulfan sulfate	5.7	U	13	R	4.5	U	3.8	U	19	U
4,4'-DDT	2.9	J	13	R	4.5	U	130		170	
Methoxychlor	29	U	65	R	23	U	19	U	97	U
Endrin ketone	5.7	U	13	R	4.5	U	1.3	J	19	U
Endrin aldehyde	5.7	U	13	R	4.5	U	3.8	U	19	U
alpha-Chlordane	2.9	U	4.3	J	2.3	U	1.9	U	9.7	U
gamma-Chlordane	5.4		9.7	J	2.3	U	1.9		9.7	U
Toxaphene	290	U	650	R	230	U	190	U	970	U
Aroclor-1016	57	U	130	R	45	U	38	U	190	U
Aroclor-1221	120	U	260	R	91	U	76	U	380	U
Aroclor-1232	57	U	130	R	45	U	38	U	190	U
Aroclor-1242	57	U	130	R	45	U	38	U	190	U
Aroclor-1248	57	U	130	R	45	U	38	U	190	U
Aroclor-1254	57	U	130	R	45	U	38	U	190	U
Aroclor-1260	57	U	130	R	45	U	38	U	190	U

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00G1
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	PBLKGJ									
Sampling Location :										
Matrix :	Soil									
Units :	ug/Kg									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.7	U								
beta-BHC	1.7	U								
delta-BHC	1.7	U								
gamma-BHC (Lindane)	1.7	U								
Heptachlor	1.7	U								
Aldrin	1.7	U								
Heptachlor epoxide	1.7	U								
Endosulfan I	1.7	U								
Dieldrin	3.3	U								
4,4'-DDE	3.3	U								
Endrin	3.3	U								
Endosulfan II	3.3	U								
4,4'-DDD	3.3	U								
Endosulfan sulfate	3.3	U								
4,4'-DDT	3.3	U								
Methoxychlor	17	U								
Endrin ketone	3.3	U								
Endrin aldehyde	3.3	U								
alpha-Chlordane	1.7	U								
gamma-Chlordane	1.7	U								
Toxaphene	170	U								
Aroclor-1016	33	U								
Aroclor-1221	67	U								
Aroclor-1232	33	U								
Aroclor-1242	33	U								
Aroclor-1248	33	U								
Aroclor-1254	33	U								
Aroclor-1260	33	U								

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 5-29-01

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: American Cyanamide (IL)

CASE NUMBER: 29241 SDG NUMBER: E00G1

Number and Type of Samples: 7 (Soil)

Sample Numbers: E00G1-2, E00G4-8

Laboratory: ComPuchem Hrs for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

LIBERTY ANALYTICAL
501 Madison Avenue
Cary, NC 27513

ORIGINAL

SAMPLE DELIVERY GROUP(SDG) TRAFFIC REPORT(TR) COVER SHEET

SDG Number E00G1

Laboratory Name COMPUCHEM

Laboratory Code LIBRTY

Contract No. 68W99070

Case No. 29241

Analysis Price $ 467.00

SDG turnaround 21 DAY

EPA Sample Numbers in SDG (Listed in Numerical order):

1) E00G1	7) E00G8	~~13)~~	~~19)~~	
2) E00G2	8)	14)	~~20)~~	
3) E00G4	9)	15)	21)	
4) E00G5	10)	16)	22)	
5) E00G6	11)	17)	23)	
6) E00G7	~~12)~~	~~18)~~	~~24)~~	

MS 5/10/01

E00G1	E00G8
First Sample in SDG	Last Sample in SDG
05/10/01	05/10/01
First Sample Receipt Date	Last Sample Receipt Date

Note: There are a maximum of 20 **field** samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Signature: _____ Date: 05/10/01

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 29241
DAS No:
SDG No: E00G1, E00E0 L

Date Shipped: 5/9/01 **Carrier Name:** FedEx **Airbill:** 4684285056 **Shipped to:** Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080	**Date Received/Received by:** 5/10/01 M Stor **Lab Contract No:** 68W99070 **Unit Price:** $467 **Transfer To:** **Date Received/Received By:** **Lab Contract No:** **Price:**	**Sampler (Signature):** Bruce Everetts **Relinquished By:** Laura L Roy **Date / Time:** 5-9 / 1400 **Received By:** **Relinquished By:** **Date / Time:** **Received By:** **Relinquished By:** **Date / Time:** 5/10/01, 8:45 **Received By:** Courtney Jl

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00G0	Ground Water/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-97071 (Ice Only), 5-97072 (Ice Only) (2)	G105	5/9/01 8:30	ME00G0	Good
E00G1	Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97075 (Ice Only) (1)	X201	5/9/01 9:30	ME00G1	
E00G2	Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97077 (Ice Only) (1)	X202	5/9/01 9:45	ME00G2	
E00G3	Ground Water/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-97080 (Ice Only), 5-97081 (Ice Only) (2)	G107	5/9/01 10:20	ME00G3	SDG Final Sample
E00G4	Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97084 (Ice Only) (1)	X203	5/9/01 11:45	ME00G4	
E00G5	Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97086 (Ice Only) (1)	X204	5/9/01 11:30	ME00G5	
E00G6	Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97088 (Ice Only) (1)	X205	5/9/01 12:15	ME00G6	
E00G7	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97090 (Ice Only) (1)	X206	5/9/01 12:30	ME00G7	
E00G8	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97092 (Ice Only) (1)	X101	5/9/01 12:45	ME00G8	SDG Final Sample

ORIGINAL

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E00E7	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 20, 5°	Chain of Custody Seal Number: 26025 thru 26032
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs

PR provides preliminary results. Requests for preliminary resuls will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Num)r: 5-390575112-050901-0001

COMPUCHEM
A division of Liberty Analytical Corporation
501 Madison Ave.
Cary, NC 27513

SDG NARRATIVE

CASE #29241
SDG #E00G1
CONTRACT #68W99070

SAMPLE IDENTIFICATIONS:

E00G1	**E00G2**	**E00G4**	**E00G5**	**E00G6**	**E00G7**	**E00G8**

The seven (7) soil samples listed above were received intact, properly refrigerated, with proper documentation, in a sealed shipping container, on May 10, 2001. The temperature of the samples at the time of receipt was 2 to 5°C. The samples were scheduled for the requested analyses of the semivolatile and pesticide/PCB fractions. These samples were analyzed following the current EPA Contract for the Laboratory Program, Document number OLM04.2.

All pertinent Quality Assurance notices are included in the narrative section and all pertinent Laboratory notices are included in the sample data sections.

SEMIVOLATILE
The semivolatile fractions were extracted and analyzed within the required holding time. The percent moisture values for the samples ranged from 6% to 74% and the pH values ranged from 7.0 to 7.9.

Two to eight Target Compound List (TCL) analytes were detected with concentrations above the Contract Required Quantitation Limit (CRQL) in two of the samples. These analytes were phenol, 4-methylphenol, fluoranthene, pyrene, benzo(a)anthracene, chrysene, bis(2-ethylhexyl)phthalate, fbenzo(b)fluoranthene, benzo(k)fluoranthene and benzo(a)pyrene.

In the continuing calibration standards associated with these samples, benzo(b)fluoranthene and benzo(k)fluoranthene were chromatographically resolved and were identified as separate peaks with different retention times. However, in sample E00G8, the isomers could not be chromatographically resolved. This is indicated with "X" flags on the Form I.

Three to thirty-two Tentatively Identified Compounds (TIC) were detected in the samples. Many of these TICs were assessed as unknowns, alcohols, substituted phenanthrenes, benzeneacetic acids, carboxylic acids, amides, cholesterol, PAHs, hexadecanoic acids, phthalates and thiophenes. Other TICs were detected and assessed as unknown alkanes in some of the samples. The TICs that were characterized as alkanes have been summarized on the Alkane Narrative Report that is located in the narrative section of the data package. The TIC spectra for the alkanes are located in the data section for the individual samples.

In the initial undiluted analysis of E00G6, the on-column amount of 4-methylphenol exceeded the instrument's analytical range as defined by the highest concentration level of the Initial Calibration. The sample was reanalyzed at a 3x dilution in order to bring the on-column amount into range. The undiluted and diluted analyses of the sample have been reported and billed for.

QC SUMMARY

All decafluorotriphenylphosphine (DFTPP) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

The surrogates met recovery criteria for the semivolatile fractions. The internal standards met area response and retention time criteria.

E00G1 was used as the original to prepare the duplicate matrix spikes as requested. The duplicate matrix spikes met accuracy and precision criteria, with one exception. The recovery of 2,4-dinitrotoluene was flagged as an outlier in the MS.

The associated blanks met Quality Control criteria.

In the analyses of the Initial and Continuing Calibration standards and all of the samples, manual quantitations were performed. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature:

Patricia B. Hopkins

Patricia B. Hopkins
Data Analyst II
24 May 2001

Note: This report is paginated for reference and accountability in numerical sequence.

ALKANE NARRATIVE REPORT
Report date : 05/25/2001
SDG: E00G1

Client Sample ID: E00G1 Lab Sample ID: E00G1-1 File ID: E00G1-1B70

Compound	RT	Est. Conc.	Q
Branched Alkane	7.74	73.72	J
Straight-Chain Alkane	8.74	73.12	J
Branched Alkane	10.85	207.1	J
Straight-Chain Alkane	15.02	146.5	J
Straight-Chain Alkane	15.94	120.3	J
Straight-Chain Alkane	16.46	106.4	J
Straight-Chain Alkane	17.08	122.3	J
Straight-Chain Alkane	18.76	124.4	J

Client Sample ID: E00G2 Lab Sample ID: E00G1-2 File ID: E00G1-2B70

Compound	RT	Est. Conc.	Q
Branched Alkane	10.83	105.2	J

Client Sample ID: E00G4 Lab Sample ID: E00G1-3 File ID: E00G1-3B70

Compound	RT	Est. Conc.	Q
Branched Alkane	7.74	194.8	J
Straight-Chain Alkane	7.96	151.6	J
Straight-Chain Alkane	8.74	162.5	J
Branched Alkane	9.20	159.3	J
Straight-Chain Alkane	10.16	168.3	J
Straight-Chain Alkane	10.48	192.8	J
Branched Alkane	10.83	632.9	J
Straight-Chain Alkane	11.43	166.7	J
Straight-Chain Alkane	12.02	259.2	J
Straight-Chain Alkane	12.57	148.2	J
Straight-Chain Alkane	14.57	298.9	J
Straight-Chain Alkane	15.02	504.4	J
Straight-Chain Alkane	15.46	262.4	J
Straight-Chain Alkane	15.72	228.7	J
Straight-Chain Alkane	15.92	533.4	J
Branched Alkane	16.11	302.3	J
Branched Alkane	16.46	569.7	J
Straight-Chain Alkane	17.09	1810	J
Straight-Chain Alkane	18.74	1133	J
Branched Alkane	20.53	417.4	J

Client Sample ID: E00G5 Lab Sample ID: E00G1-4 File ID: E00G1-4B70

Compound	RT	Est. Conc.	Q
Branched Alkane	10.84	130.8	J
Cyclic Alkane	12.29	439.2	J
Straight-Chain Alkane	15.03	324.0	J
Straight-Chain Alkane	15.46	270.4	J
Branched Alkane	15.92	313.8	J
Straight-Chain Alkane	17.09	605.5	J
Straight-Chain Alkane	18.73	361.4	J

Client Sample ID: E00G6 Lab Sample ID: E00G1-5 File ID: E00G1-5B70

Compound	RT	Est. Conc.	Q
Cyclic Alkane	11.15	2161	J
Straight-Chain Alkane	15.02	2422	J
Straight-Chain Alkane	15.94	1538	J
Straight-Chain Alkane	17.10	2413	J
Cyclic Alkane	19.50	2154	J
Cyclic Alkane	20.97	4757	J

Client Sample ID: E00G7 Lab Sample ID: E00G1-6 File ID: E00G1-6B70

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	14.11	340.5	J
Straight-Chain Alkane	14.57	596.2	J
Straight-Chain Alkane	15.02	802.1	J
Straight-Chain Alkane	15.46	1269	J
Straight-Chain Alkane	15.94	1267	J
Straight-Chain Alkane	16.48	1466	J
Straight-Chain Alkane	17.10	943.7	J
Straight-Chain Alkane	17.86	464.0	J

Client Sample ID: E00G8 Lab Sample ID: E00G1-7 File ID: E00G1-7B70

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	15.02	241.6	J
Straight-Chain Alkane	15.46	181.5	J
Straight-Chain Alkane	15.94	426.8	J
Unknown Alkane	16.46	411.4	J
Straight-Chain Alkane	18.76	445.7	J
Straight-Chain Alkane	20.53	530.6	J

Client Sample ID: E00G6DL Lab Sample ID: E00G1-5 File ID: E00G1-5DB70

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	10.73	1178	JD
Straight-Chain Alkane	14.93	2041	JD
Straight-Chain Alkane	15.81	2545	JD
Straight-Chain Alkane	16.95	6055	JD

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

CASE #29241
SDG #E00G1
CONTRACT #68W99070

SAMPLE IDENTIFICATIONS: E00G1, E00G2, E00G4, E00G5, E00G6, E00G7, E00G8

The seven soil samples listed above were scheduled for the requested analyses of the pesticide fractions.

Extraction and analysis holding time requirements were met for all of these samples. Samples E00G2, E00G4, E00G5, E00G6 and E00G8 each confirmed target compounds above the reporting limits. Sample E00G8 was analyzed at a billable 5X dilution as well as neat due to target compounds that exceeded the calibration range.

The surrogates were within advisory recovery limits. All surrogates met retention time criteria in the analyses of these samples. The associated method blank met all quality control criteria. The associated duplicate matrix spikes were performed on sample E00G1 and met criteria for all compounds.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted electronically has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Katrina L. Travis
GC/HPLC Manager
May 25, 2001

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

DATA REPORTING QUALIFIERS (continued)

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and all reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	SBLKGI	60	47	61	49	43	44	54	56	0
02	E00G1	60	77	75	63	62	42	67	76	0
03	E00G1MS	62	89	59	65	63	46	66	58	0
04	E00G1MSD	61	84	55	57	56	48	59	49	0
05	E00G2	58	63	60	53	49	45	59	65	0
06	E00G4	49	56	67	54	55	41	58	59	0
07	E00G5	55	61	68	64	59	68	67	53	0
08	E00G6	48	55	47	52	53	54	60	47	0
09	E00G7	46	46	47	38	43	36	44	34	0
10	E00G8	57	68	69	53	50	40	57	66	0
11	E00G6DL	49	60	53	49	50	57	50	33	0
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix Spike - EPA Sample No.: E00G1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	2660	0.00	1843	69	26- 90
2-Chlorophenol	2660	0.00	1808	68	25-102
N-Nitroso-di-n-prop.(1)	1773	0.00	1460	82	41-126
4-Chloro-3-methylphenol	2660	0.00	1568	59	26-103
Acenaphthene	1773	0.00	1803	102	31-137
4-Nitrophenol	2660	0.00	2363	89	11-114
2,4-Dinitrotoluene	1773	0.00	1679	95*	28- 89
Pentachlorophenol	2660	0.00	1196	45	17-109
Pyrene	1773	0.00	1721	97	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	2660	1864	70	1	35	26- 90
2-Chlorophenol	2660	1680	63	8	50	25-102
N-Nitroso-di-n-prop.(1)	1773	1294	73	12	38	41-126
4-Chloro-3-methylphenol	2660	1634	61	3	33	26-103
Acenaphthene	1773	1612	91	11	19	31-137
4-Nitrophenol	2660	2078	78	13	50	11-114
2,4-Dinitrotoluene	1773	1530	86	10	47	28- 89
Pentachlorophenol	2660	1408	53	16	47	17-109
Pyrene	1773	1772	100	3	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 9 outside limits
Spike Recovery: 1 out of 18 outside limits

COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKGI

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Lab File ID: WG10239-1A70 Lab Sample ID: WG10239-1

Instrument ID: 5972HP70 Date Extracted: 05/15/01

Matrix: (soil/water) SOIL Date Analyzed: 05/16/01

Level:(low/med) LOW Time Analyzed: 1832

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E00G1	E00G1-1	E00G1-1B70	05/17/01
02	E00G1MS	WG10239-4	WG10239-4B70	05/17/01
03	E00G1MSD	WG10239-5	WG10239-5B70	05/17/01
04	E00G2	E00G1-2	E00G1-2B70	05/17/01
05	E00G4	E00G1-3	E00G1-3B70	05/17/01
06	E00G5	E00G1-4	E00G1-4B70	05/17/01
07	E00G6	E00G1-5	E00G1-5B70	05/17/01
08	E00G7	E00G1-6	E00G1-6B70	05/17/01
09	E00G8	E00G1-7	E00G1-7B70	05/17/01
10	E00G6DL	E00G1-5	E00G1-5DB70	05/17/01
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COMMENTS:

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G1

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G1-1B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 6 decanted: (Y/N) N Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	350	U
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
98-86-2	Acetophenone	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
105-60-2	Caprolactam	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	880	U
92-52-4	1,1'-Biphenyl	350	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	880	U
131-11-3	Dimethylphthalate	350	U
606-20-2	2,6-Dinitrotoluene	350	U
208-96-8	Acenaphthylene	350	U
99-09-2	3-Nitroaniline	880	U
83-32-9	Acenaphthene	350	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G1

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G1-1B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 6 decanted: (Y/N) N Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	880	U
100-02-7	4-Nitrophenol	880	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
86-73-7	Fluorene	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
100-01-6	4-Nitroaniline	880	U
534-52-1	4,6-Dinitro-2-methylphenol	880	U
86-30-6	N-nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
1912-24-9	Atrazine	350	U
87-86-5	Pentachlorophenol	880	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00G1

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G1-1B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 6 Decanted: (Y/N) N Date Extracted:05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	4.53	280	JB
2.	UNKNOWN (BC)	4.65	800	JB
3.	UNKNOWN	14.60	110	J
4.	UNKNOWN ALCOHOL	16.71	120	J
5.	UNKNOWN	22.93	180	J
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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G1MS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: WG10239-4

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG10239-4B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 6 decanted: (Y/N) N Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	350	U
108-95-2	Phenol	1800	
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	1800	
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
98-86-2	Acetophenone	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	1500	
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
105-60-2	Caprolactam	350	U
59-50-7	4-Chloro-3-methylphenol	1600	
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	880	U
92-52-4	1,1'-Biphenyl	350	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	880	U
131-11-3	Dimethylphthalate	350	U
606-20-2	2,6-Dinitrotoluene	350	U
208-96-8	Acenaphthylene	350	U
99-09-2	3-Nitroaniline	880	U
83-32-9	Acenaphthene	1800	

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G1MS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: WG10239-4

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG10239-4B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 6 decanted: (Y/N) N Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	880	U
100-02-7	4-Nitrophenol	2400	
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	1700	
84-66-2	Diethylphthalate	350	U
86-73-7	Fluorene	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
100-01-6	4-Nitroaniline	880	U
534-52-1	4,6-Dinitro-2-methylphenol	880	U
86-30-6	N-nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
1912-24-9	Atrazine	350	U
87-86-5	Pentachlorophenol	1200	
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	1700	
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	46	J
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

(1) - Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G1MSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: WG10239-5

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG10239-5B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 6 decanted: (Y/N) N Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	350	U
108-95-2	Phenol	1900	
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	1700	
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
98-86-2	Acetophenone	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	1300	
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
105-60-2	Caprolactam	350	U
59-50-7	4-Chloro-3-methylphenol	1600	
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	880	U
92-52-4	1,1'-Biphenyl	350	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	880	U
131-11-3	Dimethylphthalate	350	U
606-20-2	2,6-Dinitrotoluene	350	U
208-96-8	Acenaphthylene	350	U
99-09-2	3-Nitroaniline	880	U
83-32-9	Acenaphthene	1600	

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G1MSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: WG10239-5

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG10239-5B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 6 decanted: (Y/N) N Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	880	U
100-02-7	4-Nitrophenol	2100	
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	1500	
84-66-2	Diethylphthalate	350	U
86-73-7	Fluorene	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
100-01-6	4-Nitroaniline	880	U
534-52-1	4,6-Dinitro-2-methylphenol	880	U
86-30-6	N-nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
1912-24-9	Atrazine	350	U
87-86-5	Pentachlorophenol	1400	
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	1800	
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	1500	
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

(1) - Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G2

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G1-2B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 19 decanted: (Y/N) N Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	410	U
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
98-86-2	Acetophenone	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	410	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G2

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G1-2B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 19 decanted: (Y/N) N Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	J
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00G2

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G1-2B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 19 Decanted: (Y/N) N Date Extracted:05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	4.52	310	JB
2.	UNKNOWN (BC)	4.63	520	JB
3.	UNKNOWN	16.70	85	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G4

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G1-3B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 50 decanted: (Y/N) Y Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	660	U
108-95-2	Phenol	660	U
111-44-4	bis(2-Chloroethyl)ether	660	U
95-57-8	2-Chlorophenol	660	U
95-48-7	2-Methylphenol	660	U
108-60-1	2,2'-oxybis(1-Chloropropane)	660	U
98-86-2	Acetophenone	660	U
106-44-5	4-Methylphenol	660	U
621-64-7	N-Nitroso-di-n-propylamine	660	U
67-72-1	Hexachloroethane	660	U
98-95-3	Nitrobenzene	660	U
78-59-1	Isophorone	660	U
88-75-5	2-Nitrophenol	660	U
105-67-9	2,4-Dimethylphenol	190	J
111-91-1	bis(2-Chloroethoxy)methane	660	U
120-83-2	2,4-Dichlorophenol	660	U
91-20-3	Naphthalene	660	U
106-47-8	4-Chloroaniline	660	U
87-68-3	Hexachlorobutadiene	660	U
105-60-2	Caprolactam	660	U
59-50-7	4-Chloro-3-methylphenol	660	U
91-57-6	2-Methylnaphthalene	660	U
77-47-4	Hexachlorocyclopentadiene	660	U
88-06-2	2,4,6-Trichlorophenol	660	U
95-95-4	2,4,5-Trichlorophenol	1700	U
92-52-4	1,1'-Biphenyl	660	U
91-58-7	2-Chloronaphthalene	660	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	660	U
606-20-2	2,6-Dinitrotoluene	660	U
208-96-8	Acenaphthylene	660	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	660	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G4

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G1-3B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 50 decanted: (Y/N) Y Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	660	U
121-14-2	2,4-Dinitrotoluene	660	U
84-66-2	Diethylphthalate	660	U
86-73-7	Fluorene	660	U
7005-72-3	4-Chlorophenyl-phenylether	660	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-nitrosodiphenylamine (1)	660	U
101-55-3	4-Bromophenyl-phenylether	660	U
118-74-1	Hexachlorobenzene	660	U
1912-24-9	Atrazine	660	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	80	J
120-12-7	Anthracene	660	U
86-74-8	Carbazole	660	U
84-74-2	Di-n-butylphthalate	660	U
206-44-0	Fluoranthene	100	J
129-00-0	Pyrene	140	J
85-68-7	Butylbenzylphthalate	660	U
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)anthracene	660	U
218-01-9	Chrysene	98	J
117-81-7	bis(2-Ethylhexyl)phthalate	370	J
117-84-0	Di-n-octylphthalate	660	U
205-99-2	Benzo(b)fluoranthene	94	J
207-08-9	Benzo(k)fluoranthene	660	U
50-32-8	Benzo(a)pyrene	660	U
193-39-5	Indeno(1,2,3-cd)pyrene	660	U
53-70-3	Dibenzo(a,h)anthracene	660	U
191-24-2	Benzo(g,h,i)perylene	660	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00G4

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-3

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G1-3B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 50 Decanted: (Y/N) Y Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	4.53	600	JB
2.	UNKNOWN (BC)	4.65	1100	JB
3.	UNKNOWN	4.90	170	J
4.	UNKNOWN	7.59	160	J
5. 465-28-1	CAROTOL	10.29	140	NJ
6.	UNKNOWN CARBOXYLIC ACID	11.21	160	J
7.	UNKNOWN	11.66	190	J
8.	UNKNOWN	11.92	140	J
9.	UNKNOWN	12.29	150	J
10.	UNKNOWN CARBOXYLIC ACID	12.39	300	J
11.	UNKNOWN	16.70	860	J
12.	UNKNOWN	20.26	780	J
13.	UNKNOWN	20.97	1200	J
14.	UNKNOWN	21.07	550	J
15.	UNKNOWN	21.29	680	J
16.	UNKNOWN	21.38	380	J
17.	UNKNOWN	21.44	390	J
18.	UNKNOWN	21.68	610	J
19. 58-22-0	TESTOSTERONE	22.09	1000	NJ
20.	UNKNOWN	22.93	360	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G5

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-4

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G1-4B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 42 decanted: (Y/N) Y Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	570	U
108-95-2	Phenol	570	U
111-44-4	bis(2-Chloroethyl)ether	570	U
95-57-8	2-Chlorophenol	570	U
95-48-7	2-Methylphenol	570	U
108-60-1	2,2'-oxybis(1-Chloropropane)	570	U
98-86-2	Acetophenone	570	U
106-44-5	4-Methylphenol	570	U
621-64-7	N-Nitroso-di-n-propylamine	570	U
67-72-1	Hexachloroethane	570	U
98-95-3	Nitrobenzene	570	U
78-59-1	Isophorone	570	U
88-75-5	2-Nitrophenol	570	U
105-67-9	2,4-Dimethylphenol	570	U
111-91-1	bis(2-Chloroethoxy)methane	570	U
120-83-2	2,4-Dichlorophenol	570	U
91-20-3	Naphthalene	570	U
106-47-8	4-Chloroaniline	570	U
87-68-3	Hexachlorobutadiene	570	U
105-60-2	Caprolactam	570	U
59-50-7	4-Chloro-3-methylphenol	570	U
91-57-6	2-Methylnaphthalene	570	U
77-47-4	Hexachlorocyclopentadiene	570	U
88-06-2	2,4,6-Trichlorophenol	570	U
95-95-4	2,4,5-Trichlorophenol	1400	U
92-52-4	1,1'-Biphenyl	570	U
91-58-7	2-Chloronaphthalene	570	U
88-74-4	2-Nitroaniline	1400	U
131-11-3	Dimethylphthalate	570	U
606-20-2	2,6-Dinitrotoluene	570	U
208-96-8	Acenaphthylene	570	U
99-09-2	3-Nitroaniline	1400	U
83-32-9	Acenaphthene	570	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G5

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-4

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G1-4B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 42 decanted: (Y/N) Y Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400	U
100-02-7	4-Nitrophenol	1400	U
132-64-9	Dibenzofuran	570	U
121-14-2	2,4-Dinitrotoluene	570	U
84-66-2	Diethylphthalate	570	U
86-73-7	Fluorene	570	U
7005-72-3	4-Chlorophenyl-phenylether	570	U
100-01-6	4-Nitroaniline	1400	U
534-52-1	4,6-Dinitro-2-methylphenol	1400	U
86-30-6	N-nitrosodiphenylamine (1)	570	U
101-55-3	4-Bromophenyl-phenylether	570	U
118-74-1	Hexachlorobenzene	570	U
1912-24-9	Atrazine	570	U
87-86-5	Pentachlorophenol	83	J
85-01-8	Phenanthrene	130	J
120-12-7	Anthracene	570	U
86-74-8	Carbazole	570	U
84-74-2	Di-n-butylphthalate	570	U
206-44-0	Fluoranthene	210	J
129-00-0	Pyrene	220	J
85-68-7	Butylbenzylphthalate	570	U
91-94-1	3,3'-Dichlorobenzidine	570	U
56-55-3	Benzo(a)anthracene	120	J
218-01-9	Chrysene	150	J
117-81-7	bis(2-Ethylhexyl)phthalate	80	J
117-84-0	Di-n-octylphthalate	570	U
205-99-2	Benzo(b)fluoranthene	140	J
207-08-9	Benzo(k)fluoranthene	100	J
50-32-8	Benzo(a)pyrene	120	J
193-39-5	Indeno(1,2,3-cd)pyrene	76	J
53-70-3	Dibenzo(a,h)anthracene	570	U
191-24-2	Benzo(g,h,i)perylene	570	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00G5

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-4

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G1-4B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 42 Decanted: (Y/N) Y Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

Number TICs found: 18

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	4.52	490	JB
2.	UNKNOWN (BC)	4.65	1100	JB
3.	UNKNOWN	4.91	180	J
4. 97-78-9	GLYCINE, N-METHYL-N-(1-OXODO	11.21	240	NJ
5.	UNKNOWN	11.66	180	J
6.	SUBSTITUTED PHENANTHRENE	12.34	330	J
7.	UNKNOWN	12.39	680	J
8.	UNKNOWN	12.85	200	J
9.	UNKNOWN	12.88	160	J
10.	UNKNOWN	13.37	120	J
11.	UNKNOWN	13.93	120	J
12.	UNKNOWN	19.37	200	J
13.	UNKNOWN	20.26	280	J
14.	UNKNOWN	20.53	290	J
15.	UNKNOWN	20.89	180	J
16.	UNKNOWN	20.97	550	J
17.	UNKNOWN	21.06	220	J
18.	UNKNOWN	22.09	330	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G6

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-5

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G1-5B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 74 decanted: (Y/N) Y Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	1300	U
108-95-2	Phenol	2200	
111-44-4	bis(2-Chloroethyl)ether	1300	U
95-57-8	2-Chlorophenol	1300	U
95-48-7	2-Methylphenol	1300	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1300	U
98-86-2	Acetophenone	1300	U
106-44-5	4-Methylphenol	16000	E
621-64-7	N-Nitroso-di-n-propylamine	1300	U
67-72-1	Hexachloroethane	1300	U
98-95-3	Nitrobenzene	1300	U
78-59-1	Isophorone	1300	U
88-75-5	2-Nitrophenol	1300	U
105-67-9	2,4-Dimethylphenol	1300	U
111-91-1	bis(2-Chloroethoxy)methane	1300	U
120-83-2	2,4-Dichlorophenol	1300	U
91-20-3	Naphthalene	1300	U
106-47-8	4-Chloroaniline	1300	U
87-68-3	Hexachlorobutadiene	1300	U
105-60-2	Caprolactam	1300	U
59-50-7	4-Chloro-3-methylphenol	1300	U
91-57-6	2-Methylnaphthalene	1300	U
77-47-4	Hexachlorocyclopentadiene	1300	U
88-06-2	2,4,6-Trichlorophenol	1300	U
95-95-4	2,4,5-Trichlorophenol	3200	U
92-52-4	1,1'-Biphenyl	1300	U
91-58-7	2-Chloronaphthalene	1300	U
88-74-4	2-Nitroaniline	3200	U
131-11-3	Dimethylphthalate	1300	U
606-20-2	2,6-Dinitrotoluene	1300	U
208-96-8	Acenaphthylene	1300	U
99-09-2	3-Nitroaniline	3200	U
83-32-9	Acenaphthene	1300	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G6

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-5

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G1-5B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 74 decanted: (Y/N) Y Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	3200	U
100-02-7	4-Nitrophenol	3200	U
132-64-9	Dibenzofuran	1300	U
121-14-2	2,4-Dinitrotoluene	1300	U
84-66-2	Diethylphthalate	1300	U
86-73-7	Fluorene	1300	U
7005-72-3	4-Chlorophenyl-phenylether	1300	U
100-01-6	4-Nitroaniline	3200	U
534-52-1	4,6-Dinitro-2-methylphenol	3200	U
86-30-6	N-nitrosodiphenylamine (1)	1300	U
101-55-3	4-Bromophenyl-phenylether	1300	U
118-74-1	Hexachlorobenzene	1300	U
1912-24-9	Atrazine	1300	U
87-86-5	Pentachlorophenol	3200	U
85-01-8	Phenanthrene	1300	U
120-12-7	Anthracene	1300	U
86-74-8	Carbazole	1300	U
84-74-2	Di-n-butylphthalate	1300	U
206-44-0	Fluoranthene	200	J
129-00-0	Pyrene	220	J
85-68-7	Butylbenzylphthalate	140	J
91-94-1	3,3'-Dichlorobenzidine	1300	U
56-55-3	Benzo(a)anthracene	1300	U
218-01-9	Chrysene	1300	U
117-81-7	bis(2-Ethylhexyl)phthalate	600	J
117-84-0	Di-n-octylphthalate	1300	U
205-99-2	Benzo(b)fluoranthene	1300	U
207-08-9	Benzo(k)fluoranthene	1300	U
50-32-8	Benzo(a)pyrene	1300	U
193-39-5	Indeno(1,2,3-cd)pyrene	1300	U
53-70-3	Dibenzo(a,h)anthracene	1300	U
191-24-2	Benzo(g,h,i)perylene	1300	U

(1) - Cannot be separated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00G6

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-5

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G1-5B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 74 Decanted: (Y/N) Y Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

Number TICs found: 32

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.38	6500	J
2.	UNKNOWN (BC)	4.58	5600	JB
3.	UNKNOWN CARBOXYLIC ACID	4.67	3600	J
4.	UNKNOWN (BC)	4.77	2300	JB
5.	UNKNOWN	5.39	4100	J
6. 103-82-2	BENZENEACETIC ACID	7.78	4100	NJ
7. 120-72-9	INDOLE	8.05	2300	NJ
8. 501-52-0	BENZENEPROPANOIC ACID	8.43	4200	NJ
9.	UNKNOWN	9.43	1600	J
10. 143-07-7	DODECANOIC ACID	9.99	3900	NJ
11. 124-10-7	TETRADECANOIC ACID, METHYL E	10.99	1400	NJ
12. 1002-84-2	PENTADECANOIC ACID	11.64	2700	NJ
13. 1002-84-2	PENTADECANOIC ACID	11.85	2200	NJ
14. 56875-67-3	7-HEXADECENOIC ACID, METHYL	12.07	2000	NJ
15. 2091-29-4	9-HEXADECENOIC ACID	12.44	67000	NJ
16. 57-10-3	HEXADECANOIC ACID	12.56	38000	NJ
17.	UNKNOWN	12.84	1500	J
18.	UNKNOWN	12.88	3300	J
19.	UNKNOWN	12.93	2000	J
20.	UNKNOWN	13.01	2000	J
21.	UNKNOWN	13.23	2200	J
22. 112-80-1	OLEIC ACID	13.45	31000	NJ
23. 57-11-4	OCTADECANOIC ACID	13.54	12000	NJ
24.	UNKNOWN	14.28	8700	J
25.	UNKNOWN	14.36	11000	J
26.	UNKNOWN	14.92	1600	J
27.	UNKNOWN	16.71	1500	J
28. 57-88-5	CHOLESTEROL	19.38	4800	NJ
29.	UNKNOWN	20.90	4500	J
30.	UNKNOWN	21.06	3200	J

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EPA SAMPLE NO.

E00G6

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-5

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G1-5B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 74 Decanted: (Y/N) Y Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

Number TICs found: 32

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	22.63	1500	J
2.	UNKNOWN	22.73	1800	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G6DL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-5

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G1-5DB70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 74 decanted: (Y/N) Y Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	3800	U
108-95-2	Phenol	1600	DJ
111-44-4	bis(2-Chloroethyl)ether	3800	U
95-57-8	2-Chlorophenol	3800	U
95-48-7	2-Methylphenol	3800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3800	U
98-86-2	Acetophenone	3800	U
106-44-5	4-Methylphenol	15000	D
621-64-7	N-Nitroso-di-n-propylamine	3800	U
67-72-1	Hexachloroethane	3800	U
98-95-3	Nitrobenzene	3800	U
78-59-1	Isophorone	3800	U
88-75-5	2-Nitrophenol	3800	U
105-67-9	2,4-Dimethylphenol	3800	U
111-91-1	bis(2-Chloroethoxy)methane	3800	U
120-83-2	2,4-Dichlorophenol	3800	U
91-20-3	Naphthalene	3800	U
106-47-8	4-Chloroaniline	3800	U
87-68-3	Hexachlorobutadiene	3800	U
105-60-2	Caprolactam	3800	U
59-50-7	4-Chloro-3-methylphenol	3800	U
91-57-6	2-Methylnaphthalene	3800	U
77-47-4	Hexachlorocyclopentadiene	3800	U
88-06-2	2,4,6-Trichlorophenol	3800	U
95-95-4	2,4,5-Trichlorophenol	9600	U
92-52-4	1,1'-Biphenyl	3800	U
91-58-7	2-Chloronaphthalene	3800	U
88-74-4	2-Nitroaniline	9600	U
131-11-3	Dimethylphthalate	3800	U
606-20-2	2,6-Dinitrotoluene	3800	U
208-96-8	Acenaphthylene	3800	U
99-09-2	3-Nitroaniline	9600	U
83-32-9	Acenaphthene	3800	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G6DL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-5

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G1-5DB70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 74 decanted: (Y/N) Y Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	9600	U
100-02-7	4-Nitrophenol	9600	U
132-64-9	Dibenzofuran	3800	U
121-14-2	2,4-Dinitrotoluene	3800	U
84-66-2	Diethylphthalate	3800	U
86-73-7	Fluorene	3800	U
7005-72-3	4-Chlorophenyl-phenylether	3800	U
100-01-6	4-Nitroaniline	9600	U
534-52-1	4,6-Dinitro-2-methylphenol	9600	U
86-30-6	N-nitrosodiphenylamine (1)	3800	U
101-55-3	4-Bromophenyl-phenylether	3800	U
118-74-1	Hexachlorobenzene	3800	U
1912-24-9	Atrazine	3800	U
87-86-5	Pentachlorophenol	9600	U
85-01-8	Phenanthrene	3800	U
120-12-7	Anthracene	3800	U
86-74-8	Carbazole	3800	U
84-74-2	Di-n-butylphthalate	3800	U
206-44-0	Fluoranthene	3800	U
129-00-0	Pyrene	3800	U
85-68-7	Butylbenzylphthalate	3800	U
91-94-1	3,3'-Dichlorobenzidine	3800	U
56-55-3	Benzo(a)anthracene	3800	U
218-01-9	Chrysene	3800	U
117-81-7	bis(2-Ethylhexyl)phthalate	880	DJ
117-84-0	Di-n-octylphthalate	3800	U
205-99-2	Benzo(b)fluoranthene	3800	U
207-08-9	Benzo(k)fluoranthene	3800	U
50-32-8	Benzo(a)pyrene	3800	U
193-39-5	Indeno(1,2,3-cd)pyrene	3800	U
53-70-3	Dibenzo(a,h)anthracene	3800	U
191-24-2	Benzo(g,h,i)perylene	3800	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00G6DL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-5

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G1-5DB70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 74 Decanted: (Y/N) Y Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

Number TICs found: 32

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 109-52-4	PENTANOIC ACID	4.34	5900	NJD
2.	UNKNOWN (BC)	4.44	790	JBD
3.	UNKNOWN (BC)	4.56	2100	JBD
4.	UNKNOWN CARBOXYLIC ACID	6.91	1700	JD
5. 103-82-2	BENZENEACETIC ACID	7.64	4500	NJD
6. 120-72-9	INDOLE	7.96	2700	NJD
7. 501-52-0	BENZENEPROPANOIC ACID	8.31	4800	NJD
8. 62108-16-1	1H-INDOLE, 2,3-DIHYDRO-4-MET	9.34	1500	NJD
9. 120-40-1	DODECANAMIDE, N,N-BIS(2-HYDR	9.88	4800	NJD
10.	UNKNOWN CARBOXYLIC ACID	10.90	1100	JD
11.	UNKNOWN	11.05	1700	JD
12. 544-63-8	TETRADECANOIC ACID	11.18	21000	NJD
13.	UNKNOWN	11.52	1700	JD
14.	UNKNOWN	11.98	2300	JD
15. 112-39-0	HEXADECANOIC ACID, METHYL ES	12.10	1100	NJD
16. 2091-29-4	9-HEXADECENOIC ACID	12.28	51000	NJD
17. 57-10-3	HEXADECANOIC ACID	12.38	41000	NJD
18.	UNKNOWN	12.76	1700	JD
19.	CYCLOOCTADIENE	12.79	2800	JD
20.	UNKNOWN	12.84	3200	JD
21.	UNKNOWN	12.92	2200	JD
22. 56554-35-9	9,17-OCTADECADIENAL, (Z)-	13.31	23000	NJD
23. 57-11-4	OCTADECANOIC ACID	13.40	7500	NJD
24.	UNKNOWN	13.92	2200	JD
25.	UNKNOWN	14.16	2700	JD
26.	UNKNOWN	14.24	3200	JD
27.	UNKNOWN	16.56	4200	JD
28.	UNKNOWN	19.12	4500	JD
29.	UNKNOWN	19.26	3700	JD
30.	UNKNOWN	20.73	7700	JD

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00G6DL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-5

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G1-5DB70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 74 Decanted: (Y/N) Y Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

Number TICs found: 32

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	20.80	8300	JD
2.	UNKNOWN	20.88	6200	JD
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G7

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-6

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G1-6B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 26 decanted: (Y/N) Y Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	450	U
108-95-2	Phenol	450	U
111-44-4	bis(2-Chloroethyl)ether	450	U
95-57-8	2-Chlorophenol	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2'-oxybis(1-Chloropropane)	450	U
98-86-2	Acetophenone	450	U
106-44-5	4-Methylphenol	450	U
621-64-7	N-Nitroso-di-n-propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
111-91-1	bis(2-Chloroethoxy)methane	450	U
120-83-2	2,4-Dichlorophenol	450	U
91-20-3	Naphthalene	450	U
106-47-8	4-Chloroaniline	450	U
87-68-3	Hexachlorobutadiene	450	U
105-60-2	Caprolactam	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-57-6	2-Methylnaphthalene	450	U
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	450	U
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	450	U
606-20-2	2,6-Dinitrotoluene	450	U
208-96-8	Acenaphthylene	450	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	450	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G7

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-6

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G1-6B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 26 decanted: (Y/N) Y Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	450	U
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
86-73-7	Fluorene	450	U
7005-72-3	4-Chlorophenyl-phenylether	450	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
1912-24-9	Atrazine	450	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	390	J
120-12-7	Anthracene	150	J
86-74-8	Carbazole	49	J
84-74-2	Di-n-butylphthalate	450	U
206-44-0	Fluoranthene	1400	
129-00-0	Pyrene	1500	
85-68-7	Butylbenzylphthalate	450	U
91-94-1	3,3'-Dichlorobenzidine	450	U
56-55-3	Benzo(a)anthracene	920	
218-01-9	Chrysene	950	
117-81-7	bis(2-Ethylhexyl)phthalate	480	
117-84-0	Di-n-octylphthalate	450	U
205-99-2	Benzo(b)fluoranthene	750	
207-08-9	Benzo(k)fluoranthene	620	
50-32-8	Benzo(a)pyrene	690	
193-39-5	Indeno(1,2,3-cd)pyrene	300	J
53-70-3	Dibenzo(a,h)anthracene	160	J
191-24-2	Benzo(g,h,i)perylene	180	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00G7

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-6

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G1-6B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 26 Decanted: (Y/N) Y Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

Number TICs found: 20

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	4.51	310	JB
2.	UNKNOWN (BC)	4.63	530	JB
3. 57-10-3	HEXADECANOIC ACID	12.39	270	NJ
4.	UNKNOWN PAH	13.01	290	J
5. 2381-21-7	PYRENE, 1-METHYL-	13.94	300	NJ
6. 205-43-6	BENZO[B]NAPHTHO[1,2-D]THIOPH	14.79	440	NJ
7.	UNKNOWN	14.84	550	J
8.	UNKNOWN	15.28	710	J
9.	UNKNOWN	15.41	770	J
10. 1705-84-6	TRIPHENYLENE, 2-METHYL-	15.70	800	NJ
11.	UNKNOWN PAH	15.75	730	J
12. 205-82-3	BENZO[J]FLUORANTHENE	16.95	960	NJ
13. 205-99-2	BENZ[E]ACEPHENANTHRYLENE	17.29	790	NJ
14.	UNKNOWN	18.81	700	J
15.	UNKNOWN	19.65	630	J
16.	UNKNOWN	20.43	1200	J
17.	UNKNOWN	20.53	1900	J
18.	UNKNOWN	20.70	910	J
19.	UNKNOWN	21.02	910	J
20.	UNKNOWN	21.16	720	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G8

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-7

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G1-7B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 12 decanted: (Y/N) N Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	380	U
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
98-86-2	Acetophenone	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
105-60-2	Caprolactam	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	940	U
92-52-4	1,1'-Biphenyl	380	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	940	U
131-11-3	Dimethylphthalate	380	U
606-20-2	2,6-Dinitrotoluene	380	U
208-96-8	Acenaphthylene	380	U
99-09-2	3-Nitroaniline	940	U
83-32-9	Acenaphthene	380	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G8

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-7

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G1-7B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 12 decanted: (Y/N) N Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	940	U
100-02-7	4-Nitrophenol	940	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
86-73-7	Fluorene	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
100-01-6	4-Nitroaniline	940	U
534-52-1	4,6-Dinitro-2-methylphenol	940	U
86-30-6	N-nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
1912-24-9	Atrazine	380	U
87-86-5	Pentachlorophenol	47	J
85-01-8	Phenanthrene	160	J
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	210	J
129-00-0	Pyrene	300	J
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	140	J
218-01-9	Chrysene	140	J
117-81-7	bis(2-Ethylhexyl)phthalate	92	J
117-84-0	Di-n-octylphthalate	230	J
205-99-2	Benzo(b)fluoranthene	230	XJ
207-08-9	Benzo(k)fluoranthene	190	XJ
50-32-8	Benzo(a)pyrene	110	J
193-39-5	Indeno(1,2,3-cd)pyrene	91	J
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00G8

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-7

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G1-7B70

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 12 Decanted: (Y/N) N Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

Number TICs found: 23

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	4.52	300	J
2.	UNKNOWN (BC)	4.63	570	J
3. 57-10-3	HEXADECANOIC ACID	12.39	130	NJ
4.	UNKNOWN	14.60	160	J
5.	UNKNOWN PHTHALATE	16.07	290	J
6.	UNKNOWN PHTHALATE	16.53	540	J
7. 2765-11-9	PENTADECANAL-	16.73	820	NJ
8.	UNKNOWN PHTHALATE	16.88	400	J
9.	UNKNOWN	16.95	240	J
10. 35599-77-0	TRIDECANE, 1-IODO-	17.10	410	NJ
11.	UNKNOWN ALCOHOL	17.15	510	J
12.	UNKNOWN	20.19	240	J
13.	UNKNOWN	20.31	380	J
14.	UNKNOWN	20.40	260	J
15.	UNKNOWN	20.58	350	J
16.	UNKNOWN	20.97	690	J
17.	UNKNOWN	21.09	260	J
18.	UNKNOWN	21.31	230	J
19.	UNKNOWN	21.39	200	J
20.	UNKNOWN	21.46	190	J
21.	UNKNOWN	21.58	150	J
22. 58-22-0	TESTOSTERONE	22.10	260	NJ
23.	UNKNOWN	22.51	130	J
24.				
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FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKGI

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: WG10239-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG10239-1A70

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
98-86-2	Acetophenone	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
92-52-4	1,1'-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKGI

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: WG10239-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG10239-1A70

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKGI

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: WG10239-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: WG10239-1A70

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/15/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/16/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Extraction: (Type) SONC

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	4.53	430	J
2.	UNKNOWN (BC)	4.65	600	J
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FORM I SV-TIC OLM04.2

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

GC Column(1): CLPEST ID: 0.53(mm) GC Column(2): CLPEST2 ID:0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	E00G1MS	86	71	62	66			0
02	E00G1MSD	79	86	69	71			0
03	E00G1	93	79	71	71			0
04	E00G2	113	100	81	88			0
05	E00G4	126	81	78	81			0
06	E00G5	96	78	61	87			0
07	E00G6	108	84	59	63			0
08	E00G7	83	78	37	67			0
09	PBLKGJ	69	58	75	75			0
10	E00G8DL	67	73	80	73			0
11	E00G8	65	56	58	64			0
12								
13								
14								
15								
16								
17								
18								
19								
20								
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22								
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24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix Spike - EPA Sample No.: E00G1

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	18	0.0	8.4	47	46-127
Heptachlor	18	0.0	12	67	35-130
Aldrin	18	0.0	13	72	34-132
Dieldrin	35	0.0	22	63	31-134
Endrin	35	0.0	25	71	42-139
4,4'-DDT	35	0.0	20	57	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	18	8.8	49	4	50	46-127
Heptachlor	18	11	61	9	31	35-130
Aldrin	18	13	72	0	43	34-132
Dieldrin	35	23	66	5	38	31-134
Endrin	35	26	74	4	45	42-139
4,4'-DDT	35	20	57	0	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS:

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKGJ

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Lab Sample ID: WG10240-1 Lab File ID: _____

Matrix (soil/water) SOIL Extraction:(Type) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 05/15/01

Date Analyzed (1): 05/23/01 Date Analyzed (2): 05/23/01

Time Analyzed (1): 2010 Time Analyzed (2): 2010

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC85

GC Column (1): CLPEST ID: 0.53(mm) GC Column (2): CLPEST2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	E00G1MS	WG10240-2	05/20/01	05/20/01
02	E00G1MSD	WG10240-3	05/20/01	05/20/01
03	E00G1	E00G1-1	05/20/01	05/20/01
04	E00G2	E00G1-2	05/20/01	05/20/01
05	E00G4	E00G1-3	05/20/01	05/20/01
06	E00G5	E00G1-4	05/20/01	05/20/01
07	E00G6	E00G1-5	05/20/01	05/20/01
08	E00G7	E00G1-6	05/20/01	05/20/01
09	E00G8DL	E00G1-7	05/23/01	05/23/01
10	E00G8	E00G1-7	05/23/01	05/23/01
11				
12				
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26				

COMMENTS: _____

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G1

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 6 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/20/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	71	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G1MS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: WG10240-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 6 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/20/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	8.4	P
76-44-8	Heptachlor	12	
309-00-2	Aldrin	13	
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	22	
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	25	
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	20	P
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	2.1	J
7421-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	71	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G1MSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: WG10240-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 6 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/20/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	8.8	P
76-44-8	Heptachlor	11	P
309-00-2	Aldrin	13	
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	23	
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	26	
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	20	P
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	2.2	JP
7421-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	71	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G2

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/20/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.6	
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	83	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G4

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 50 Decanted: (Y/N) Y Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/20/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.4	U
319-85-7	beta-BHC	4.3	P
319-86-8	delta-BHC	3.4	U
58-89-9	gamma-BHC (Lindane)	3.4	U
76-44-8	Heptachlor	3.4	U
309-00-2	Aldrin	3.4	U
1024-57-3	Heptachlor epoxide	3.4	U
959-98-8	Endosulfan I	3.4	U
60-57-1	Dieldrin	6.6	U
72-55-9	4,4'-DDE	2.1	JP
72-20-8	Endrin	6.6	U
33213-65-9	Endosulfan II	6.6	U
72-54-8	4,4'-DDD	6.6	U
1031-07-8	Endosulfan sulfate	6.6	U
50-29-3	4,4'-DDT	6.6	U
72-43-5	Methoxychlor	34	U
53494-70-5	Endrin ketone	6.6	U
7421-93-4	Endrin aldehyde	1.4	JP
5103-71-9	alpha-Chlordane	3.4	U
5103-74-2	gamma-Chlordane	3.4	U
8001-35-2	Toxaphene	340	U
12674-11-2	Aroclor-1016	66	U
11104-28-2	Aroclor-1221	130	U
11141-16-5	Aroclor-1232	66	U
53469-21-9	Aroclor-1242	66	U
12672-29-6	Aroclor-1248	66	U
11097-69-1	Aroclor-1254	66	U
11096-82-5	Aroclor-1260	66	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G5

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-4

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 42 Decanted: (Y/N) Y Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/20/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.9	U
319-85-7	beta-BHC	2.9	J
319-86-8	delta-BHC	2.9	U
58-89-9	gamma-BHC (Lindane)	2.9	U
76-44-8	Heptachlor	2.9	U
309-00-2	Aldrin	2.9	U
1024-57-3	Heptachlor epoxide	2.9	U
959-98-8	Endosulfan I	2.9	U
60-57-1	Dieldrin	5.7	U
72-55-9	4,4'-DDE	1.6	JP
72-20-8	Endrin	5.7	U
33213-65-9	Endosulfan II	5.7	U
72-54-8	4,4'-DDD	5.7	U
1031-07-8	Endosulfan sulfate	5.7	U
50-29-3	4,4'-DDT	2.9	JP
72-43-5	Methoxychlor	29	U
53494-70-5	Endrin ketone	5.7	U
7421-93-4	Endrin aldehyde	5.7	U
5103-71-9	alpha-Chlordane	2.9	U
5103-74-2	gamma-Chlordane	5.4	
8001-35-2	Toxaphene	290	U
12674-11-2	Aroclor-1016	57	U
11104-28-2	Aroclor-1221	120	U
11141-16-5	Aroclor-1232	57	U
53469-21-9	Aroclor-1242	57	U
12672-29-6	Aroclor-1248	57	U
11097-69-1	Aroclor-1254	57	U
11096-82-5	Aroclor-1260	57	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G6

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-5

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 74 Decanted: (Y/N) Y Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/20/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	6.5	U
319-85-7	beta-BHC	6.5	U
319-86-8	delta-BHC	6.5	U
58-89-9	gamma-BHC (Lindane)	6.5	U
76-44-8	Heptachlor	6.5	U
309-00-2	Aldrin	6.5	U
1024-57-3	Heptachlor epoxide	6.5	U
959-98-8	Endosulfan I	6.5	U
60-57-1	Dieldrin	13	U
72-55-9	4,4'-DDE	13	U
72-20-8	Endrin	13	U
33213-65-9	Endosulfan II	13	U
72-54-8	4,4'-DDD	13	U
1031-07-8	Endosulfan sulfate	13	U
50-29-3	4,4'-DDT	13	U
72-43-5	Methoxychlor	65	U
53494-70-5	Endrin ketone	13	U
7421-93-4	Endrin aldehyde	13	U
5103-71-9	alpha-Chlordane	4.3	JP
5103-74-2	gamma-Chlordane	9.7	
8001-35-2	Toxaphene	650	U
12674-11-2	Aroclor-1016	130	U
11104-28-2	Aroclor-1221	260	U
11141-16-5	Aroclor-1232	130	U
53469-21-9	Aroclor-1242	130	U
12672-29-6	Aroclor-1248	130	U
11097-69-1	Aroclor-1254	130	U
11096-82-5	Aroclor-1260	130	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G7

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-6

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 26 Decanted: (Y/N) Y Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/20/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	1.8	J
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.4	U
72-55-9	4,4'-DDE	4.4	U
72-20-8	Endrin	4.4	U
33213-65-9	Endosulfan II	4.4	U
72-54-8	4,4'-DDD	4.4	U
1031-07-8	Endosulfan sulfate	4.4	U
50-29-3	4,4'-DDT	4.4	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.4	U
7421-93-4	Endrin aldehyde	4.4	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	44	U
11104-28-2	Aroclor-1221	90	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	44	U
11096-82-5	Aroclor-1260	44	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G8

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-7

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/23/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	0.93	JP
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.1	JP
72-20-8	Endrin	3.4	JP
33213-65-9	Endosulfan II	1.2	JP
72-54-8	4,4'-DDD	2.8	JP
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	130	E
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	1.3	JP
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	J
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	76	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G8DL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: E00G1-7

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/23/01

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	9.6	U
319-85-7	beta-BHC	9.6	U
319-86-8	delta-BHC	9.6	U
58-89-9	gamma-BHC (Lindane)	9.6	U
76-44-8	Heptachlor	9.6	U
309-00-2	Aldrin	9.6	U
1024-57-3	Heptachlor epoxide	9.6	U
959-98-8	Endosulfan I	9.6	U
60-57-1	Dieldrin	19	U
72-55-9	4,4'-DDE	52	D
72-20-8	Endrin	19	U
33213-65-9	Endosulfan II	19	U
72-54-8	4,4'-DDD	19	U
1031-07-8	Endosulfan sulfate	19	U
50-29-3	4,4'-DDT	170	D
72-43-5	Methoxychlor	96	U
53494-70-5	Endrin ketone	19	U
7421-93-4	Endrin aldehyde	19	U
5103-71-9	alpha-Chlordane	9.6	U
5103-74-2	gamma-Chlordane	9.6	U
8001-35-2	Toxaphene	960	U
12674-11-2	Aroclor-1016	190	U
11104-28-2	Aroclor-1221	380	U
11141-16-5	Aroclor-1232	190	U
53469-21-9	Aroclor-1242	190	U
12672-29-6	Aroclor-1248	190	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	190	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKGJ

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00G1

Matrix: (soil/water) SOIL Lab Sample ID: WG10240-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 05/15/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/23/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E00G1 CERCLIS No: IL0000675264

Case No: 29241 Site Name/Location: American Cyanamide

Contractor or EPA Lab: ComputChem Data User: IEPA

No. of Samples: 7 Date Sampled or Date Received: 5-29-01

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 7 No. of samples received: 7

Received by: Eva M. Dixon / ESAT Date: 5-29-01

Received by LSSS: Eva M. Dixon / ESAT Date: 5-29-01

Review started: ____ Reviewer Signature: ____

Total time spent on review: ____ Date review completed: ____

Copied by: Eva M. Dixon / ESAT Date: 5-31-01

Mailed to user by: Eva M. Dixon / ESAT Date: 5-31-01

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____

MAY 3 1 2001

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE: _____

SUBJECT: Electronic (Level 2) Review of Data

Received for Review on 5-29-01

RECEIVED
JUN 0 6 2001
IEPA-BOL-FSRS

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

The following data has been electronically reviewed by CADRE. No review of the raw data, laboratory narrative, laboratory forms or chain-of-custody forms was performed.

SITE NAME: AMERICAN CYANAMIDE (IL)

CASE NUMBER: 29241 SDG NUMBER: E00C7

Number and Type of Samples: 20 Soils

Sample Numbers: E00C7 - E00C9, E00D1 - E00D7, E00E6 - E00E9, E00F0 - E00F5

Laboratory: COMPUCHEM Hrs. for Review: _____

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

Case Number : 29241 **SDG Number:** E00C7
Site Name: AMERICAN CYANAMIDE (IL) **Laboratory:** COMPUCHEM

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Twenty (20) soil samples, numbered *E00C7* through *E00C9, E00D1* through *E00D7, E00E6* through *E00E9* and *E00F0* through *E00F5*, were collected *May 7 - 8, 2001*. The lab received the samples on *May 10, 2001* in good condition. All samples were analyzed for the semivolatile lists of organic analytes. All were analyzed according to CLP SOW *OLM04.2* 5/99.

Case Number : 29241 SDG Number: E00C7
Site Name: AMERICAN CYANAMIDE (IL) Laboratory: COMPUCHEM

1. HOLDING TIME

No problems found for this qualification.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems found for this qualification.

3. CALIBRATION

CALIBRATION CRITERIA

Semivolatile

	Primary	Expanded
Minimum RRF	0.05	0.05
Maximum %RSD (initial calibration)	30	30
Maximum %D (continuing calibration)	25	25
Calibration time period	12	

DC-97: The following semivolatile samples are associated with a continuing calibration whose corresponding initial calibration has relative response factors (RRFs) outside primary criteria. Hits are flagged "J" and non-detects are qualified "R".

Atrazine
E00C7, E00C8, E00C9, E00D1, E00D2, E00D3
E00D4, E00D5, E00D6, E00D7, E00E6, E00E7
E00E7MS, E00E7MSD, E00E8, E00E9, E00F0, E00F1
E00F2, E00F3, E00F4, E00F5, SBLKFJ

DC-99: The following semivolatile samples are associated with a continuing calibration relative response factor (RRF50) outside primary criteria.
Hits are flagged "J" and non-detects are qualified "R".

2,4-Dinitrophenol
E00C7, E00C8, E00C9, E00D1, E00D2, E00D3
E00D4, E00D5, E00D6, E00D7, E00E6, E00E7
E00E7MS, E00E7MSD, E00E8, E00E9, E00F0, SBLKFJ

Case Number : 29241 SDG Number: E00C7
Site Name: AMERICAN CYANAMIDE (IL) Laboratory: COMPUCHEM

Atrazine
E00C7, E00C8, E00C9, E00D1, E00D2, E00D3
E00D4, E00D5, E00D6, E00D7, E00E6, E00E7
E00E7MS, E00E7MSD, E00E8, E00E9, E00F0, E00F1
E00F2, E00F3, E00F4, E00F5, SBLKFJ

DC-100: The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria.
Hits are qualified "J" and non-detects are qualified "UJ".

2-Methylnaphthalene
E00F1, E00F2, E00F3, E00F4, E00F5

Hexachlorocyclopentadiene
E00C7, E00C8, E00C9, E00D1, E00D2, E00D3
E00D4, E00D5, E00D6, E00D7, E00E6, E00E7
E00E7MS, E00E7MSD, E00E8, E00E9, E00F0, E00F1
E00F2, E00F3, E00F4, E00F5, SBLKFJ

2,4-Dinitrophenol
E00F1, E00F2, E00F3, E00F4, E00F5

4-Nitroaniline
E00C7, E00C8, E00C9, E00D1, E00D2, E00D3
E00D4, E00D5, E00D6, E00D7, E00E6, E00E7
E00E7MS, E00E7MSD, E00E8, E00E9, E00F0, E00F1
E00F2, E00F3, E00F4, E00F5, SBLKFJ

4,6-Dinitro-2-methylphenol
E00C7, E00C8, E00C9, E00D1, E00D2, E00D3
E00D4, E00D5, E00D6, E00D7, E00E6, E00E7
E00E7MS, E00E7MSD, E00E8, E00E9, E00F0, E00F1
E00F2, E00F3, E00F4, E00F5, SBLKFJ

Pentachlorophenol
E00C7, E00C8, E00C9, E00D1, E00D2, E00D3
E00D4, E00D5, E00D6, E00D7, E00E6, E00E7
E00E7MS, E00E7MSD, E00E8, E00E9, E00F0, SBLKFJ

Indeno(1,2,3-cd)pyrene
E00C7, E00C8, E00C9, E00D1, E00D2, E00D3
E00D4, E00D5, E00D6, E00D7, E00E6, E00E7
E00E7MS, E00E7MSD, E00E8, E00E9, E00F0, SBLKFJ

Case Number : 29241 SDG Number: E00C7
Site Name: AMERICAN CYANAMIDE (IL) Laboratory: COMPUCHEM

Dibenz(a,h)anthracene
E00C7, E00C8, E00C9, E00D1, E00D2, E00D3
E00D4, E00D5, E00D6, E00D7, E00E6, E00E7
E00E7MS, E00E7MSD, E00E8, E00E9, E00F0, SBLKFJ

Benzo(g,h,i)perylene
E00C7, E00C8, E00C9, E00D1, E00D2, E00D3
E00D4, E00D5, E00D6, E00D7, E00E6, E00E7
E00E7MS, E00E7MSD, E00E8, E00E9, E00F0, SBLKFJ

DC-190: The following pesticide samples are not qualified for initial calibration due to missing calibration information.
Manual review of the data is required.

E00C7, E00C8, E00C9, E00D1, E00D2, E00D3
E00D4, E00D5, E00D6, E00D7, E00E6, E00E7
E00E7MS, E00E7MSD, E00E8, E00E9, E00F0, E00F1
E00F2, E00F3, E00F4, E00F5, PBLKFK

DC-197: The following pesticide samples are not qualified for continuing calibration because of missing continuing calibration information.
Manual review of the data is required.

E00C7, E00C8, E00C9, E00D1, E00D2, E00D3
E00D4, E00D5, E00D6, E00D7, E00E6, E00E7
E00E7MS, E00E7MSD, E00E8, E00E9, E00F0, E00F1
E00F2, E00F3, E00F4, E00F5, PBLKFK

4. BLANKS

LABORATORY BLANKS CRITERIA

Semivolatile

Method Blank Contamination Threshold Multipliers

	First	Expanded
Common contaminant compounds	10.00	10.00

Case Number : 29241 **SDG Number:** E00C7
Site Name: AMERICAN CYANAMIDE (IL) **Laboratory:** COMPUCHEM

Other compounds	5.00	5.00

DC-72: The blank associated with the following sample was qualified "R" during a previous qualification. Hits and non-detects are not flagged.

E00C7
2,4-Dinitrophenol, Atrazine

E00C8
2,4-Dinitrophenol, Atrazine

E00C9
2,4-Dinitrophenol, Atrazine

E00D1
2,4-Dinitrophenol, Atrazine

E00D2
2,4-Dinitrophenol, Atrazine

E00D3
2,4-Dinitrophenol, Atrazine

E00D4
2,4-Dinitrophenol, Atrazine

E00D5
2,4-Dinitrophenol, Atrazine

E00D6
2,4-Dinitrophenol, Atrazine

E00D7
2,4-Dinitrophenol, Atrazine

E00E6
2,4-Dinitrophenol, Atrazine

E00E7
2,4-Dinitrophenol, Atrazine

E00E7MS
2,4-Dinitrophenol, Atrazine

Case Number : 29241 SDG Number: E00C7
Site Name: AMERICAN CYANAMIDE (IL) Laboratory: COMPUCHEM

E00E7MSD
2,4-Dinitrophenol, Atrazine

E00E8
2,4-Dinitrophenol, Atrazine

E00E9
2,4-Dinitrophenol, Atrazine

E00F0
2,4-Dinitrophenol, Atrazine

E00F1
2,4-Dinitrophenol, Atrazine

E00F2
2,4-Dinitrophenol, Atrazine

E00F3
2,4-Dinitrophenol, Atrazine

E00F4
2,4-Dinitrophenol, Atrazine

E00F5
2,4-Dinitrophenol, Atrazine

DC-202: The following semivolatile samples have analyte concentrations reported above the CRQL and less than or equal to ten times (10X) the associated method blank concentration.
Hits are qualified "U" and non-detects are not flagged.

E00F3
bis(2-Ethylhexyl)phthalate

DC-206: The following semivolatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL.
Hits are qualified "U" and non-detects are not flagged.

bis(2-Ethylhexyl)phthalate
E00C8, E00D1, E00D2, E00D3, E00D4, E00D5
E00D6, E00D7, E00E6, E00E7MSD, E00E8, E00E9

Case Number : 29241 SDG Number: E00C7
ite Name: AMERICAN CYANAMIDE (IL) Laboratory: COMPUCHEM

E00F0, E00F2, E00F4, E00F5

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

SMC/SURROGATE CRITERIA

Pesticide

Percent Recovery Limits

	--- Water ---		---- Soil ---	
	Lower	Upper	Lower	Upper
Tetrachloro-m-xylene	30.0	150.0	30.0	150.0
Decachlorobiphenyl	30.0	150.0	30.0	150.0

DC-174: The following pesticide samples have surrogate percent recoveries which exceed the upper limit of the criteria window. Hits are qualified "J" and non-detects are not flagged.

E00F3

DC-177: The following pesticide samples have surrogate percent recoveries outside the lower limit of the criteria window, but greater than 10%. Hits are qualified "J" and non-detects are qualified "UJ".

E00F5

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

MATRIX SPIKE CRITERIA

Pesticide

Percent Recovery Limits & RPD

------- Water ------- ------- Soil -------

Case Number : 29241 SDG Number: E00C7
Site Name: AMERICAN CYANAMIDE (IL) Laboratory: COMPUCHEM

	Lower	Upper	RPD	Lower	Upper	RPD
gamma-BHC (Lindane)	56.0	123.0	15.0	46.0	127.0	50.0
Heptachlor	40.0	131.0	20.0	35.0	130.0	31.0
Aldrin	40.0	120.0	22.0	34.0	132.0	43.0
Dieldrin	52.0	126.0	18.0	31.0	134.0	38.0
Endrin	56.0	121.0	21.0	42.0	139.0	45.0
4,4'-DDT	38.0	127.0	27.0	23.0	134.0	50.0

DC-169: The relative percent difference (RPD) between the following pesticide matrix spike and matrix spike duplicate recoveries is outside criteria. Results for the outlier compounds in the unspiked sample E00E7 are estimated, "J" and non-detects are estimated, "UJ".

E00E7MS
gamma-BHC (Lindane), Heptachlor

E00E7MSD
gamma-BHC (Lindane), Heptachlor

DC-170: The following pesticide matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Results for the outlier compounds in the unspiked sample E00E7 are estimated, "J" and non-detects are estimated, "UJ".

E00E7MSD
gamma-BHC (Lindane), Heptachlor

7. FIELD BLANK AND FIELD DUPLICATE

No samples were identified as field blanks. Sample *E00D3* is a field duplicate of Sample *E00D2*. Sample *E00F5* is a field duplicate of Sample *E00F2*. Sample *E00F4* is a field duplicate of Sample *E00F3*. Results are not qualified based upon the results of the field blank or field duplicates.

8. INTERNAL STANDARDS

No problems found for this qualification.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

Case Number : 29241 SDG Number: E00C7
Site Name: AMERICAN CYANAMIDE (IL) Laboratory: COMPUCHEM

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

CONTRACT REQUIRED SAMPLE QUANTITY

	Water	Low Soil	Med Soil
BNA	1000.0 (ML)	30.0 (G)	1.0 (G)
PES	1000.0 (ML)	30.0 (G)	

DC-110: The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E00D2
Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene
Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene
Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00E9
Phenanthrene, Anthracene, Di-n-butylphthalate, Fluoranthene
Pyrene, Benzo(a)anthracene, Chrysene
Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene
Dibenz(a,h)anthracene

E00F0
Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene
Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene
Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene

E00F3
Phenanthrene, Pyrene, Chrysene

E00F4
Naphthalene, 2-Methylnaphthalene, 1,1'-Biphenyl , Acenaphthene
Phenanthrene, Anthracene, Carbazole, Fluoranthene
Pyrene, Chrysene

SBLKFJ
bis(2-Ethylhexyl)phthalate

DC-158: The following pesticide samples have analyte concentrations below

Case Number : 29241 SDG Number: E00C7
Site Name: AMERICAN CYANAMIDE (IL) Laboratory: COMPUCHEM

the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E00C7
beta-BHC

E00D1
beta-BHC

E00D2
beta-BHC

E00D6
beta-BHC

E00D7
Dieldrin

E00E6
alpha-BHC, Aroclor-1254

E00E7
Heptachlor epoxide

E00E7MS
beta-BHC, Endrin ketone

E00E7MSD
beta-BHC, Heptachlor epoxide

E00E9
Endosulfan I, 4,4'-DDE, Endrin, Endrin ketone
Endrin aldehyde, alpha-Chlordane, gamma-Chlordane

E00F0
Endosulfan I

E00F1
Endrin aldehyde

E00F2
Aroclor-1254

Case Number : 29241 SDG Number: E00C7
Site Name: AMERICAN CYANAMIDE (IL) Laboratory: COMPUCHEM

E00F3
Endrin aldehyde

E00F4
Endrin ketone, Endrin aldehyde

DC-422: The following pesticide samples have analytes for which the percent difference between column results exceeds primary criteria.
Professional judgement should be used to qualify the data.

E00D1
beta-BHC

E00D2
beta-BHC

E00E6
Aroclor-1254

E00E7
Heptachlor epoxide

E00E7MSD
beta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin
Heptachlor epoxide

E00E9
4,4'-DDE, Endrin, 4,4'-DDT, Endrin ketone
Endrin aldehyde, gamma-Chlordane

E00F0
Endosulfan I, 4,4'-DDE, Endrin aldehyde

E00F1
Endrin ketone, Aroclor-1254

E00F2
Aroclor-1254

E00F3
Endrin aldehyde

Case Number : 29241 SDG Number: E00C7
'ite Name: AMERICAN CYANAMIDE (IL) Laboratory: COMPUCHEM

E00F4
Endrin ketone, Endrin aldehyde

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00C7
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Number of Soil Samples : 20
Number of Water Samples : 0

Sample Number :	E00C7		E00C8		E00C9		E00D1		E00D2	
Sampling Location :	X111		X112		X116		X117		X118	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001	
Time Sampled :	17:15		15:15		17:00		16:45		16.30	
%Moisture :	27		50		39		15		22	
pH :	3.2		3.9		3.7		7.1		7.3	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	450	U	660	U	540	U	390	U	420	U
Phenol	450	U	660	U	540	U	390	U	420	U
bis-(2-Chloroethyl) ether	450	U	660	U	540	U	390	U	420	U
2-Chlorophenol	450	U	660	U	540	U	390	U	420	U
2-Methylphenol	450	U	660	U	540	U	390	U	420	U
2,2'-oxybis(1-Chloropropane)	450	U	660	U	540	U	390	U	420	U
Acetophenone	450	U	660	U	540	U	390	U	420	U
4-Methylphenol	450	U	660	U	540	U	390	U	420	U
N-Nitroso-di-n-propylamine	450	U	660	U	540	U	390	U	420	U
Hexachloroethane	450	U	660	U	540	U	390	U	420	U
Nitrobenzene	450	U	660	U	540	U	390	U	420	U
Isophorone	450	U	660	U	540	U	390	U	420	U
2-Nitrophenol	450	U	660	U	540	U	390	U	420	U
2,4-Dimethylphenol	450	U	660	U	540	U	390	U	420	U
bis(2-Chloroethoxy)methane	450	U	660	U	540	U	390	U	420	U
2,4-Dichlorophenol	450	U	660	U	540	U	390	U	420	U
Naphthalene	450	U	660	U	540	U	390	U	420	U
4-Chloroaniline	450	U	660	U	540	U	390	U	420	U
Hexachlorobutadiene	450	U	660	U	540	U	390	U	420	U
Caprolactam	450	U	660	U	540	U	390	U	420	U
4-Chloro-3-methylphenol	450	U	660	U	540	U	390	U	420	U
2-Methylnaphthalene	450	U	660	U	540	U	390	U	420	U
Hexachlorocyclopentadiene	450	UJ	660	UJ	540	UJ	390	UJ	420	UJ
2,4,6-Trichlorophenol	450	U	660	U	540	U	390	U	420	U
2,4,5-Trichlorophenol	1100	U	1700	U	1400	U	980	U	1100	U
1,1'-Biphenyl	450	U	660	U	540	U	390	U	420	U
2-Chloronaphthalene	450	U	660	U	540	U	390	U	420	U
2-Nitroaniline	1100	U	1700	U	1400	U	980	U	1100	U
Dimethylphthalate	450	U	660	U	540	U	390	U	420	U
2,6-Dinitrotoluene	450	U	660	U	540	U	390	U	420	U
Acenaphthylene	450	U	660	U	540	U	390	U	420	U
3-Nitroaniline	1100	U	1700	U	1400	U	980	U	1100	U
Acenaphthene	450	U	660	U	540	U	390	U	420	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00C7
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00C7		E00C8		E00C9		E00D1		E00D2	
Sampling Location :	X111		X112		X116		X117		X118	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001	
Time Sampled :	17:15		15:15		17:00		16:45		16:30	
%Moisture :	27		50		39		15		22	
pH :	3.2		3.9		3.7		7.1		7.3	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1100	R	1700	R	1400	R	980	R	1100	R
4-Nitrophenol	1100	U	1700	U	1400	U	980	U	1100	U
Dibenzofuran	450	U	660	U	540	U	390	U	420	U
2,4-Dinitrotoluene	450	U	660	U	540	U	390	U	420	U
Diethylphthalate	450	U	660	U	540	U	390	U	420	U
Fluorene	450	U	660	U	540	U	390	U	420	U
4-Chlorophenyl-phenyl ether	450	U	660	U	540	U	390	U	420	U
4-Nitroaniline	1100	UJ	1700	UJ	1400	UJ	980	UJ	1100	UJ
4,6-Dinitro-2-methylphenol	1100	UJ	1700	UJ	1400	UJ	980	UJ	1100	UJ
N-Nitrosodiphenylamine	450	U	660	U	540	U	390	U	420	U
4-Bromophenyl-phenylether	450	U	660	U	540	U	390	U	420	U
Hexachlorobenzene	450	U	660	U	540	U	390	U	420	U
Atrazine	450	R	660	R	540	R	390	R	420	R
Pentachlorophenol	1100	UJ	1700	UJ	1400	UJ	980	UJ	1100	UJ
Phenanthrene	450	U	660	U	540	U	390	U	150	J
Anthracene	450	U	660	U	540	U	390	U	420	U
Carbazole	450	U	660	U	540	U	390	U	420	U
Di-n-butylphthalate	450	U	660	U	540	U	390	U	420	U
Fluoranthene	450	U	660	U	540	U	390	U	240	J
Pyrene	450	U	660	U	540	U	390	U	190	J
Butylbenzylphthalate	450	U	660	U	540	U	390	U	420	U
3,3'-Dichlorobenzidine	450	U	660	U	540	U	390	U	420	U
Benzo(a)anthracene	450	U	660	U	540	U	390	U	90	J
Chrysene	450	U	660	U	540	U	390	U	100	J
bis(2-Ethylhexyl)phthalate	450	U	660	U	2300		390	U	420	U
Di-n-octylphthalate	450	U	660	U	540	U	390	U	420	U
Benzo(b)fluoranthene	450	U	660	U	540	U	390	U	100	J
Benzo(k)fluoranthene	450	U	660	U	540	U	390	U	120	J
Benzo(a)pyrene	450	U	660	U	540	U	390	U	120	J
Indeno(1,2,3-cd)pyrene	450	UJ	660	UJ	540	UJ	390	UJ	110	J
Dibenzo(a,h)anthracene	450	UJ	660	UJ	540	UJ	390	UJ	48	J
Benzo(g,h,i)perylene	450	UJ	660	UJ	540	UJ	390	UJ	50	J

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00C7
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00D3		E00D4		E00D5		E00D6		E00D7	
Sampling Location :	X119		X120		X121		X122		X123	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001	
Time Sampled :	16:30		16:20		15:50		15:35		16:10	
%Moisture :	50		42		46		43		24	
pH :	3.5		4.4		3.6		4.1		4.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	660	U	570	U	610	U	580	U	430	U
Phenol	660	U	570	U	610	U	580	U	430	U
bis-(2-Chloroethyl) ether	660	U	570	U	610	U	580	U	430	U
2-Chlorophenol	660	U	570	U	610	U	580	U	430	U
2-Methylphenol	660	U	570	U	610	U	580	U	430	U
2,2'-oxybis(1-Chloropropane)	660	U	570	U	610	U	580	U	430	U
Acetophenone	660	U	570	U	610	U	580	U	430	U
4-Methylphenol	660	U	570	U	610	U	580	U	430	U
N-Nitroso-di-n-propylamine	660	U	570	U	610	U	580	U	430	U
Hexachloroethane	660	U	570	U	610	U	580	U	430	U
Nitrobenzene	660	U	570	U	610	U	580	U	430	U
Isophorone	660	U	570	U	610	U	580	U	430	U
2-Nitrophenol	660	U	570	U	610	U	580	U	430	U
2,4-Dimethylphenol	660	U	570	U	610	U	580	U	430	U
bis(2-Chloroethoxy)methane	660	U	570	U	610	U	580	U	430	U
2,4-Dichlorophenol	660	U	570	U	610	U	580	U	430	U
Naphthalene	660	U	570	U	610	U	580	U	430	U
4-Chloroaniline	660	U	570	U	610	U	580	U	430	U
Hexachlorobutadiene	660	U	570	U	610	U	580	U	430	U
Caprolactam	660	U	570	U	610	U	580	U	430	U
4-Chloro-3-methylphenol	660	U	570	U	610	U	580	U	430	U
2-Methylnaphthalene	660	U	570	U	610	U	580	U	430	U
Hexachlorocyclopentadiene	660	UJ	570	UJ	610	UJ	580	UJ	430	UJ
2,4,6-Trichlorophenol	660	U	570	U	610	U	580	U	430	U
2,4,5-Trichlorophenol	1700	U	1400	U	1500	U	1500	U	1100	U
1,1'-Biphenyl	660	U	570	U	610	U	580	U	430	U
2-Chloronaphthalene	660	U	570	U	610	U	580	U	430	U
2-Nitroaniline	1700	U	1400	U	1500	U	1500	U	1100	U
Dimethylphthalate	660	U	570	U	610	U	580	U	430	U
2,6-Dinitrotoluene	660	U	570	U	610	U	580	U	430	U
Acenaphthylene	660	U	570	U	610	U	580	U	430	U
3-Nitroaniline	1700	U	1400	U	1500	U	1500	U	1100	U
Acenaphthene	660	U	570	U	610	U	580	U	430	U

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00C7
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00D3		E00D4		E00D5		E00D6		E00D7	
Sampling Location :	X119		X120		X121		X122		X123	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001	
Time Sampled :	16:30		16:20		15:50		15:35		16:10	
%Moisture :	50		42		46		43		24	
pH :	3.5		4.4		3.6		4.1		4.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1700	R	1400	R	1500	R	1500	R	1100	R
4-Nitrophenol	1700	U	1400	U	1500	U	1500	U	1100	U
Dibenzofuran	660	U	570	U	610	U	580	U	430	U
2,4-Dinitrotoluene	660	U	570	U	610	U	580	U	430	U
Diethylphthalate	660	U	570	U	610	U	580	U	430	U
Fluorene	660	U	570	U	610	U	580	U	430	U
4-Chlorophenyl-phenyl ether	660	U	570	U	610	U	580	U	430	U
4-Nitroaniline	1700	UJ	1400	UJ	1500	UJ	1500	UJ	1100	UJ
4,6-Dinitro-2-methylphenol	1700	UJ	1400	UJ	1500	UJ	1500	UJ	1100	UJ
N-Nitrosodiphenylamine	660	U	570	U	610	U	580	U	430	U
4-Bromophenyl-phenylether	660	U	570	U	610	U	580	U	430	U
Hexachlorobenzene	660	U	570	U	610	U	580	U	430	U
Atrazine	660	R	570	R	610	R	580	R	430	R
Pentachlorophenol	1700	UJ	1400	UJ	1500	UJ	1500	UJ	1100	UJ
Phenanthrene	660	U	570	U	610	U	580	U	430	U
Anthracene	660	U	570	U	610	U	580	U	430	U
Carbazole	660	U	570	U	610	U	580	U	430	U
Di-n-butylphthalate	660	U	570	U	610	U	580	U	430	U
Fluoranthene	660	U	570	U	610	U	580	U	430	U
Pyrene	660	U	570	U	610	U	580	U	430	U
Butylbenzylphthalate	660	U	570	U	610	U	580	U	430	U
3,3'-Dichlorobenzidine	660	U	570	U	610	U	580	U	430	U
Benzo(a)anthracene	660	U	570	U	610	U	580	U	430	U
Chrysene	660	U	570	U	610	U	580	U	430	U
bis(2-Ethylhexyl)phthalate	660	U	570	U	610	U	580	U	430	U
Di-n-octylphthalate	660	U	570	U	610	U	580	U	430	U
Benzo(b)fluoranthene	660	U	570	U	610	U	580	U	430	U
Benzo(k)fluoranthene	660	U	570	U	610	U	580	U	430	U
Benzo(a)pyrene	660	U	570	U	610	U	580	U	430	U
Indeno(1,2,3-cd)pyrene	660	UJ	570	UJ	610	UJ	580	UJ	430	UJ
Dibenzo(a,h)anthracene	660	UJ	570	UJ	610	UJ	580	UJ	430	UJ
Benzo(g,h,i)perylene	660	UJ	570	UJ	610	UJ	580	UJ	430	UJ

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00C7
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00E6		E00E7		E00E7MS		E00E7MSD		E00E8	
Sampling Location :	X102		X103		X103		X103		X104	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001	
Time Sampled :	13:40		13:15		13:15		13:15		14:00	
%Moisture :	25		37		37		37		31	
pH :	7.4		6.5		6.5		6.5		5.6	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	440	U	520	U	520	U	520	U	480	U
Phenol	440	U	520	U	1800		1800		480	U
bis-(2-Chloroethyl) ether	440	U	520	U	520	U	520	U	480	U
2-Chlorophenol	440	U	520	U	1800		1800		480	U
2-Methylphenol	440	U	520	U	520	U	520	U	480	U
2,2'-oxybis(1-Chloropropane)	440	U	520	U	520	U	520	U	480	U
Acetophenone	440	U	520	U	520	U	520	U	480	U
4-Methylphenol	440	U	520	U	520	U	520	U	480	U
N-Nitroso-di-n-propylamine	440	U	520	U	1700		1800		480	U
Hexachloroethane	440	U	520	U	520	U	520	U	480	U
Nitrobenzene	440	U	520	U	520	U	520	U	480	U
Isophorone	440	U	520	U	520	U	520	U	480	U
2-Nitrophenol	440	U	520	U	520	U	520	U	480	U
2,4-Dimethylphenol	440	U	520	U	520	U	520	U	480	U
bis(2-Chloroethoxy)methane	440	U	520	U	520	U	520	U	480	U
2,4-Dichlorophenol	440	U	520	U	520	U	520	U	480	U
Naphthalene	440	U	520	U	520	U	520	U	480	U
4-Chloroaniline	440	U	520	U	520	U	520	U	480	U
Hexachlorobutadiene	440	U	520	U	520	U	520	U	480	U
Caprolactam	440	U	520	U	520	U	520	U	480	U
4-Chloro-3-methylphenol	440	U	520	U	2000		2000		480	U
2-Methylnaphthalene	440	U	520	U	520	U	520	U	480	U
Hexachlorocyclopentadiene	440	UJ	520	UJ	520	UJ	520	UJ	480	UJ
2,4,6-Trichlorophenol	440	U	520	U	520	U	520	U	480	U
2,4,5-Trichlorophenol	1100	U	1300	U	1300	U	1300	U	1200	U
1,1'-Biphenyl	440	U	520	U	520	U	520	U	480	U
2-Chloronaphthalene	440	U	520	U	520	U	520	U	480	U
2-Nitroaniline	1100	U	1300	U	1300	U	1300	U	1200	U
Dimethylphthalate	440	U	520	U	520	U	520	U	480	U
2,6-Dinitrotoluene	440	U	520	U	520	U	520	U	480	U
Acenaphthylene	440	U	520	U	520	U	520	U	480	U
3-Nitroaniline	1100	U	1300	U	1300	U	1300	U	1200	U
Acenaphthene	440	U	520	U	1600		1700		480	U

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00C7
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00E6		E00E7		E00E7MS		E00E7MSD		E00E8	
Sampling Location :	X102		X103		X103		X103		X104	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001	
Time Sampled :	13:40		13:15		13:15		13:15		14:00	
%Moisture :	25		37		37		37		31	
pH :	7.4		6.5		6.5		6.5		5.6	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1100	R	1300	R	1300	R	1300	R	1200	R
4-Nitrophenol	1100	U	1300	U	1900		2000		1200	U
Dibenzofuran	440	U	520	U	520	U	520	U	480	U
2,4-Dinitrotoluene	440	U	520	U	1700		1700		480	U
Diethylphthalate	440	U	520	U	520	U	520	U	480	U
Fluorene	440	U	520	U	520	U	520	U	480	U
4-Chlorophenyl-phenyl ether	440	U	520	U	520	U	520	U	480	U
4-Nitroaniline	1100	UJ	1300	UJ	1300	UJ	1300	UJ	1200	UJ
4,6-Dinitro-2-methylphenol	1100	UJ	1300	UJ	1300	UJ	1300	UJ	1200	UJ
N-Nitrosodiphenylamine	440	U	520	U	520	U	520	U	480	U
4-Bromophenyl-phenylether	440	U	520	U	520	U	520	U	480	U
Hexachlorobenzene	440	U	520	U	520	U	520	U	480	U
Atrazine	440	R	520	R	520	R	520	R	480	R
Pentachlorophenol	1100	UJ	1300	UJ	1300	J	1300	J	1200	UJ
Phenanthrene	440	U	520	U	520	U	520	U	480	U
Anthracene	440	U	520	U	520	U	520	U	480	U
Carbazole	440	U	520	U	520	U	520	U	480	U
Di-n-butylphthalate	440	U	520	U	520	U	520	U	480	U
Fluoranthene	440	U	520	U	520	U	520	U	480	U
Pyrene	440	U	520	U	1800		1900		480	U
Butylbenzylphthalate	440	U	520	U	520	U	520	U	480	U
3,3'-Dichlorobenzidine	440	U	520	U	520	U	520	U	480	U
Benzo(a)anthracene	440	U	520	U	520	U	520	U	480	U
Chrysene	440	U	520	U	520	U	520	U	480	U
bis(2-Ethylhexyl)phthalate	440	U	520	U	520	U	520	U	480	U
Di-n-octylphthalate	440	U	520	U	520	U	520	U	480	U
Benzo(b)fluoranthene	440	U	520	U	520	U	520	U	480	U
Benzo(k)fluoranthene	440	U	520	U	520	U	520	U	480	U
Benzo(a)pyrene	440	U	520	U	520	U	520	U	480	U
Indeno(1,2,3-cd)pyrene	440	UJ	520	UJ	520	UJ	520	UJ	480	UJ
Dibenzo(a,h)anthracene	440	UJ	520	UJ	520	UJ	520	UJ	480	UJ
Benzo(g,h,i)perylene	440	UJ	520	UJ	520	UJ	520	UJ	480	UJ

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00C7
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00E9		E00F0		E00F1		E00F2		E00F3	
Sampling Location :	X105		X106		X107		X108		X109	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001	
Time Sampled :	13:00		16:45		18:00		17:45		17:10	
%Moisture :	19		15		20		24		22	
pH :	5.4		6.9		6.3		4.2		8.3	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	410	U	390	U	410	U	430	U	420	U
Phenol	410	U	390	U	410	U	430	U	420	U
bis-(2-Chloroethyl) ether	410	U	390	U	410	U	430	U	420	U
2-Chlorophenol	410	U	390	U	410	U	430	U	420	U
2-Methylphenol	410	U	390	U	410	U	430	U	420	U
2,2'-oxybis(1-Chloropropane)	410	U	390	U	410	U	430	U	420	U
Acetophenone	410	U	390	U	410	U	430	U	420	U
4-Methylphenol	410	U	390	U	410	U	430	U	420	U
N-Nitroso-di-n-propylamine	410	U	390	U	410	U	430	U	420	U
Hexachloroethane	410	U	390	U	410	U	430	U	420	U
Nitrobenzene	410	U	390	U	410	U	430	U	420	U
Isophorone	410	U	390	U	410	U	430	U	420	U
2-Nitrophenol	410	U	390	U	410	U	430	U	420	U
2,4-Dimethylphenol	410	U	390	U	410	U	430	U	420	U
bis(2-Chloroethoxy)methane	410	U	390	U	410	U	430	U	420	U
2,4-Dichlorophenol	410	U	390	U	410	U	430	U	420	U
Naphthalene	410	U	390	U	410	U	430	U	420	U
4-Chloroaniline	410	U	390	U	410	U	430	U	420	U
Hexachlorobutadiene	410	U	390	U	410	U	430	U	420	U
Caprolactam	410	U	390	U	410	U	430	U	420	U
4-Chloro-3-methylphenol	410	U	390	U	410	U	430	U	420	U
2-Methylnaphthalene	410	U	390	U	410	UJ	430	UJ	420	UJ
Hexachlorocyclopentadiene	410	UJ	390	UJ	410	UJ	430	UJ	420	UJ
2,4,6-Trichlorophenol	410	U	390	U	410	U	430	U	420	U
2,4,5-Trichlorophenol	1000	U	980	U	1000	U	1100	U	1100	U
1,1'-Biphenyl	410	U	390	U	410	U	430	U	420	U
2-Chloronaphthalene	410	U	390	U	410	U	430	U	420	U
2-Nitroaniline	1000	U	980	U	1000	U	1100	U	1100	U
Dimethylphthalate	410	U	390	U	410	U	430	U	420	U
2,6-Dinitrotoluene	410	U	390	U	410	U	430	U	420	U
Acenaphthylene	410	U	390	U	410	U	430	U	420	U
3-Nitroaniline	1000	U	980	U	1000	U	1100	U	1100	U
Acenaphthene	410	U	390	U	410	U	430	U	420	U

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00C7
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00E9		E00F0		E00F1		E00F2		E00F3	
Sampling Location :	X105		X106		X107		X108		X109	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001	
Time Sampled :	13:00		16:45		18:00		17:45		17:10	
%Moisture :	19		15		20		24		22	
pH :	5.4		6.9		6.3		4.2		8.3	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1000	R	980	R	1000	UJ	1100	UJ	1100	UJ
4-Nitrophenol	1000	U	980	U	1000	U	1100	U	1100	U
Dibenzofuran	410	U	390	U	410	U	430	U	420	U
2,4-Dinitrotoluene	410	U	390	U	410	U	430	U	420	U
Diethylphthalate	410	U	390	U	410	U	430	U	420	U
Fluorene	410	U	390	U	410	U	430	U	420	U
4-Chlorophenyl-phenyl ether	410	U	390	U	410	U	430	U	420	U
4-Nitroaniline	1000	UJ	980	UJ	1000	UJ	1100	UJ	1100	UJ
4,6-Dinitro-2-methylphenol	1000	UJ	980	UJ	1000	UJ	1100	UJ	1100	UJ
N-Nitrosodiphenylamine	410	U	390	U	410	U	430	U	420	U
4-Bromophenyl-phenylether	410	U	390	U	410	U	430	U	420	U
Hexachlorobenzene	410	U	390	U	410	U	430	U	420	U
Atrazine	410	R	390	R	410	R	430	R	420	R
Pentachlorophenol	1000	UJ	980	UJ	1000	U	1100	U	1100	U
Phenanthrene	300	J	72	J	410	U	430	U	46	J
Anthracene	44	J	390	U	410	U	430	U	420	U
Carbazole	410	U	390	U	410	U	430	U	420	U
Di-n-butylphthalate	70	J	390	U	410	U	430	U	420	U
Fluoranthene	330	J	130	J	410	U	430	U	420	U
Pyrene	260	J	110	J	410	U	430	U	45	J
Butylbenzylphthalate	410	U	390	U	410	U	430	U	420	U
3,3'-Dichlorobenzidine	410	U	390	U	410	U	430	U	420	U
Benzo(a)anthracene	140	J	58	J	410	U	430	U	420	U
Chrysene	210	J	75	J	410	U	430	U	44	J
bis(2-Ethylhexyl)phthalate	410	U	390	U	410	U	430	U	470	U
Di-n-octylphthalate	410	U	390	U	410	U	430	U	420	U
Benzo(b)fluoranthene	180	J	76	J	410	U	430	U	420	U
Benzo(k)fluoranthene	120	J	79	J	410	U	430	U	420	U
Benzo(a)pyrene	140	J	82	J	410	U	430	U	420	U
Indeno(1,2,3-cd)pyrene	110	J	72	J	410	U	430	U	420	U
Dibenzo(a,h)anthracene	66	J	390	UJ	410	U	430	U	420	U
Benzo(g,h,i)perylene	410	UJ	390	UJ	410	U	430	U	420	U

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00C7
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00F4		E00F5		SBLKFJ					
Sampling Location :	X110		X124							
Matrix :	Soil		Soil		Soil					
Units :	ug/Kg		ug/Kg		ug/Kg					
Date Sampled :	05/08/2001		05/08/2001							
Time Sampled :	17:10		17:45							
%Moisture :	34		25		N/A					
pH :	4.7		4.1							
Dilution Factor :	1.0		1.0		1.0					
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	500	U	440	U	330	U				
Phenol	500	U	440	U	330	U				
bis-(2-Chloroethyl) ether	500	U	440	U	330	U				
2-Chlorophenol	500	U	440	U	330	U				
2-Methylphenol	500	U	440	U	330	U				
2,2'-oxybis(1-Chloropropane)	500	U	440	U	330	U				
Acetophenone	500	U	440	U	330	U				
4-Methylphenol	500	U	440	U	330	U				
N-Nitroso-di-n-propylamine	500	U	440	U	330	U				
Hexachloroethane	500	U	440	U	330	U				
Nitrobenzene	500	U	440	U	330	U				
Isophorone	500	U	440	U	330	U				
2-Nitrophenol	500	U	440	U	330	U				
2,4-Dimethylphenol	500	U	440	U	330	U				
bis(2-Chloroethoxy)methane	500	U	440	U	330	U				
2,4-Dichlorophenol	500	U	440	U	330	U				
Naphthalene	160	J	440	U	330	U				
4-Chloroaniline	500	U	440	U	330	U				
Hexachlorobutadiene	500	U	440	U	330	U				
Caprolactam	500	U	440	U	330	U				
4-Chloro-3-methylphenol	500	U	440	U	330	U				
2-Methylnaphthalene	490	J	440	UJ	330	U				
Hexachlorocyclopentadiene	500	UJ	440	UJ	330	UJ				
2,4,6-Trichlorophenol	500	U	440	U	330	U				
2,4,5-Trichlorophenol	1300	U	1100	U	830	U				
1,1'-Biphenyl	79	J	440	U	330	U				
2-Chloronaphthalene	500	U	440	U	330	U				
2-Nitroaniline	1300	U	1100	U	830	U				
Dimethylphthalate	500	U	440	U	330	U				
2,6-Dinitrotoluene	500	U	440	U	330	U				
Acenaphthylene	500	U	440	U	330	U				
3-Nitroaniline	1300	U	1100	U	830	U				
Acenaphthene	440	J	440	U	330	U				

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00C7
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00F4		E00F5		SBLKFJ					
Sampling Location :	X110		X124							
Matrix :	Soil		Soil		Soil					
Units :	ug/Kg		ug/Kg		ug/Kg					
Date Sampled :	05/08/2001		05/08/2001							
Time Sampled :	17:10		17:45							
%Moisture :	34		25		N/A					
pH :	4.7		4.1							
Dilution Factor :	1.0		1.0		1.0					
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1300	UJ	1100	UJ	830	R				
4-Nitrophenol	1300	U	1100	U	830	U				
Dibenzofuran	600		440	U	330	U				
2,4-Dinitrotoluene	500	U	440	U	330	U				
Diethylphthalate	500	U	440	U	330	U				
Fluorene	1500		440	U	330	U				
4-Chlorophenyl-phenyl ether	500	U	440	U	330	U				
4-Nitroaniline	1300	UJ	1100	UJ	830	UJ				
4,6-Dinitro-2-methylphenol	1300	UJ	1100	UJ	830	UJ				
N-Nitrosodiphenylamine	500	U	440	U	330	U				
4-Bromophenyl-phenylether	500	U	440	U	330	U				
Hexachlorobenzene	500	U	440	U	330	U				
Atrazine	500	R	440	R	330	R				
Pentachlorophenol	1300	U	1100	U	830	UJ				
Phenanthrene	320	J	440	U	330	U				
Anthracene	180	J	440	U	330	U				
Carbazole	85	J	440	U	330	U				
Di-n-butylphthalate	500	U	440	U	330	U				
Fluoranthene	71	J	440	U	330	U				
Pyrene	150	J	440	U	330	U				
Butylbenzylphthalate	500	U	440	U	330	U				
3,3'-Dichlorobenzidine	500	U	440	U	330	U				
Benzo(a)anthracene	500	U	440	U	330	U				
Chrysene	53	J	440	U	330	U				
bis(2-Ethylhexyl)phthalate	500	U	440	U	55	J				
Di-n-octylphthalate	500	U	440	U	330	U				
Benzo(b)fluoranthene	500	U	440	U	330	U				
Benzo(k)fluoranthene	500	U	440	U	330	U				
Benzo(a)pyrene	500	U	440	U	330	U				
Indeno(1,2,3-cd)pyrene	500	U	440	U	330	UJ				
Dibenzo(a,h)anthracene	500	U	440	U	330	UJ				
Benzo(g,h,i)perylene	500	U	440	U	330	UJ				

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00C7
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Number of Soil Samples : 20
Number of Water Samples : 0

Sample Number :	E00C7		E00C8		E00C9		E00D1		E00D2	
Sampling Location :	X111		X112		X116		X117		X118	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001	
Time Sampled :	17:15		15:15		17:00		16:45		16:30	
%Moisture :	27		50		39		15		22	
pH :	3.2		3.9		3.7		7.1		7.3	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2.3	U	3.4	U	2.8	U	2.0	U	2.2	U
beta-BHC	0.84	J	3.4	U	2.8	U	0.95	J	1.1	J
delta-BHC	2.3	U	3.4	U	2.8	U	2.0	U	2.2	U
gamma-BHC (Lindane)	2.3	U	3.4	U	2.8	U	2.0	U	2.2	U
Heptachlor	2.3	U	3.4	U	2.8	U	2.0	U	2.2	U
Aldrin	2.3	U	3.4	U	2.8	U	2.0	U	2.2	U
Heptachlor epoxide	2.3	U	3.4	U	2.8	U	2.0	U	2.2	U
Endosulfan I	2.3	U	3.4	U	2.8	U	2.0	U	2.2	U
Dieldrin	4.5	U	6.6	U	5.4	U	3.9	U	4.2	U
4,4'-DDE	4.5	U	6.6	U	5.4	U	3.9	U	4.2	U
Endrin	4.5	U	6.6	U	5.4	U	3.9	U	4.2	U
Endosulfan II	4.5	U	6.6	U	5.4	U	3.9	U	4.2	U
4,4'-DDD	4.5	U	6.6	U	5.4	U	3.9	U	4.2	U
Endosulfan sulfate	4.5	U	6.6	U	5.4	U	3.9	U	4.2	U
4,4'-DDT	4.5	U	6.6	U	5.4	U	3.9	U	4.2	U
Methoxychlor	23	U	34	U	28	U	20	U	22	U
Endrin ketone	4.5	U	6.6	U	5.4	U	3.9	U	4.2	U
Endrin aldehyde	4.5	U	6.6	U	5.4	U	3.9	U	4.2	U
alpha-Chlordane	2.3	U	3.4	U	2.8	U	2.0	U	2.2	U
gamma-Chlordane	2.3	U	3.4	U	2.8	U	2.0	U	2.2	U
Toxaphene	230	U	340	U	280	U	200	U	220	U
Aroclor-1016	45	U	66	U	54	U	39	U	42	U
Aroclor-1221	92	U	130	U	110	U	79	U	86	U
Aroclor-1232	45	U	66	U	54	U	39	U	42	U
Aroclor-1242	45	U	66	U	54	U	39	U	42	U
Aroclor-1248	45	U	66	U	54	U	39	U	42	U
Aroclor-1254	45	U	66	U	54	U	39	U	42	U
Aroclor-1260	45	U	66	U	54	U	39	U	42	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00C7
Site : AMERICAN CYANAMIDE
Lab. . LIBRTY
Reviewer :
Date :

Sample Number :	E00D3		E00D4		E00D5		E00D6		E00D7	
Sampling Location :	X119		X120		X121		X122		X123	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	05/07/2001		05/07/2001		05/07/2001		05/07/2001		05/07/2001	
Time Sampled :	16:30		16:20		15:50		15:35		16:10	
%Moisture .	50		42		46		43		24	
pH :	3.5		4.4		3.6		4.1		4.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1 0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	3.4	U	2.9	U	3.2	U	3.0	U	2.2	U
beta-BHC	3.4	U	2.9	U	3.2	U	2.1	J	2.2	U
delta-BHC	3.4	U	2.9	U	3.2	U	3.0	U	2.2	U
gamma-BHC (Lindane)	3.4	U	2.9	U	3.2	U	3.0	U	2.2	U
Heptachlor	3.4	U	2.9	U	3.2	U	3.0	U	2.2	U
Aldrin	3.4	U	2.9	U	3.2	U	3.0	U	2.2	U
Heptachlor epoxide	3.4	U	2.9	U	3.2	U	3.0	U	2.2	U
Endosulfan I	3.4	U	2.9	U	3.2	U	3.0	U	2.2	U
Dieldrin	6.6	U	5.7	U	6.1	U	5.8	U	3.6	J
4,4'-DDE	6.6	U	5.7	U	6.1	U	5.8	U	4.3	U
Endrin	6.6	U	5.7	U	6.1	U	5.8	U	4.3	U
Endosulfan II	6.6	U	5.7	U	6.1	U	5.8	U	4.3	U
4,4'-DDD	6.6	U	5.7	U	6.1	U	5.8	U	4.3	U
Endosulfan sulfate	6.6	U	5.7	U	6.1	U	5.8	U	4.3	U
4,4'-DDT	6.6	U	5.7	U	6.1	U	5.8	U	4.3	U
Methoxychlor	34	U	29	U	31	U	30	U	22	U
Endrin ketone	6.6	U	5.7	U	6.1	U	5.8	U	4.3	U
Endrin aldehyde	6.6	U	5.7	U	6.1	U	5.8	U	4.3	U
alpha-Chlordane	3.4	U	2.9	U	3.2	U	3.0	U	2.2	U
gamma-Chlordane	3.4	U	2.9	U	3.2	U	3.0	U	2.2	U
Toxaphene	340	U	290	U	310	U	300	U	220	U
Aroclor-1016	66	U	57	U	61	U	58	U	43	U
Aroclor-1221	130	U	120	U	120	U	120	U	88	U
Aroclor-1232	66	U	57	U	61	U	58	U	43	U
Aroclor-1242	66	U	57	U	61	U	58	U	43	U
Aroclor-1248	66	U	57	U	61	U	58	U	43	U
Aroclor-1254	66	U	57	U	61	U	58	U	43	U
Aroclor-1260	66	U	57	U	61	U	58	U	43	U

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00C7
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00E6		E00E7		E00E7MS		E00E7MSD		E00E8	
Sampling Location :	X102		X103		X103		X103		X104	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001	
Time Sampled :	13:40		13:15		13:15		13:15		14 00	
%Moisture :	25		37		37		37		31	
pH :	7.4		6.5		6.5		6.5		5.6	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.5	J	2.7	U	2.7	U	2.7	U	2.5	U
beta-BHC	2.3	U	2.7	U	2.2	J	1.1	J	2.5	U
delta-BHC	2.3	U	2.7	U	2.7	U	2.7	U	2.5	U
gamma-BHC (Lindane)	2.3	U	2.7	UJ	17		7.8		2.5	U
Heptachlor	2.3	U	2.7	UJ	16		8.1		2.5	U
Aldrin	2.3	U	2.7	U	13		8.9		2.5	U
Heptachlor epoxide	2.3	U	2.5	J	2.7	U	2.5	J	2.5	U
Endosulfan I	2.3	U	2.7	U	2.7	U	2.7	U	2.5	U
Dieldrin	4.4	U	5.2	U	35		25		4.8	U
4,4'-DDE	4.4	U	5.2	U	5.2	U	5.2	U	4.8	U
Endrin	4.4	U	5.2	U	41		33		4.8	U
Endosulfan II	4.4	U	5.2	U	5.2	U	5.2	U	4.8	U
4,4'-DDD	4.4	U	5.2	U	5.2	U	5.2	U	4.8	U
Endosulfan sulfate	4.4	U	5.2	U	5.2	U	5.2	U	4.8	U
4,4'-DDT	4.4	U	5.2	U	38		30		4.8	U
Methoxychlor	23	U	27	U	27	U	27	U	25	U
Endrin ketone	4.4	U	5.2	U	3.1	J	5.2	U	4.8	U
Endnn aldehyde	4.4	U	5.2	U	5.2	U	5.2	U	4.8	U
alpha-Chlordane	2.3	U	2.7	U	2.7	U	9.2		2.5	U
gamma-Chlordane	2.3	U	2.7	U	2.7	U	2.7	U	2.5	U
Toxaphene	230	U	270	U	270	U	270	U	250	U
Aroclor-1016	44	U	52	U	52	U	52	U	48	U
Aroclor-1221	89	U	110	U	110	U	110	U	97	U
Aroclor-1232	44	U	52	U	52	U	52	U	48	U
Aroclor-1242	44	U	52	U	52	U	52	U	48	U
Aroclor-1248	44	U	52	U	52	U	52	U	48	U
Aroclor-1254	17	J	52	U	52	U	52	U	48	U
Aroclor-1260	44	U	52	U	52	U	52	U	48	U

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00C7
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00E9		E00F0		E00F1		E00F2		E00F3	
Sampling Location :	X105		X106		X107		X108		X109	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	05/08/2001		05/08/2001		05/08/2001		05/08/2001		05/08/2001	
Time Sampled :	13:00		16:45		18:00		17:45		17:10	
%Moisture :	19		15		20		24		22	
pH :	5.4		6.9		6.3		4.2		8.3	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2.1	U	2.0	U	2.1	U	2.2	U	2.2	U
beta-BHC	2.1	U	2.0		2.1	U	2.2	U	2.2	U
delta-BHC	2.1	U	2.0	U	2.1	U	2.2	U	2.2	U
gamma-BHC (Lindane)	2.1	U	2.0	U	2.1	U	2.2	U	2.2	U
Heptachlor	2.1	U	2.0	U	2.1	U	2.2	U	2.2	U
Aldrin	2.1	U	2.0	U	2.1	U	2.2	U	2.2	U
Heptachlor epoxide	2.1	U	2.0	U	2.1	U	2.2	U	2.2	U
Endosulfan I	0.89	J	0.96	J	2.1	U	2.2	U	2.2	U
Dieldrin	4.1	U	3.9	U	4.1	U	4.3	U	4.2	U
4,4'-DDE	1.5	J	9.4		4.1	U	4.3	U	4.2	U
Endrin	3.4	J	3.9	U	4.1	U	4.3	U	4.2	U
Endosulfan II	4.1	U	3.9	U	4.1	U	4.3	U	4.2	U
4,4'-DDD	4.1	U	3.9	U	4.1	U	4.3	U	4.2	U
Endosulfan sulfate	4.1	U	16		4.1	U	4.3	U	4.2	U
4,4'-DDT	7.5		3.9	U	4.1	U	4.3	U	4.2	U
Methoxychlor	21	U	20	U	21	U	22	U	22	U
Endrin ketone	2.2	J	3.9	U	4.6		4.3	U	4.2	U
Endrin aldehyde	0.76	J	13		3.5	J	4.3	U	1.1	J
alpha-Chlordane	0.78	J	2.0	U	2.1	U	2.2	U	2.2	U
gamma-Chlordane	0.99	J	2.0	U	2.1	U	2.2	U	2.2	U
Toxaphene	210	U	200	U	210	U	220	U	220	U
Aroclor-1016	41	U	39	U	41	U	43	U	42	U
Aroclor-1221	83	U	79	U	84	U	88	U	86	U
Aroclor-1232	41	U	39	U	41	U	43	U	42	U
Aroclor-1242	41	U	39	U	41	U	43	U	42	U
Aroclor-1248	41	U	39	U	41	U	43	U	42	U
Aroclor-1254	41	U	960		84		10	J	42	U
Aroclor-1260	41	U	39	U	41	U	43	U	42	U

Analytical Results (Qualified Data)

Case #: 29241 SDG : E00C7
Site : AMERICAN CYANAMIDE
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00F4		E00F5		PBLKFK					
Sampling Location :	X110		X124							
Matrix :	Soil		Soil		Soil					
Units :	ug/Kg		ug/Kg		ug/Kg					
Date Sampled :	05/08/2001		05/08/2001							
Time Sampled :	17:10		17:45							
%Moisture :	34		25		N/A					
pH :	4.7		4.1							
Dilution Factor :	1.0		1.0		1.0					
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2.6	U	2.3	UJ	1.7	U				
beta-BHC	2.6	U	2.3	UJ	1.7	U				
delta-BHC	2.6	U	2.3	UJ	1.7	U				
gamma-BHC (Lindane)	2.6	U	2.3	UJ	1.7	U				
Heptachlor	2.6	U	2.3	UJ	1.7	U				
Aldrin	2.6	U	2.3	UJ	1.7	U				
Heptachlor epoxide	2.6	U	2.3	UJ	1.7	U				
Endosulfan I	2.6	U	2.3	UJ	1.7	U				
Dieldrin	5.0	U	4.4	UJ	3.3	U				
4,4'-DDE	5.0	U	4.4	UJ	3.3	U				
Endrin	5.0	U	4.4	UJ	3.3	U				
Endosulfan II	5.0	U	4.4	UJ	3.3	U				
4,4'-DDD	5.0	U	4.4	UJ	3.3	U				
Endosulfan sulfate	5.0	U	4.4	UJ	3.3	U				
4,4'-DDT	27		4.4	UJ	3.3	U				
Methoxychlor	26	U	23	UJ	17	U				
Endrin ketone	3.2	J	4.4	UJ	3.3	U				
Endrin aldehyde	4.1	J	4.4	UJ	3.3	U				
alpha-Chlordane	2.6	U	2.3	UJ	1.7	U				
gamma-Chlordane	2.6	U	2.3	UJ	1.7	U				
Toxaphene	260	U	230	UJ	170	U				
Aroclor-1016	50	U	44	UJ	33	U				
Aroclor-1221	100	U	89	UJ	67	U				
Aroclor-1232	50	U	44	UJ	33	U				
Aroclor-1242	50	U	44	UJ	33	U				
Aroclor-1248	50	U	44	UJ	33	U				
Aroclor-1254	50	U	44	UJ	33	U				
Aroclor-1260	50	U	44	UJ	33	U				

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 5-29-01

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: American Cyanamide (IL)

CASE NUMBER: 29241 SDG NUMBER: E00C7

Number and Type of Samples: 20 (soil)

Sample Numbers: E00C7-9, E00D1-7, E00E6-9, E00F0-5

Laboratory: Compuchem Hrs for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

LIBERTY ANALYTICAL
501 Madison Avenue
Cary, NC 27513

ORIGINAL

SAMPLE DELIVERY GROUP(SDG) TRAFFIC REPORT(TR) COVER SHEET

SDG Number E00C7

Laboratory Name COMPUCHEM

Laboratory Code LIBRTY

Contract No. 68W99070

Case No. 29241

Analysis Price $ 467.00

SDG turnaround 21 DAY

EPA Sample Numbers in SDG (Listed in Numerical order):

1)	E00C7	7)	E00D4	13)	E00E8	19)	E00F4
2)	E00C8	8)	E00D5	14)	E00E9	20)	E00F5
3)	E00C9	9)	E00D6	15)	E00F0	~~21)~~	
4)	E00D1	10)	E00D7	16)	E00F1	22)	
5)	E00D2	11)	E00E6	17)	E00F2	23)	
6)	E00D3	12)	E00E7	18)	E00F3	~~24)~~	

MJS 5/10/01

E00C7	E00F5
First Sample in SDG	Last Sample in SDG
05/10/01	05/10/01
First Sample Receipt Date	Last Sample Receipt Date

Note: There are a maximum of 20 **field** samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Signature: Melissa Stevens Date: 05/10/01

USEPA Contract Laboratory Program
Organic Traffic Report

Case No:	29241
DAS No:	
SDG No:	E00C7, E00E0

L

Date Shipped: 5/9/01	Date Received/Received by: 5/10/01 M. Sh[illegible]	Sampler (Signature): Bruce Everetts	
Carrier Name: FedEx	Lab Contract No: CSW[illegible]070 Unit Price: 84.67		
Airbill: 4684285056		Relinquished By: [illegible]	Date / Time: 5-9/1400
Shipped to: Liberty Analytical, 501 Madison Avenue, Cary NC 27513, (919) 379-4080	Transfer To:	Relinquished By:	Date / Time:
	Date Received/Received By:	Relinquished By:	Date / Time: 5/10/01, 8:45
	Lab Contract No: Price:		Received By: [illegible]

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00C7	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-43669 (Ice Only) (1)	X111	5/7/01 17:15	ME00C7	Good
E00C8	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-43671 (Ice Only) (1)	X112	5/7/01 15:15	ME00C8	
E00C9	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-43673 (1)	X116	5/7/01 17:00	ME00C9	
E00D4	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-43681 (1)	X120	5/7/01 16:20	ME00D4	
E00D5	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-43683 (1)	X121	5/7/01 15:50	ME00D5	
E00D6	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-43685 (1)	X122	5/7/01 15:35	ME00D6	
E00D1	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-43675 (1)	X117	5/7/01 16:45	ME00D1	
E00D2	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-43677 (1)	X118	5/7/01 16:30	ME00D2	
E00D3	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-43679 (1)	X119	5/7/01 16:30	ME00D3	
E00D7	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-43687 (1)	X123	5/7/01 16:10	ME00D7	
E00E0	Ground Water/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-43696, 5-43697 (Ice Only) (2)	G104	5/8/01 9:45	ME00E0	
E00E2	Ground Water/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-55040 (Ice Only), 5-55041 (2)	G106	5/8/01 11:45	ME00E2	
E00E3	Ground Water/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-97165 (Ice Only), 5-97166 (Ice Only), 5-97167 (Ice Only), 5-97168 (Ice Only), 5-97169 (Ice Only), 5-97170 (Ice Only) (6)	G102	5/8/01 12:30	ME00E3	

ORIGINAL

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E00E7	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2°, 5°	Chain of Custody Seal Number: 26025 thru 26032
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston VA 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-390575112-050901-0001

USEPA Contract Laboratory Program ORIGINAL
Organic Traffic Report

Case No: 29241
DAS No:
SDG No: E00C7, E00E0

Date Shipped: 5/9/01 **Carrier Name:** FedEx **Airbill:** 4684285056 **Shipped to:** Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080	**Date Received/Received by:** 5/10/01 M. Slo **Lab Contract No:** 68W99070 **Unit Price:** $467.00 **Transfer To:** **Date Received/Received By:** **Lab Contract No:** **Price:**	**Sampler (Signature):** Bruce Everett

Relinquished By:	Date / Time:	Received By:
Lane L Range	5-9/ 1400	
Relinquished By:	Date / Time:	Received By:
Relinquished By:	Date / Time: 5/10/01, 8:45	Courtney [illegible]

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00E4	Ground Water/ Bruce Everetts	L/G	PEST (21)	5-97176 (Ice Only) (1)	G101	5/8/01 15:15	ME00E4	Bottles has BNA + Pest.?
E00E6	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97180 (Ice Only) (1)	X102	5/8/01 13:40	ME00E6	Good
E00E7	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97182 (Ice Only) (1)	X103	5/8/01 13:15	ME00E7	
E00E8	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97184 (Ice Only) (1)	X104	5/8/01 14:00	ME00E8	
E00E9	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97186 (Ice Only) (1)	X105	5/8/01 13:00	ME00E9	
E00F0	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97188 (Ice Only) (1)	X106	5/8/01 16:45	ME00F0	
E00F1	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97190 (Ice Only) (1)	X107	5/8/01 18:00	ME00F1	
E00F2	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97192 (Ice Only) (1)	X108	5/8/01 17:45	ME00F2	
E00F3	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97194 (Ice Only) (1)	X109	5/8/01 17:10	ME00F3	
E00F4	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97196 (Ice Only) (1)	X110	5/8/01 17:10	ME00F4	
E00F5	Soil/Sediment/ Bruce Everetts	L/G	BNA/PEST (21)	5-97198 (Ice Only) (1)	X124	5/8/01 17:45	ME00F5	SDG Final Sample
E00F6	Ground Water/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-97051 (Ice Only), 5-97052 (Ice Only) (2)	G108	5/8/01 15:35	ME00F6	
E00F7	Ground Water/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-97056 (Ice Only), 5-97057 (Ice Only) (2)	G109	5/8/01 17:30	ME00F7	
E00F8	Ground Water/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-97061 (Ice Only), 5-97062 (Ice Only) (2)	G111	5/8/01 17:45	ME00F8	
E00F9	Ground Water/ Bruce Everetts	L/G	BNA (21), PEST (21)	5-97066 (Ice Only), 5-97067 (Ice Only) (2)	G113	5/9/01 8:10	ME00F9	

Shipment for Case Complete?	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
Y	E00E7		2°, 5°	26025 thru 26032

Analysis Key: **Concentration:** L = Low, M = Low/Medium, H = High **Type/Designate:** Composite = C, Grab = G **Custody Seal Intact?** ___ **Shipment Iced?** ___

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs

PR provides preliminary results. Requests for preliminary resuls will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-390575112-050901-0001

MAY 2 9 2001

COMPUCHEM
A division of Liberty Analytical Corporation
501 Madison Ave.
Cary, NC 27513

SDG NARRATIVE

CASE # 29241
SDG # E00C7
CONTRACT #68W99070

SAMPLE IDENTIFICATIONS:

E00C7 E00C8 E00C9 E00D1 E00D2 E00D3 E00D4 E00D5 E00D6 E00D7
E00E6 E00E7 E00E8 E00E9 E00F0 E00F1 E00F2 E00F3 E00F4 E00F5

The twenty (20) soil samples listed above were received intact, properly refrigerated, with proper documentation, in a sealed shipping container, on May 10, 2001. The temperatures of the samples at the time of receipt was 2 and 5°C. The samples were scheduled for the requested analyses of the semivolatile and pesticide/PCB fractions. These samples were analyzed following the current EPA Contract for the Laboratory Program, Document number OLM04.2.

All pertinent Quality Assurance notices are included in the narrative section and all pertinent Laboratory notices are included in the sample data sections.

SEMIVOLATILE
The semivolatile fractions were extracted and analyzed within the required holding time. The percent moisture values for the samples ranged from 15% to 50% and the pH values ranged from 3.2 to 8.3.

One to two Target Compound List (TCL) analytes were detected with concentrations above the Contract Required Quantitation Limit (CRQL) in three of the samples. These analytes were bis(2-ethylhexyl)phthalate, fluorene and dibenzofuran.

One to twenty-seven Tentatively Identified Compounds (TIC) were detected in the samples. Many of these TICs were assessed as unknowns, substituted naphthalene, substituted benzenes, amides, PAHs, PCBs, benzeneacetonitrile, benzeneacetic acids, phenols and phthalates. Other TICs were detected and assessed as unknown alkanes in some of the samples. The TICs that were characterized as alkanes have been summarized on the Alkane Narrative Report that is located in the narrative section of the data package. The TIC spectra for the alkanes are located in the data section for the individual samples.

QC SUMMARY
All decafluorotriphenylphosphine (DFTPP) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

The surrogates met recovery criteria for the semivolatile fractions. The internal standards met area response and retention time criteria.

E00E7 was used as the original to prepare the duplicate matrix spikes as requested. The duplicate matrix spikes met accuracy and precision criteria.

The associated blanks met Quality Control criteria.

In the analyses of the Initial and Continuing Calibration standards and samples E00C7, E00D1, E00D2, E00E9, E00F0, E00F3 and E00F4, manual quantitations were performed. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature:

Patricia B. Hopkins

Patricia B. Hopkins
Data Analyst II
24 May 2001

Note: This report is paginated for reference and accountability in numerical sequence.

ALKANE NARRATIVE REPORT
Report date : 05/24/2001
SDG: E00C7

Client Sample ID: E00C8 Lab Sample ID: E00C7-2 File ID: E00C7-2A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	7.23	327.9	J
Branched Alkane	7.85	163.5	J
Branched Alkane	7.95	147.8	J
Straight-Chain Alkane	8.34	445.5	J
Branched Alkane	8.50	310.1	J
Straight-Chain Alkane	9.37	515.2	J
Branched Alkane	9.56	168.6	J
Cyclic Alkane	9.85	218.8	J
Straight-Chain Alkane	10.35	482.8	J
Cyclic Alkane	10.83	182.7	J
Branched Alkane	10.91	315.8	J
Straight-Chain Alkane	12.11	139.8	J

Client Sample ID: E00D1 Lab Sample ID: E00C7-4 File ID: E00C7-4A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	7.24	171.5	J
Straight-Chain Alkane	8.34	185.8	J
Branched Alkane	8.49	136.4	J
Unknown Alkane	9.10	159.9	J
Straight-Chain Alkane	9.39	253.5	J
Straight-Chain Alkane	10.35	171.0	J
Straight-Chain Alkane	10.91	119.1	J
Straight-Chain Alkane	12.11	144.6	J
Branched Alkane	12.51	132.0	J
Branched Alkane	12.87	106.3	J
Branched Alkane	12.90	193.7	J
Straight-Chain Alkane	14.17	88.43	J
Straight-Chain Alkane	14.83	88.84	J
Straight-Chain Alkane	16.08	96.69	J
Straight-Chain Alkane	16.67	91.55	J
Straight-Chain Alkane	17.80	100.2	J
Straight-Chain Alkane	18.34	109.3	J
Straight-Chain Alkane	18.90	91.54	J
Straight-Chain Alkane	20.27	119.2	J
Straight-Chain Alkane	22.17	86.29	J

Client Sample ID: E00D2 Lab Sample ID: E00C7-5 File ID: E00C7-5A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	12.11	119.4	J
Straight-Chain Alkane	20.27	107.3	J
Straight-Chain Alkane	22.17	90.98	J

Client Sample ID: E00D7 Lab Sample ID: E00C7-10 File ID: E00C7-10A66

Compound	RT	Est. Conc.	Q
Branched Alkane	12.92	96.36	J
Straight-Chain Alkane	18.90	130.5	J
Branched Alkane	19.52	93.99	J
Straight-Chain Alkane	20.27	441.0	J

Straight-Chain Alkane	22.19	463.3	J
Straight-Chain Alkane	25.03	226.9	J

'lient Sample ID: E00E6 Lab Sample ID: E00C7-11 File ID: E00C7-11A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	20.27	111.1	J
Straight-Chain Alkane	22.17	110.8	J

Client Sample ID: E00E7 Lab Sample ID: E00C7-12 File ID: E00C7-12A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	22.19	119.6	J

Client Sample ID: E00E8 Lab Sample ID: E00C7-13 File ID: E00C7-13A66

Compound	RT	Est. Conc.	Q
Branched Alkane	12.92	117.7	J

Client Sample ID: E00E9 Lab Sample ID: E00C7-14 File ID: E00C7-14A66

Compound	RT	Est. Conc.	Q
Branched Alkane	9.11	105.1	J
Straight-Chain Alkane	9.38	189.4	J
Straight-Chain Alkane	10.35	153.9	J
'clic Alkane	10.84	113.3	J
ranched Alkane	10.92	117.9	J
Straight-Chain Alkane	12.12	214.7	J
Unknown Alkane	12.88	136.9	J
Branched Alkane	12.91	222.9	J
Straight-Chain Alkane	14.18	93.77	J
Straight-Chain Alkane	14.82	122.9	J
Straight-Chain Alkane	16.68	87.39	J
Straight-Chain Alkane	17.25	240.5	J
Straight-Chain Alkane	17.81	269.9	J
Straight-Chain Alkane	18.35	145.1	J
Straight-Chain Alkane	18.91	252.6	J
Straight-Chain Alkane	19.53	102.8	J
Branched Alkane	20.28	484.0	J
Straight-Chain Alkane	21.14	110.2	J
Straight-Chain Alkane	22.20	473.2	J
Straight-Chain Alkane	23.47	115.8	J
Straight-Chain Alkane	25.04	175.7	J

Client Sample ID: E00F0 Lab Sample ID: E00C7-15 File ID: E00C7-15A66

Compound	RT	Est. Conc.	Q
Branched Alkane	10.92	87.43	J
Straight-Chain Alkane	12.11	145.6	J
Straight-Chain Alkane	12.88	105.8	J
Branched Alkane	18.66	90.92	J
'traight-Chain Alkane	18.91	111.9	J
raight-Chain Alkane	20.28	237.7	J
Straight-Chain Alkane	22.19	228.0	J
Straight-Chain Alkane	25.03	89.66	J

Client Sample ID: E00F1 Lab Sample ID: E00C7-16 File ID: E00C7-16B66

Compound	RT	Est. Conc.	Q
Branched Alkane	12.91	256.5	J
Straight-Chain Alkane	17.81	92.32	J
Straight-Chain Alkane	18.35	406.3	J
Straight-Chain Alkane	18.93	169.8	J
Straight-Chain Alkane	20.30	615.2	J
Unknown Alkane	21.17	84.66	J
Straight-Chain Alkane	22.22	221.3	J

Client Sample ID: E00F2 Lab Sample ID: E00C7-17 File ID: E00C7-17B66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	20.27	223.7	J
Straight-Chain Alkane	22.19	320.4	J
Straight-Chain Alkane	25.03	96.40	J

Client Sample ID: E00F3 Lab Sample ID: E00C7-18 File ID: E00C7-18B66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	18.93	1241	J
Branched Alkane	19.17	1287	J
Straight-Chain Alkane	19.57	1316	J
Straight-Chain Alkane	20.32	1851	J
Straight-Chain Alkane	21.19	2537	J
Straight-Chain Alkane	23.56	518.3	J
Branched Alkane	25.16	679.8	J
Straight-Chain Alkane	27.11	839.4	J

Client Sample ID: E00F4 Lab Sample ID: E00C7-19 File ID: E00C7-19B66

Compound	RT	Est. Conc.	Q
Cyclic Alkane	10.90	2640	J
Branched Alkane	12.98	5870	J
Straight-Chain Alkane	13.66	6317	J
Straight-Chain Alkane	13.83	3163	J
Branched Alkane	14.20	6258	J
Straight-Chain Alkane	14.77	5622	J
Branched Alkane	15.36	4026	J
Branched Alkane	18.17	3814	J
Straight-Chain Alkane	18.60	4689	J
Branched Alkane	18.72	6893	J
Straight-Chain Alkane	19.21	6555	J
Unknown Alkane	19.75	4578	J
Cyclic Alkane	20.01	4079	J
Branched Alkane	20.14	4627	J
Straight-Chain Alkane	20.36	5297	J
Straight-Chain Alkane	20.53	4103	J

Client Sample ID: E00F5 Lab Sample ID: E00C7-20 File ID: E00C7-20B66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	20.28	210.8	J
Straight-Chain Alkane	22.23	237.6	J
Straight-Chain Alkane	25.06	146.3	J

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

CASE #29241
SDG #E00C7
CONTRACT #68W99070

SAMPLE IDENTIFICATIONS: E00C7, E00C8, E00C9, E00D1, E00D2, E00D3, E00D4, E00D5, E00D6, E00D7, E00E6, E00E7, E00E8, E00E9, E00F0, E00F1, E00F2, E00F3, E00F4, E00F5

The twenty soil samples listed above were scheduled for the requested analyses of the pesticide fractions.

Extraction and analysis holding time requirements were met for all of these samples. Samples E00F0, E00E9 and E00F4 each confirmed target compounds above the reporting limits. Sample E00F0 required GCMS confirmation for Aroclor-1254 found in the GCMS tic analysis. An aliquot of the corresponding method blank the sample were concentrated and analyzed by GCMS. No target compounds were present in the blank. Aroclor-1254 confirmed in the sample.

The surrogate, decachlorobiphenyl, was outside method advisory limits on one column for samples E00F3 and E00F5 due to suspected matrix interference. The remaining surrogates were within advisory recovery limits. All surrogates met retention time criteria in the analyses of these samples. The associated method blank met all quality control criteria. The associated duplicate matrix spikes were performed on sample E00E7. All compounds were within criteria in the matrix spike; however, Endrin and Heptachlor exhibited low recovery in the duplicate.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted electronically has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Katrina L. Travis
GC/HPLC Manager
May 24, 2001

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL). or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

DATA REPORTING QUALIFIERS (continued)

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	SBLKFJ	60	57	68	55	49	48	57	53	0
02	E00C7	54	50	61	55	46	49	54	36	0
03	E00C8	50	46	55	47	45	47	50	36	0
04	E00C9	57	54	59	51	45	44	53	54	0
05	E00D1	67	63	65	62	57	60	64	63	0
06	E00D2	59	58	59	57	55	58	62	59	0
07	E00D3	59	52	62	54	49	47	59	42	0
08	E00D4	58	55	61	51	44	50	51	54	0
09	E00D5	54	51	53	49	42	44	48	50	0
10	E00D6	56	55	56	52	45	46	54	53	0
11	E00D7	66	64	62	60	51	54	61	62	0
12	E00E6	64	58	60	56	47	44	54	60	0
13	E00E7	51	50	65	54	45	48	53	29	0
14	E00E7MS	52	49	54	51	43	45	50	31	0
15	E00E7MSD	45	46	50	44	39	42	45	31	0
16	E00E8	62	54	63	59	53	51	59	47	0
17	E00E9	72	72	73	71	65	67	74	69	0
18	E00F0	80	84	89	75	71	66	83	78	0
19	E00F1	62	65	61	60	56	53	65	60	0
20	E00F2	46	49	49	46	41	41	46	37	0
21	E00F3	51	54	53	49	46	39	52	40	0
22	E00F4	59	62	58	59	51	50	61	48	0
23	E00F5	57	60	56	57	50	45	58	58	0
24										
25										
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix Spike - EPA Sample No.: E00E7 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	3968	0.00	1798	45	26- 90
2-Chlorophenol	3968	0.00	1807	46	25-102
N-Nitroso-di-n-prop.(1)	2646	0.00	1719	65	41-126
4-Chloro-3-methylphenol	3968	0.00	2027	51	26-103
Acenaphthene	2646	0.00	1609	61	31-137
4-Nitrophenol	3968	0.00	1939	49	11-114
2,4-Dinitrotoluene	2646	0.00	1650	62	28- 89
Pentachlorophenol	3968	0.00	1322	33	17-109
Pyrene	2646	0.00	1799	68	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3968	1775	45	0	35	26- 90
2-Chlorophenol	3968	1808	46	0	50	25-102
N-Nitroso-di-n-prop.(1)	2646	1788	68	5	38	41-126
4-Chloro-3-methylphenol	3968	2036	51	0	33	26-103
Acenaphthene	2646	1695	64	5	19	31-137
4-Nitrophenol	3968	2026	51	4	50	11-114
2,4-Dinitrotoluene	2646	1670	63	2	47	28- 89
Pentachlorophenol	3968	1315	33	0	47	17-109
Pyrene	2646	1946	74	8	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 9 outside limits
Spike Recovery: 0 out of 18 outside limits

COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKFJ

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Lab File ID: WG10146-1A66 Lab Sample ID: WG10146-1

Instrument ID: 5972HP66 Date Extracted: 05/11/01

Matrix: (soil/water) SOIL Date Analyzed: 05/14/01

Level:(low/med) LOW Time Analyzed: 0922

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E00C7	E00C7-1	E00C7-1A66	05/14/01
02	E00C8	E00C7-2	E00C7-2A66	05/14/01
03	E00C9	E00C7-3	E00C7-3A66	05/14/01
04	E00D1	E00C7-4	E00C7-4A66	05/14/01
05	E00D2	E00C7-5	E00C7-5A66	05/14/01
06	E00D3	E00C7-6	E00C7-6A66	05/14/01
07	E00D4	E00C7-7	E00C7-7A66	05/14/01
08	E00D5	E00C7-8	E00C7-8A66	05/14/01
09	E00D6	E00C7-9	E00C7-9A66	05/14/01
10	E00D7	E00C7-10	E00C7-10A66	05/14/01
11	E00E6	E00C7-11	E00C7-11A66	05/14/01
12	E00E7	E00C7-12	E00C7-12A66	05/14/01
13	E00E7MS	WG10146-2	WG10146-2A66	05/14/01
14	E00E7MSD	WG10146-3	WG10146-3A66	05/14/01
15	E00E8	E00C7-13	E00C7-13A66	05/14/01
16	E00E9	E00C7-14	E00C7-14A66	05/14/01
17	E00F0	E00C7-15	E00C7-15A66	05/14/01
18	E00F1	E00C7-16	E00C7-16B66	05/14/01
19	E00F2	E00C7-17	E00C7-17B66	05/14/01
20	E00F3	E00C7-18	E00C7-18B66	05/15/01
21	E00F4	E00C7-19	E00C7-19B66	05/15/01
22	E00F5	E00C7-20	E00C7-20B66	05/15/01
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COMMENTS:

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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C7

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-1A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 27 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	450	U
108-95-2	Phenol	450	U
111-44-4	bis(2-Chloroethyl)ether	450	U
95-57-8	2-Chlorophenol	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2'-oxybis(1-Chloropropane)	450	U
98-86-2	Acetophenone	450	U
106-44-5	4-Methylphenol	450	U
621-64-7	N-Nitroso-di-n-propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
111-91-1	bis(2-Chloroethoxy)methane	450	U
120-83-2	2,4-Dichlorophenol	450	U
91-20-3	Naphthalene	450	U
106-47-8	4-Chloroaniline	450	U
87-68-3	Hexachlorobutadiene	450	U
105-60-2	Caprolactam	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-57-6	2-Methylnaphthalene	450	U
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	450	U
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	450	U
606-20-2	2,6-Dinitrotoluene	450	U
208-96-8	Acenaphthylene	450	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	450	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C7

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-1A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 27 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	450	U
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
86-73-7	Fluorene	450	U
7005-72-3	4-Chlorophenyl-phenylether	450	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
1912-24-9	Atrazine	450	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	450	U
120-12-7	Anthracene	450	U
86-74-8	Carbazole	450	U
84-74-2	Di-n-butylphthalate	450	U
206-44-0	Fluoranthene	450	U
129-00-0	Pyrene	450	U
85-68-7	Butylbenzylphthalate	450	U
91-94-1	3,3'-Dichlorobenzidine	450	U
56-55-3	Benzo(a)anthracene	450	U
218-01-9	Chrysene	450	U
117-81-7	bis(2-Ethylhexyl)phthalate	450	U
117-84-0	Di-n-octylphthalate	450	U
205-99-2	Benzo(b)fluoranthene	450	U
207-08-9	Benzo(k)fluoranthene	450	U
50-32-8	Benzo(a)pyrene	450	U
193-39-5	Indeno(1,2,3-cd)pyrene	450	U
53-70-3	Dibenzo(a,h)anthracene	450	U
191-24-2	Benzo(g,h,i)perylene	450	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00C7

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00C7-1A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 27 Decanted: (Y/N) N Date Extracted:05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.2 Extraction: (Type) SONC

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.33	850	JB
2.				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C8

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-2A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 50 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	660	U
108-95-2	Phenol	660	U
111-44-4	bis(2-Chloroethyl)ether	660	U
95-57-8	2-Chlorophenol	660	U
95-48-7	2-Methylphenol	660	U
108-60-1	2,2'-oxybis(1-Chloropropane)	660	U
98-86-2	Acetophenone	660	U
106-44-5	4-Methylphenol	660	U
621-64-7	N-Nitroso-di-n-propylamine	660	U
67-72-1	Hexachloroethane	660	U
98-95-3	Nitrobenzene	660	U
78-59-1	Isophorone	660	U
88-75-5	2-Nitrophenol	660	U
105-67-9	2,4-Dimethylphenol	660	U
111-91-1	bis(2-Chloroethoxy)methane	660	U
120-83-2	2,4-Dichlorophenol	660	U
91-20-3	Naphthalene	660	U
106-47-8	4-Chloroaniline	660	U
87-68-3	Hexachlorobutadiene	660	U
105-60-2	Caprolactam	660	U
59-50-7	4-Chloro-3-methylphenol	660	U
91-57-6	2-Methylnaphthalene	660	U
77-47-4	Hexachlorocyclopentadiene	660	U
88-06-2	2,4,6-Trichlorophenol	660	U
95-95-4	2,4,5-Trichlorophenol	1700	U
92-52-4	1,1'-Biphenyl	660	U
91-58-7	2-Chloronaphthalene	660	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	660	U
606-20-2	2,6-Dinitrotoluene	660	U
208-96-8	Acenaphthylene	660	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	660	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C8

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-2A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 50 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	660	U
121-14-2	2,4-Dinitrotoluene	660	U
84-66-2	Diethylphthalate	660	U
86-73-7	Fluorene	660	U
7005-72-3	4-Chlorophenyl-phenylether	660	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-nitrosodiphenylamine (1)	660	U
101-55-3	4-Bromophenyl-phenylether	660	U
118-74-1	Hexachlorobenzene	660	U
1912-24-9	Atrazine	660	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	660	U
120-12-7	Anthracene	660	U
86-74-8	Carbazole	660	U
84-74-2	Di-n-butylphthalate	660	U
206-44-0	Fluoranthene	660	U
129-00-0	Pyrene	660	U
85-68-7	Butylbenzylphthalate	660	U
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)anthracene	660	U
218-01-9	Chrysene	660	U
117-81-7	bis(2-Ethylhexyl)phthalate	200	JB
117-84-0	Di-n-octylphthalate	660	U
205-99-2	Benzo(b)fluoranthene	660	U
207-08-9	Benzo(k)fluoranthene	660	U
50-32-8	Benzo(a)pyrene	660	U
193-39-5	Indeno(1,2,3-cd)pyrene	660	U
53-70-3	Dibenzo(a,h)anthracene	660	U
191-24-2	Benzo(g,h,i)perylene	660	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00C8

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00C7-2A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 50 Decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.9 Extraction: (Type) SONC

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.30	870	JB
2.	UNKNOWN	6.99	150	J
3.	UNKNOWN	8.90	210	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C9

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-3A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 39 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	540	U
108-95-2	Phenol	540	U
111-44-4	bis(2-Chloroethyl)ether	540	U
95-57-8	2-Chlorophenol	540	U
95-48-7	2-Methylphenol	540	U
108-60-1	2,2'-oxybis(1-Chloropropane)	540	U
98-86-2	Acetophenone	540	U
106-44-5	4-Methylphenol	540	U
621-64-7	N-Nitroso-di-n-propylamine	540	U
67-72-1	Hexachloroethane	540	U
98-95-3	Nitrobenzene	540	U
78-59-1	Isophorone	540	U
88-75-5	2-Nitrophenol	540	U
105-67-9	2,4-Dimethylphenol	540	U
111-91-1	bis(2-Chloroethoxy)methane	540	U
120-83-2	2,4-Dichlorophenol	540	U
91-20-3	Naphthalene	540	U
106-47-8	4-Chloroaniline	540	U
87-68-3	Hexachlorobutadiene	540	U
105-60-2	Caprolactam	540	U
59-50-7	4-Chloro-3-methylphenol	540	U
91-57-6	2-Methylnaphthalene	540	U
77-47-4	Hexachlorocyclopentadiene	540	U
88-06-2	2,4,6-Trichlorophenol	540	U
95-95-4	2,4,5-Trichlorophenol	1400	U
92-52-4	1,1'-Biphenyl	540	U
91-58-7	2-Chloronaphthalene	540	U
88-74-4	2-Nitroaniline	1400	U
131-11-3	Dimethylphthalate	540	U
606-20-2	2,6-Dinitrotoluene	540	U
208-96-8	Acenaphthylene	540	U
99-09-2	3-Nitroaniline	1400	U
83-32-9	Acenaphthene	540	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C9

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-3A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 39 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400	U
100-02-7	4-Nitrophenol	1400	U
132-64-9	Dibenzofuran	540	U
121-14-2	2,4-Dinitrotoluene	540	U
84-66-2	Diethylphthalate	540	U
86-73-7	Fluorene	540	U
7005-72-3	4-Chlorophenyl-phenylether	540	U
100-01-6	4-Nitroaniline	1400	U
534-52-1	4,6-Dinitro-2-methylphenol	1400	U
86-30-6	N-nitrosodiphenylamine (1)	540	U
101-55-3	4-Bromophenyl-phenylether	540	U
118-74-1	Hexachlorobenzene	540	U
1912-24-9	Atrazine	540	U
87-86-5	Pentachlorophenol	1400	U
85-01-8	Phenanthrene	540	U
120-12-7	Anthracene	540	U
86-74-8	Carbazole	540	U
84-74-2	Di-n-butylphthalate	540	U
206-44-0	Fluoranthene	540	U
129-00-0	Pyrene	540	U
85-68-7	Butylbenzylphthalate	540	U
91-94-1	3,3'-Dichlorobenzidine	540	U
56-55-3	Benzo(a)anthracene	540	U
218-01-9	Chrysene	540	U
117-81-7	bis(2-Ethylhexyl)phthalate	2300	B
117-84-0	Di-n-octylphthalate	540	U
205-99-2	Benzo(b)fluoranthene	540	U
207-08-9	Benzo(k)fluoranthene	540	U
50-32-8	Benzo(a)pyrene	540	U
193-39-5	Indeno(1,2,3-cd)pyrene	540	U
53-70-3	Dibenzo(a,h)anthracene	540	U
191-24-2	Benzo(g,h,i)perylene	540	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00C9

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-3

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00C7-3A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 39 Decanted: (Y/N) N Date Extracted:05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.7 Extraction: (Type) SONC

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.30	720	JB
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00D1

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-4

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-4A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 15 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	390	U
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
98-86-2	Acetophenone	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	980	U
92-52-4	1,1'-Biphenyl	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	980	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	390	U
99-09-2	3-Nitroaniline	980	U
83-32-9	Acenaphthene	390	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00D1

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-4

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-4A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 15 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	980	U
100-02-7	4-Nitrophenol	980	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	980	U
534-52-1	4,6-Dinitro-2-methylphenol	980	U
86-30-6	N-nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	980	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	94	JB
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00D1

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-4

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00C7-4A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 15 Decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Extraction: (Type) SONC

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.32	510	JB
2.	UNKNOWN	7.01	110	J
3.	UNKNOWN	8.87	96	J
4. 475-03-6	NAPHTHALENE, 1,2,3,4-TETRAHY	10.05	83	NJ
5.	UNKNOWN	10.42	120	J
6. 56666-87-6	BENZENE, 1-(2,2-DIMETHYLPROP	10.99	80	NJ
7.	UNKNOWN AMIDE	17.07	88	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00D2

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-5

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-5A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 22 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	420	U
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
98-86-2	Acetophenone	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	420	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00D2

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-5

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-5A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 22 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	150	J
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	240	J
129-00-0	Pyrene	190	J
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	90	J
218-01-9	Chrysene	100	J
117-81-7	bis(2-Ethylhexyl)phthalate	59	JB
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	100	J
207-08-9	Benzo(k)fluoranthene	120	J
50-32-8	Benzo(a)pyrene	120	J
193-39-5	Indeno(1,2,3-cd)pyrene	110	J
53-70-3	Dibenzo(a,h)anthracene	48	J
191-24-2	Benzo(g,h,i)perylene	50	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00D2

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-5

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00C7-5A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 22 Decanted: (Y/N) N Date Extracted:05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Extraction: (Type) SONC

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.30	530	JB
2.	UNKNOWN	24.47	140	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00D3

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-6

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-6A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 50 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	660	U
108-95-2	Phenol	660	U
111-44-4	bis(2-Chloroethyl)ether	660	U
95-57-8	2-Chlorophenol	660	U
95-48-7	2-Methylphenol	660	U
108-60-1	2,2'-oxybis(1-Chloropropane)	660	U
98-86-2	Acetophenone	660	U
106-44-5	4-Methylphenol	660	U
621-64-7	N-Nitroso-di-n-propylamine	660	U
67-72-1	Hexachloroethane	660	U
98-95-3	Nitrobenzene	660	U
78-59-1	Isophorone	660	U
88-75-5	2-Nitrophenol	660	U
105-67-9	2,4-Dimethylphenol	660	U
111-91-1	bis(2-Chloroethoxy)methane	660	U
120-83-2	2,4-Dichlorophenol	660	U
91-20-3	Naphthalene	660	U
106-47-8	4-Chloroaniline	660	U
87-68-3	Hexachlorobutadiene	660	U
105-60-2	Caprolactam	660	U
59-50-7	4-Chloro-3-methylphenol	660	U
91-57-6	2-Methylnaphthalene	660	U
77-47-4	Hexachlorocyclopentadiene	660	U
88-06-2	2,4,6-Trichlorophenol	660	U
95-95-4	2,4,5-Trichlorophenol	1700	U
92-52-4	1,1'-Biphenyl	660	U
91-58-7	2-Chloronaphthalene	660	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	660	U
606-20-2	2,6-Dinitrotoluene	660	U
208-96-8	Acenaphthylene	660	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	660	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00D3

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-6

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-6A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 50 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	660	U
121-14-2	2,4-Dinitrotoluene	660	U
84-66-2	Diethylphthalate	660	U
86-73-7	Fluorene	660	U
7005-72-3	4-Chlorophenyl-phenylether	660	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-nitrosodiphenylamine (1)	660	U
101-55-3	4-Bromophenyl-phenylether	660	U
118-74-1	Hexachlorobenzene	660	U
1912-24-9	Atrazine	660	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	660	U
120-12-7	Anthracene	660	U
86-74-8	Carbazole	660	U
84-74-2	Di-n-butylphthalate	660	U
206-44-0	Fluoranthene	660	U
129-00-0	Pyrene	660	U
85-68-7	Butylbenzylphthalate	660	U
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)anthracene	660	U
218-01-9	Chrysene	660	U
117-81-7	bis(2-Ethylhexyl)phthalate	99	JB
117-84-0	Di-n-octylphthalate	660	U
205-99-2	Benzo(b)fluoranthene	660	U
207-08-9	Benzo(k)fluoranthene	660	U
50-32-8	Benzo(a)pyrene	660	U
193-39-5	Indeno(1,2,3-cd)pyrene	660	U
53-70-3	Dibenzo(a,h)anthracene	660	U
191-24-2	Benzo(g,h,i)perylene	660	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00D3

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-6

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00C7-6A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 50 Decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.5 Extraction: (Type) SONC

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.30	860	JB
2.				
3.				
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FORM I SV-TIC OLM04.2

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00D4

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-7

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-7A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 42 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	570	U
108-95-2	Phenol	570	U
111-44-4	bis(2-Chloroethyl)ether	570	U
95-57-8	2-Chlorophenol	570	U
95-48-7	2-Methylphenol	570	U
108-60-1	2,2'-oxybis(1-Chloropropane)	570	U
98-86-2	Acetophenone	570	U
106-44-5	4-Methylphenol	570	U
621-64-7	N-Nitroso-di-n-propylamine	570	U
67-72-1	Hexachloroethane	570	U
98-95-3	Nitrobenzene	570	U
78-59-1	Isophorone	570	U
88-75-5	2-Nitrophenol	570	U
105-67-9	2,4-Dimethylphenol	570	U
111-91-1	bis(2-Chloroethoxy)methane	570	U
120-83-2	2,4-Dichlorophenol	570	U
91-20-3	Naphthalene	570	U
106-47-8	4-Chloroaniline	570	U
87-68-3	Hexachlorobutadiene	570	U
105-60-2	Caprolactam	570	U
59-50-7	4-Chloro-3-methylphenol	570	U
91-57-6	2-Methylnaphthalene	570	U
77-47-4	Hexachlorocyclopentadiene	570	U
88-06-2	2,4,6-Trichlorophenol	570	U
95-95-4	2,4,5-Trichlorophenol	1400	U
92-52-4	1,1'-Biphenyl	570	U
91-58-7	2-Chloronaphthalene	570	U
88-74-4	2-Nitroaniline	1400	U
131-11-3	Dimethylphthalate	570	U
606-20-2	2,6-Dinitrotoluene	570	U
208-96-8	Acenaphthylene	570	U
99-09-2	3-Nitroaniline	1400	U
83-32-9	Acenaphthene	570	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00D4

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-7

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-7A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 42 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400	U
100-02-7	4-Nitrophenol	1400	U
132-64-9	Dibenzofuran	570	U
121-14-2	2,4-Dinitrotoluene	570	U
84-66-2	Diethylphthalate	570	U
86-73-7	Fluorene	570	U
7005-72-3	4-Chlorophenyl-phenylether	570	U
100-01-6	4-Nitroaniline	1400	U
534-52-1	4,6-Dinitro-2-methylphenol	1400	U
86-30-6	N-nitrosodiphenylamine (1)	570	U
101-55-3	4-Bromophenyl-phenylether	570	U
118-74-1	Hexachlorobenzene	570	U
1912-24-9	Atrazine	570	U
87-86-5	Pentachlorophenol	1400	U
85-01-8	Phenanthrene	570	U
120-12-7	Anthracene	570	U
86-74-8	Carbazole	570	U
84-74-2	Di-n-butylphthalate	570	U
206-44-0	Fluoranthene	570	U
129-00-0	Pyrene	570	U
85-68-7	Butylbenzylphthalate	570	U
91-94-1	3,3'-Dichlorobenzidine	570	U
56-55-3	Benzo(a)anthracene	570	U
218-01-9	Chrysene	570	U
117-81-7	bis(2-Ethylhexyl)phthalate	69	JB
117-84-0	Di-n-octylphthalate	570	U
205-99-2	Benzo(b)fluoranthene	570	U
207-08-9	Benzo(k)fluoranthene	570	U
50-32-8	Benzo(a)pyrene	570	U
193-39-5	Indeno(1,2,3-cd)pyrene	570	U
53-70-3	Dibenzo(a,h)anthracene	570	U
191-24-2	Benzo(g,h,i)perylene	570	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00D4

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-7

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00C7-7A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 42 Decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.4 Extraction: (Type) SONC

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.32	710	JB
2.				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00D5

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-8

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-8A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 46 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	610	U
108-95-2	Phenol	610	U
111-44-4	bis(2-Chloroethyl)ether	610	U
95-57-8	2-Chlorophenol	610	U
95-48-7	2-Methylphenol	610	U
108-60-1	2,2'-oxybis(1-Chloropropane)	610	U
98-86-2	Acetophenone	610	U
106-44-5	4-Methylphenol	610	U
621-64-7	N-Nitroso-di-n-propylamine	610	U
67-72-1	Hexachloroethane	610	U
98-95-3	Nitrobenzene	610	U
78-59-1	Isophorone	610	U
88-75-5	2-Nitrophenol	610	U
105-67-9	2,4-Dimethylphenol	610	U
111-91-1	bis(2-Chloroethoxy)methane	610	U
120-83-2	2,4-Dichlorophenol	610	U
91-20-3	Naphthalene	610	U
106-47-8	4-Chloroaniline	610	U
87-68-3	Hexachlorobutadiene	610	U
105-60-2	Caprolactam	610	U
59-50-7	4-Chloro-3-methylphenol	610	U
91-57-6	2-Methylnaphthalene	610	U
77-47-4	Hexachlorocyclopentadiene	610	U
88-06-2	2,4,6-Trichlorophenol	610	U
95-95-4	2,4,5-Trichlorophenol	1500	U
92-52-4	1,1'-Biphenyl	610	U
91-58-7	2-Chloronaphthalene	610	U
88-74-4	2-Nitroaniline	1500	U
131-11-3	Dimethylphthalate	610	U
606-20-2	2,6-Dinitrotoluene	610	U
208-96-8	Acenaphthylene	610	U
99-09-2	3-Nitroaniline	1500	U
83-32-9	Acenaphthene	610	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00D5

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-8

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-8A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 46 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1500	U
100-02-7	4-Nitrophenol	1500	U
132-64-9	Dibenzofuran	610	U
121-14-2	2,4-Dinitrotoluene	610	U
84-66-2	Diethylphthalate	610	U
86-73-7	Fluorene	610	U
7005-72-3	4-Chlorophenyl-phenylether	610	U
100-01-6	4-Nitroaniline	1500	U
534-52-1	4,6-Dinitro-2-methylphenol	1500	U
86-30-6	N-nitrosodiphenylamine (1)	610	U
101-55-3	4-Bromophenyl-phenylether	610	U
118-74-1	Hexachlorobenzene	610	U
1912-24-9	Atrazine	610	U
87-86-5	Pentachlorophenol	1500	U
85-01-8	Phenanthrene	610	U
120-12-7	Anthracene	610	U
86-74-8	Carbazole	610	U
84-74-2	Di-n-butylphthalate	610	U
206-44-0	Fluoranthene	610	U
129-00-0	Pyrene	610	U
85-68-7	Butylbenzylphthalate	610	U
91-94-1	3,3'-Dichlorobenzidine	610	U
56-55-3	Benzo(a)anthracene	610	U
218-01-9	Chrysene	610	U
117-81-7	bis(2-Ethylhexyl)phthalate	98	JB
117-84-0	Di-n-octylphthalate	610	U
205-99-2	Benzo(b)fluoranthene	610	U
207-08-9	Benzo(k)fluoranthene	610	U
50-32-8	Benzo(a)pyrene	610	U
193-39-5	Indeno(1,2,3-cd)pyrene	610	U
53-70-3	Dibenzo(a,h)anthracene	610	U
191-24-2	Benzo(g,h,i)perylene	610	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00D5

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-8

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00C7-8A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 46 Decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.6 Extraction: (Type) SONC

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.32	710	JB
2.				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00D6

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-9

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-9A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 43 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.1 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	580	U
108-95-2	Phenol	580	U
111-44-4	bis(2-Chloroethyl)ether	580	U
95-57-8	2-Chlorophenol	580	U
95-48-7	2-Methylphenol	580	U
108-60-1	2,2'-oxybis(1-Chloropropane)	580	U
98-86-2	Acetophenone	580	U
106-44-5	4-Methylphenol	580	U
621-64-7	N-Nitroso-di-n-propylamine	580	U
67-72-1	Hexachloroethane	580	U
98-95-3	Nitrobenzene	580	U
78-59-1	Isophorone	580	U
88-75-5	2-Nitrophenol	580	U
105-67-9	2,4-Dimethylphenol	580	U
111-91-1	bis(2-Chloroethoxy)methane	580	U
120-83-2	2,4-Dichlorophenol	580	U
91-20-3	Naphthalene	580	U
106-47-8	4-Chloroaniline	580	U
87-68-3	Hexachlorobutadiene	580	U
105-60-2	Caprolactam	580	U
59-50-7	4-Chloro-3-methylphenol	580	U
91-57-6	2-Methylnaphthalene	580	U
77-47-4	Hexachlorocyclopentadiene	580	U
88-06-2	2,4,6-Trichlorophenol	580	U
95-95-4	2,4,5-Trichlorophenol	1500	U
92-52-4	1,1'-Biphenyl	580	U
91-58-7	2-Chloronaphthalene	580	U
88-74-4	2-Nitroaniline	1500	U
131-11-3	Dimethylphthalate	580	U
606-20-2	2,6-Dinitrotoluene	580	U
208-96-8	Acenaphthylene	580	U
99-09-2	3-Nitroaniline	1500	U
83-32-9	Acenaphthene	580	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00D6

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-9

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-9A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 43 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.1 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1500	U
100-02-7	4-Nitrophenol	1500	U
132-64-9	Dibenzofuran	580	U
121-14-2	2,4-Dinitrotoluene	580	U
84-66-2	Diethylphthalate	580	U
86-73-7	Fluorene	580	U
7005-72-3	4-Chlorophenyl-phenylether	580	U
100-01-6	4-Nitroaniline	1500	U
534-52-1	4,6-Dinitro-2-methylphenol	1500	U
86-30-6	N-nitrosodiphenylamine (1)	580	U
101-55-3	4-Bromophenyl-phenylether	580	U
118-74-1	Hexachlorobenzene	580	U
1912-24-9	Atrazine	580	U
87-86-5	Pentachlorophenol	1500	U
85-01-8	Phenanthrene	580	U
120-12-7	Anthracene	580	U
86-74-8	Carbazole	580	U
84-74-2	Di-n-butylphthalate	580	U
206-44-0	Fluoranthene	580	U
129-00-0	Pyrene	580	U
85-68-7	Butylbenzylphthalate	580	U
91-94-1	3,3'-Dichlorobenzidine	580	U
56-55-3	Benzo(a)anthracene	580	U
218-01-9	Chrysene	580	U
117-81-7	bis(2-Ethylhexyl)phthalate	63	JB
117-84-0	Di-n-octylphthalate	580	U
205-99-2	Benzo(b)fluoranthene	580	U
207-08-9	Benzo(k)fluoranthene	580	U
50-32-8	Benzo(a)pyrene	580	U
193-39-5	Indeno(1,2,3-cd)pyrene	580	U
53-70-3	Dibenzo(a,h)anthracene	580	U
191-24-2	Benzo(g,h,i)perylene	580	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00D6

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-9

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00C7-9A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 43 Decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.1 Extraction: (Type) SONC

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.31	860	JB
2.	UNKNOWN	7.00	120	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00D7

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-10

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-10A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 24 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	430	U
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	430	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	430	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00D7

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-10

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-10A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 24 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	430	U
120-12-7	Anthracene	430	U
86-74-8	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	430	U
129-00-0	Pyrene	430	U
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	430	U
218-01-9	Chrysene	430	U
117-81-7	bis(2-Ethylhexyl)phthalate	58	JB
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	430	U
207-08-9	Benzo(k)fluoranthene	430	U
50-32-8	Benzo(a)pyrene	430	U
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
53-70-3	Dibenzo(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	430	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00D7

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00C7-10A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 24 Decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.0 Extraction: (Type) SONC

Number TICs found: 13

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.32	660	JB
2.	UNKNOWN	7.01	110	J
3.	UNKNOWN	16.74	130	J
4. 638-66-4	OCTADECANAL	19.81	160	NJ
5. 629-80-1	HEXADECANAL	21.58	94	NJ
6.	UNKNOWN	22.28	88	J
7. 10486-19-8	TRIDECANAL	24.15	89	NJ
8.	UNKNOWN	24.49	220	J
9.	UNKNOWN	26.69	250	J
10.	UNKNOWN	27.53	97	J
11.	UNKNOWN	27.99	140	J
12.	UNKNOWN	28.39	500	J
13.	UNKNOWN	28.91	310	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E6

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-11

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-11A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 25 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	440	U
108-95-2	Phenol	440	U
111-44-4	bis(2-Chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440	U
98-86-2	Acetophenone	440	U
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
111-91-1	bis(2-Chloroethoxy)methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
105-60-2	Caprolactam	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	440	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	440	U
606-20-2	2,6-Dinitrotoluene	440	U
208-96-8	Acenaphthylene	440	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	440	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E6

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-11

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-11A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 25 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	440	U
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
86-73-7	Fluorene	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
1912-24-9	Atrazine	440	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	440	U
120-12-7	Anthracene	440	U
86-74-8	Carbazole	440	U
84-74-2	Di-n-butylphthalate	440	U
206-44-0	Fluoranthene	440	U
129-00-0	Pyrene	440	U
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	440	U
218-01-9	Chrysene	440	U
117-81-7	bis(2-Ethylhexyl)phthalate	65	JB
117-84-0	Di-n-octylphthalate	440	U
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	440	U
50-32-8	Benzo(a)pyrene	440	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
53-70-3	Dibenzo(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	440	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00E6

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00C7-11A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 25 Decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.32	670	JB
2.	UNKNOWN	19.79	98	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E7

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-12

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-12A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 37 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	520	U
108-95-2	Phenol	520	U
111-44-4	bis(2-Chloroethyl)ether	520	U
95-57-8	2-Chlorophenol	520	U
95-48-7	2-Methylphenol	520	U
108-60-1	2,2'-oxybis(1-Chloropropane)	520	U
98-86-2	Acetophenone	520	U
106-44-5	4-Methylphenol	520	U
621-64-7	N-Nitroso-di-n-propylamine	520	U
67-72-1	Hexachloroethane	520	U
98-95-3	Nitrobenzene	520	U
78-59-1	Isophorone	520	U
88-75-5	2-Nitrophenol	520	U
105-67-9	2,4-Dimethylphenol	520	U
111-91-1	bis(2-Chloroethoxy)methane	520	U
120-83-2	2,4-Dichlorophenol	520	U
91-20-3	Naphthalene	520	U
106-47-8	4-Chloroaniline	520	U
87-68-3	Hexachlorobutadiene	520	U
105-60-2	Caprolactam	520	U
59-50-7	4-Chloro-3-methylphenol	520	U
91-57-6	2-Methylnaphthalene	520	U
77-47-4	Hexachlorocyclopentadiene	520	U
88-06-2	2,4,6-Trichlorophenol	520	U
95-95-4	2,4,5-Trichlorophenol	1300	U
92-52-4	1,1'-Biphenyl	520	U
91-58-7	2-Chloronaphthalene	520	U
88-74-4	2-Nitroaniline	1300	U
131-11-3	Dimethylphthalate	520	U
606-20-2	2,6-Dinitrotoluene	520	U
208-96-8	Acenaphthylene	520	U
99-09-2	3-Nitroaniline	1300	U
83-32-9	Acenaphthene	520	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E7

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-12

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-12A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 37 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1300	U
100-02-7	4-Nitrophenol	1300	U
132-64-9	Dibenzofuran	520	U
121-14-2	2,4-Dinitrotoluene	520	U
84-66-2	Diethylphthalate	520	U
86-73-7	Fluorene	520	U
7005-72-3	4-Chlorophenyl-phenylether	520	U
100-01-6	4-Nitroaniline	1300	U
534-52-1	4,6-Dinitro-2-methylphenol	1300	U
86-30-6	N-nitrosodiphenylamine (1)	520	U
101-55-3	4-Bromophenyl-phenylether	520	U
118-74-1	Hexachlorobenzene	520	U
1912-24-9	Atrazine	520	U
87-86-5	Pentachlorophenol	1300	U
85-01-8	Phenanthrene	520	U
120-12-7	Anthracene	520	U
86-74-8	Carbazole	520	U
84-74-2	Di-n-butylphthalate	520	U
206-44-0	Fluoranthene	520	U
129-00-0	Pyrene	520	U
85-68-7	Butylbenzylphthalate	520	U
91-94-1	3,3'-Dichlorobenzidine	520	U
56-55-3	Benzo(a)anthracene	520	U
218-01-9	Chrysene	520	U
117-81-7	bis(2-Ethylhexyl)phthalate	520	U
117-84-0	Di-n-octylphthalate	520	U
205-99-2	Benzo(b)fluoranthene	520	U
207-08-9	Benzo(k)fluoranthene	520	U
50-32-8	Benzo(a)pyrene	520	U
193-39-5	Indeno(1,2,3-cd)pyrene	520	U
53-70-3	Dibenzo(a,h)anthracene	520	U
191-24-2	Benzo(g,h,i)perylene	520	U

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E00E7

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00C7-12A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 37 Decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Extraction: (Type) SONC

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.33	1100	JB
2.	UNKNOWN	7.00	110	J
3.	UNKNOWN	12.42	130	J
4.	DIMETHYLBENZENESULFONAMIDE	12.81	120	J
5.	UNKNOWN	28.96	180	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E7MS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: WG10146-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG10146-2A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 37 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	520	U
108-95-2	Phenol	1800	
111-44-4	bis(2-Chloroethyl)ether	520	U
95-57-8	2-Chlorophenol	1800	
95-48-7	2-Methylphenol	520	U
108-60-1	2,2'-oxybis(1-Chloropropane)	520	U
98-86-2	Acetophenone	520	U
106-44-5	4-Methylphenol	520	U
621-64-7	N-Nitroso-di-n-propylamine	1700	
67-72-1	Hexachloroethane	520	U
98-95-3	Nitrobenzene	520	U
78-59-1	Isophorone	520	U
88-75-5	2-Nitrophenol	520	U
105-67-9	2,4-Dimethylphenol	520	U
111-91-1	bis(2-Chloroethoxy)methane	520	U
120-83-2	2,4-Dichlorophenol	520	U
91-20-3	Naphthalene	520	U
106-47-8	4-Chloroaniline	520	U
87-68-3	Hexachlorobutadiene	520	U
105-60-2	Caprolactam	520	U
59-50-7	4-Chloro-3-methylphenol	2000	
91-57-6	2-Methylnaphthalene	520	U
77-47-4	Hexachlorocyclopentadiene	520	U
88-06-2	2,4,6-Trichlorophenol	520	U
95-95-4	2,4,5-Trichlorophenol	1300	U
92-52-4	1,1'-Biphenyl	520	U
91-58-7	2-Chloronaphthalene	520	U
88-74-4	2-Nitroaniline	1300	U
131-11-3	Dimethylphthalate	520	U
606-20-2	2,6-Dinitrotoluene	520	U
208-96-8	Acenaphthylene	520	U
99-09-2	3-Nitroaniline	1300	U
83-32-9	Acenaphthene	1600	

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E7MS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: WG10146-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG10146-2A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 37 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1300	U
100-02-7	4-Nitrophenol	1900	
132-64-9	Dibenzofuran	520	U
121-14-2	2,4-Dinitrotoluene	1700	
84-66-2	Diethylphthalate	520	U
86-73-7	Fluorene	520	U
7005-72-3	4-Chlorophenyl-phenylether	520	U
100-01-6	4-Nitroaniline	1300	U
534-52-1	4,6-Dinitro-2-methylphenol	1300	U
86-30-6	N-nitrosodiphenylamine (1)	520	U
101-55-3	4-Bromophenyl-phenylether	520	U
118-74-1	Hexachlorobenzene	520	U
1912-24-9	Atrazine	520	U
87-86-5	Pentachlorophenol	1300	
85-01-8	Phenanthrene	520	U
120-12-7	Anthracene	520	U
86-74-8	Carbazole	520	U
84-74-2	Di-n-butylphthalate	520	U
206-44-0	Fluoranthene	520	U
129-00-0	Pyrene	1800	
85-68-7	Butylbenzylphthalate	520	U
91-94-1	3,3'-Dichlorobenzidine	520	U
56-55-3	Benzo(a)anthracene	520	U
218-01-9	Chrysene	520	U
117-81-7	bis(2-Ethylhexyl)phthalate	520	U
117-84-0	Di-n-octylphthalate	520	U
205-99-2	Benzo(b)fluoranthene	520	U
207-08-9	Benzo(k)fluoranthene	520	U
50-32-8	Benzo(a)pyrene	520	U
193-39-5	Indeno(1,2,3-cd)pyrene	520	U
53-70-3	Dibenzo(a,h)anthracene	520	U
191-24-2	Benzo(g,h,i)perylene	520	U

(1) - Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E7MSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: WG10146-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG10146-3A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 37 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	520	U
108-95-2	Phenol	1800	
111-44-4	bis(2-Chloroethyl)ether	520	U
95-57-8	2-Chlorophenol	1800	
95-48-7	2-Methylphenol	520	U
108-60-1	2,2'-oxybis(1-Chloropropane)	520	U
98-86-2	Acetophenone	520	U
106-44-5	4-Methylphenol	520	U
621-64-7	N-Nitroso-di-n-propylamine	1800	
67-72-1	Hexachloroethane	520	U
98-95-3	Nitrobenzene	520	U
78-59-1	Isophorone	520	U
88-75-5	2-Nitrophenol	520	U
105-67-9	2,4-Dimethylphenol	520	U
111-91-1	bis(2-Chloroethoxy)methane	520	U
120-83-2	2,4-Dichlorophenol	520	U
91-20-3	Naphthalene	520	U
106-47-8	4-Chloroaniline	520	U
87-68-3	Hexachlorobutadiene	520	U
105-60-2	Caprolactam	520	U
59-50-7	4-Chloro-3-methylphenol	2000	
91-57-6	2-Methylnaphthalene	520	U
77-47-4	Hexachlorocyclopentadiene	520	U
88-06-2	2,4,6-Trichlorophenol	520	U
95-95-4	2,4,5-Trichlorophenol	1300	U
92-52-4	1,1'-Biphenyl	520	U
91-58-7	2-Chloronaphthalene	520	U
88-74-4	2-Nitroaniline	1300	U
131-11-3	Dimethylphthalate	520	U
606-20-2	2,6-Dinitrotoluene	520	U
208-96-8	Acenaphthylene	520	U
99-09-2	3-Nitroaniline	1300	U
83-32-9	Acenaphthene	1700	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E7MSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: WG10146-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG10146-3A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 37 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1300	U
100-02-7	4-Nitrophenol	2000	
132-64-9	Dibenzofuran	520	U
121-14-2	2,4-Dinitrotoluene	1700	
84-66-2	Diethylphthalate	520	U
86-73-7	Fluorene	520	U
7005-72-3	4-Chlorophenyl-phenylether	520	U
100-01-6	4-Nitroaniline	1300	U
534-52-1	4,6-Dinitro-2-methylphenol	1300	U
86-30-6	N-nitrosodiphenylamine (1)	520	U
101-55-3	4-Bromophenyl-phenylether	520	U
118-74-1	Hexachlorobenzene	520	U
1912-24-9	Atrazine	520	U
87-86-5	Pentachlorophenol	1300	J
85-01-8	Phenanthrene	520	U
120-12-7	Anthracene	520	U
86-74-8	Carbazole	520	U
84-74-2	Di-n-butylphthalate	520	U
206-44-0	Fluoranthene	520	U
129-00-0	Pyrene	1900	
85-68-7	Butylbenzylphthalate	520	U
91-94-1	3,3'-Dichlorobenzidine	520	U
56-55-3	Benzo(a)anthracene	520	U
218-01-9	Chrysene	520	U
117-81-7	bis(2-Ethylhexyl)phthalate	63	JB
117-84-0	Di-n-octylphthalate	520	U
205-99-2	Benzo(b)fluoranthene	520	U
207-08-9	Benzo(k)fluoranthene	520	U
50-32-8	Benzo(a)pyrene	520	U
193-39-5	Indeno(1,2,3-cd)pyrene	520	U
53-70-3	Dibenzo(a,h)anthracene	520	U
191-24-2	Benzo(g,h,i)perylene	520	U

(1) - Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E8

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-13

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-13A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 31 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	480	U
108-95-2	Phenol	480	U
111-44-4	bis(2-Chloroethyl)ether	480	U
95-57-8	2-Chlorophenol	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	2,2'-oxybis(1-Chloropropane)	480	U
98-86-2	Acetophenone	480	U
106-44-5	4-Methylphenol	480	U
621-64-7	N-Nitroso-di-n-propylamine	480	U
67-72-1	Hexachloroethane	480	U
98-95-3	Nitrobenzene	480	U
78-59-1	Isophorone	480	U
88-75-5	2-Nitrophenol	480	U
105-67-9	2,4-Dimethylphenol	480	U
111-91-1	bis(2-Chloroethoxy)methane	480	U
120-83-2	2,4-Dichlorophenol	480	U
91-20-3	Naphthalene	480	U
106-47-8	4-Chloroaniline	480	U
87-68-3	Hexachlorobutadiene	480	U
105-60-2	Caprolactam	480	U
59-50-7	4-Chloro-3-methylphenol	480	U
91-57-6	2-Methylnaphthalene	480	U
77-47-4	Hexachlorocyclopentadiene	480	U
88-06-2	2,4,6-Trichlorophenol	480	U
95-95-4	2,4,5-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	480	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	480	U
606-20-2	2,6-Dinitrotoluene	480	U
208-96-8	Acenaphthylene	480	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	480	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E8

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-13

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-13A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 31 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	480	U
121-14-2	2,4-Dinitrotoluene	480	U
84-66-2	Diethylphthalate	480	U
86-73-7	Fluorene	480	U
7005-72-3	4-Chlorophenyl-phenylether	480	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-nitrosodiphenylamine (1)	480	U
101-55-3	4-Bromophenyl-phenylether	480	U
118-74-1	Hexachlorobenzene	480	U
1912-24-9	Atrazine	480	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	480	U
120-12-7	Anthracene	480	U
86-74-8	Carbazole	480	U
84-74-2	Di-n-butylphthalate	480	U
206-44-0	Fluoranthene	480	U
129-00-0	Pyrene	480	U
85-68-7	Butylbenzylphthalate	480	U
91-94-1	3,3'-Dichlorobenzidine	480	U
56-55-3	Benzo(a)anthracene	480	U
218-01-9	Chrysene	480	U
117-81-7	bis(2-Ethylhexyl)phthalate	130	JB
117-84-0	Di-n-octylphthalate	480	U
205-99-2	Benzo(b)fluoranthene	480	U
207-08-9	Benzo(k)fluoranthene	480	U
50-32-8	Benzo(a)pyrene	480	U
193-39-5	Indeno(1,2,3-cd)pyrene	480	U
53-70-3	Dibenzo(a,h)anthracene	480	U
191-24-2	Benzo(g,h,i)perylene	480	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00E8

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00C7-13A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 31 Decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.6 Extraction: (Type) SONC

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.34	1100	JB
2.	UNKNOWN	7.01	130	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E9

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-14

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-14A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 19 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	410	U
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
98-86-2	Acetophenone	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	410	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E9

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-14

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-14A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 19 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	300	J
120-12-7	Anthracene	44	J
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	70	J
206-44-0	Fluoranthene	330	J
129-00-0	Pyrene	260	J
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	140	J
218-01-9	Chrysene	210	J
117-81-7	bis(2-Ethylhexyl)phthalate	98	JB
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	180	J
207-08-9	Benzo(k)fluoranthene	120	J
50-32-8	Benzo(a)pyrene	140	J
193-39-5	Indeno(1,2,3-cd)pyrene	110	J
53-70-3	Dibenzo(a,h)anthracene	66	J
191-24-2	Benzo(g,h,i)perylene	410	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00E9

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00C7-14A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 19 Decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.4 Extraction: (Type) SONC

Number TICs found: 14

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN (BC)	5.33	720	JB
2.		UNKNOWN	7.00	120	J
3.	581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	10.67	120	NJ
4.	2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	11.82	95	NJ
5.	613-12-7	ANTHRACENE, 2-METHYL-	14.54	130	NJ
6.		DIMETHYLPHENANTHRENE	15.14	87	J
7.	3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	15.26	110	NJ
8.		BENZOFLUORENE	16.41	87	J
9.	239-35-0	BENZO[B]NAPHTHO[2,1-D]THIOPH	17.44	130	NJ
10.	3697-24-3	CHRYSENE, 5-METHYL-	18.56	97	NJ
11.	192-97-2	BENZO[E]PYRENE	20.36	130	NJ
12.		UNKNOWN	23.17	190	J
13.		UNKNOWN	24.92	100	J
14.		UNKNOWN	29.48	100	J
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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F0

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-15

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-15A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 15 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	390	U
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
98-86-2	Acetophenone	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	980	U
92-52-4	1,1'-Biphenyl	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	980	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	390	U
99-09-2	3-Nitroaniline	980	U
83-32-9	Acenaphthene	390	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F0

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-15

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-15A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 15 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	980	U
100-02-7	4-Nitrophenol	980	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	980	U
534-52-1	4,6-Dinitro-2-methylphenol	980	U
86-30-6	N-nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	980	U
85-01-8	Phenanthrene	72	J
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	130	J
129-00-0	Pyrene	110	J
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	58	J
218-01-9	Chrysene	75	J
117-81-7	bis(2-Ethylhexyl)phthalate	61	JB
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	76	J
207-08-9	Benzo(k)fluoranthene	79	J
50-32-8	Benzo(a)pyrene	82	J
193-39-5	Indeno(1,2,3-cd)pyrene	72	J
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00F0

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00C7-15A66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 15 Decanted: (Y/N) N Date Extracted:05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Extraction: (Type) SONC

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.33	840	JB
2.	UNKNOWN	7.00	97	J
3. 91-64-5	2H-1-BENZOPYRAN-2-ONE	10.86	840	NJ
4.	UNKNOWN	15.11	82	J
5. 37680-73-2	1,1'-BIPHENYL, 2,2',4,5,5'-P	16.58	110	NJ
6. 35065-28-2	1,1'-BIPHENYL, 2,2',3,4,4',5	17.22	130	NJ
7.	UNKNOWN	19.15	84	J
8. 192-97-2	BENZO[E]PYRENE	20.35	82	NJ
9.	UNKNOWN	23.17	110	J
10.	UNKNOWN	24.50	140	J
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FORM I SV-TIC OLM04.2

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F1

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-16

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-16B66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 20 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	410	U
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
98-86-2	Acetophenone	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	410	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F1

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-16

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-16B66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 20 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00F1

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00C7-16B66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 20 Decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3 Extraction: (Type) SONC

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 26

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.32	560	JB
2.	UNKNOWN	13.95	92	J
3.	UNKNOWN	14.01	85	J
4.	UNKNOWN	15.11	140	J
5.	UNKNOWN	15.84	92	J
6.	METHYLPYRENE	16.41	130	J
7. 301-02-0	9-OCTADECENAMIDE, (Z)-	17.09	120	NJ
8.	UNKNOWN	17.26	160	J
9.	UNKNOWN	17.44	110	J
10.	UNKNOWN	18.00	200	J
11. 86-29-3	BENZENEACETONITRILE, .ALPHA.	18.49	150	NJ
12.	METHYLCHRYSENE	18.56	97	J
13.	UNKNOWN	18.64	120	J
14.	UNKNOWN	18.84	150	J
15.	UNKNOWN	19.18	140	J
16.	UNKNOWN	19.38	190	J
17.	UNKNOWN	19.52	220	J
18.	UNKNOWN	19.67	250	J
19.	UNKNOWN	19.86	210	J
20.	UNKNOWN	19.94	240	J
21.	UNKNOWN	20.45	300	J
22.	UNKNOWN	20.94	170	J
23.	UNKNOWN	21.58	370	J
24.	UNKNOWN	22.05	99	J
25.	UNKNOWN	23.22	280	J
26.	UNKNOWN	23.86	88	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F2

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-17

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-17B66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 24 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	430	U
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	430	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	430	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F2

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-17

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-17B66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 24 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4:2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	430	U
120-12-7	Anthracene	430	U
86-74-8	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	430	U
129-00-0	Pyrene	430	U
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	430	U
218-01-9	Chrysene	430	U
117-81-7	bis(2-Ethylhexyl)phthalate	310	JB
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	430	U
207-08-9	Benzo(k)fluoranthene	430	U
50-32-8	Benzo(a)pyrene	430	U
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
53-70-3	Dibenzo(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	430	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00F2

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00C7-17B66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 24 Decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.2 Extraction: (Type) SONC

Number TICs found: 11

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.34	700	JB
2. 103-82-2	BENZENEACETIC ACID	8.97	140	NJ
3.	UNKNOWN	15.11	120	J
4.	UNKNOWN	17.26	110	J
5.	UNKNOWN	17.73	140	J
6.	UNKNOWN	19.79	96	J
7.	UNKNOWN	22.29	150	J
8.	UNKNOWN	24.49	140	J
9.	UNKNOWN	25.65	95	J
10.	UNKNOWN	26.68	160	J
11.	UNKNOWN	28.02	140	J
12.				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F3

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-18

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-18B66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 22 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/15/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	420	U
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
98-86-2	Acetophenone	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	420	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F3

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-18

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-18B66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 22 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/15/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	46	J
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	45	J
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	44	J
117-81-7	bis(2-Ethylhexyl)phthalate	470	B
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00F3

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00C7-18B66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 22 Decanted: (Y/N) N Date Extracted:05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/15/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

Number TICs found: 27

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.34	730	JB
2.	UNKNOWN PHTHALATE	18.29	1100	J
3.	UNKNOWN PHTHALATE	18.36	1500	J
4.	UNKNOWN	18.56	910	J
5.	UNKNOWN PHTHALATE	18.70	1500	J
6.	UNKNOWN	18.85	710	J
7.	UNKNOWN	19.07	730	J
8.	UNKNOWN	19.42	1200	J
9.	UNKNOWN	19.69	1200	J
10.	UNKNOWN	19.96	1800	J
11.	UNKNOWN	20.05	1700	J
12. 55123-81-4	5.ALPHA.,8.ALPHA.,14.BETA.-C	20.27	1100	NJ
13.	UNKNOWN	20.45	900	J
14.	UNKNOWN	20.59	980	J
15.	UNKNOWN	20.82	1200	J
16.	UNKNOWN	20.94	2000	J
17.	UNKNOWN	21.45	1700	J
18.	UNKNOWN	21.62	2000	J
19.	UNKNOWN	21.84	820	J
20.	UNKNOWN	22.09	1600	J
21. 36728-72-0	28-NOR-17.BETA.(H)-HOPANE	22.26	2400	NJ
22.	UNKNOWN	23.26	1700	J
23.	UNKNOWN	24.66	710	J
24.	UNKNOWN	24.84	600	J
25.	UNKNOWN	25.96	820	J
26.	UNKNOWN	26.28	520	J
27.	UNKNOWN	27.78	590	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F4

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-19

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-19B66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 34 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/15/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	500	U
108-95-2	Phenol	500	U
111-44-4	bis(2-Chloroethyl)ether	500	U
95-57-8	2-Chlorophenol	500	U
95-48-7	2-Methylphenol	500	U
108-60-1	2,2'-oxybis(1-Chloropropane)	500	U
98-86-2	Acetophenone	500	U
106-44-5	4-Methylphenol	500	U
621-64-7	N-Nitroso-di-n-propylamine	500	U
67-72-1	Hexachloroethane	500	U
98-95-3	Nitrobenzene	500	U
78-59-1	Isophorone	500	U
88-75-5	2-Nitrophenol	500	U
105-67-9	2,4-Dimethylphenol	500	U
111-91-1	bis(2-Chloroethoxy)methane	500	U
120-83-2	2,4-Dichlorophenol	500	U
91-20-3	Naphthalene	160	J
106-47-8	4-Chloroaniline	500	U
87-68-3	Hexachlorobutadiene	500	U
105-60-2	Caprolactam	500	U
59-50-7	4-Chloro-3-methylphenol	500	U
91-57-6	2-Methylnaphthalene	490	J
77-47-4	Hexachlorocyclopentadiene	500	U
88-06-2	2,4,6-Trichlorophenol	500	U
95-95-4	2,4,5-Trichlorophenol	1300	U
92-52-4	1,1'-Biphenyl	79	J
91-58-7	2-Chloronaphthalene	500	U
88-74-4	2-Nitroaniline	1300	U
131-11-3	Dimethylphthalate	500	U
606-20-2	2,6-Dinitrotoluene	500	U
208-96-8	Acenaphthylene	500	U
99-09-2	3-Nitroaniline	1300	U
83-32-9	Acenaphthene	440	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F4

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-19

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-19B66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 34 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/15/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1300	U
100-02-7	4-Nitrophenol	1300	U
132-64-9	Dibenzofuran	600	
121-14-2	2,4-Dinitrotoluene	500	U
84-66-2	Diethylphthalate	500	U
86-73-7	Fluorene	1500	
7005-72-3	4-Chlorophenyl-phenylether	500	U
100-01-6	4-Nitroaniline	1300	U
534-52-1	4,6-Dinitro-2-methylphenol	1300	U
86-30-6	N-nitrosodiphenylamine (1)	500	U
101-55-3	4-Bromophenyl-phenylether	500	U
118-74-1	Hexachlorobenzene	500	U
1912-24-9	Atrazine	500	U
87-86-5	Pentachlorophenol	1300	U
85-01-8	Phenanthrene	320	J
120-12-7	Anthracene	180	J
86-74-8	Carbazole	85	J
84-74-2	Di-n-butylphthalate	500	U
206-44-0	Fluoranthene	71	J
129-00-0	Pyrene	150	J
85-68-7	Butylbenzylphthalate	500	U
91-94-1	3,3'-Dichlorobenzidine	500	U
56-55-3	Benzo(a)anthracene	500	U
218-01-9	Chrysene	53	J
117-81-7	bis(2-Ethylhexyl)phthalate	83	JB
117-84-0	Di-n-octylphthalate	500	U
205-99-2	Benzo(b)fluoranthene	500	U
207-08-9	Benzo(k)fluoranthene	500	U
50-32-8	Benzo(a)pyrene	500	U
193-39-5	Indeno(1,2,3-cd)pyrene	500	U
53-70-3	Dibenzo(a,h)anthracene	500	U
191-24-2	Benzo(g,h,i)perylene	500	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM04.2

1G

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

E00F4

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-19

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00C7-19B66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 34 Decanted: (Y/N) N Date Extracted:05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/15/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.7 Extraction: (Type) SONC

Number TICs found: 24

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	10.45	2100	J
2.	UNKNOWN	10.79	3700	J
3.	UNKNOWN	11.12	2400	J
4.	UNKNOWN	11.17	2200	J
5. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	11.90	2200	NJ
6.	UNKNOWN	12.73	3700	J
7.	UNKNOWN	12.85	2100	J
8. 642-71-7	PHENOL, 3,4,5-TRIMETHOXY-	12.88	4100	NJ
9.	METHYLFLUORENE	13.08	3400	J
10.	UNKNOWN	13.15	6600	J
11.	UNKNOWN	13.22	4300	J
12.	UNKNOWN	13.34	5900	J
13.	UNKNOWN	13.47	9500	J
14.	UNKNOWN	13.88	3200	J
15.	UNKNOWN	14.06	3700	J
16.	UNKNOWN	14.30	6400	J
17.	UNKNOWN	14.47	5200	J
18.	UNKNOWN	14.67	4700	J
19. 3674-69-9	PHENANTHRENE, 4,5-DIMETHYL-	15.02	3600	NJ
20. 3674-69-9	PHENANTHRENE, 4,5-DIMETHYL-	15.14	3200	NJ
21.	UNKNOWN	18.40	5300	J
22.	UNKNOWN	18.89	4000	J
23.	UNKNOWN	18.94	5100	J
24.	UNKNOWN	19.91	4100	J
25.				
26.				
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FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F5

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-20

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-20B66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 25 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/15/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.1 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	440	U
108-95-2	Phenol	440	U
111-44-4	bis(2-Chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440	U
98-86-2	Acetophenone	440	U
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
111-91-1	bis(2-Chloroethoxy)methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
105-60-2	Caprolactam	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	440	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	440	U
606-20-2	2,6-Dinitrotoluene	440	U
208-96-8	Acenaphthylene	440	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	440	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F5

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-20

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00C7-20B66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 25 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/15/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.1 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	440	U
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
86-73-7	Fluorene	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
1912-24-9	Atrazine	440	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	440	U
120-12-7	Anthracene	440	U
86-74-8	Carbazole	440	U
84-74-2	Di-n-butylphthalate	440	U
206-44-0	Fluoranthene	440	U
129-00-0	Pyrene	440	U
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	440	U
218-01-9	Chrysene	440	U
117-81-7	bis(2-Ethylhexyl)phthalate	110	JB
117-84-0	Di-n-octylphthalate	440	U
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	440	U
50-32-8	Benzo(a)pyrene	440	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
53-70-3	Dibenzo(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	440	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00F5

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-20

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00C7-20B66

Level: (low/med) LOW Date Received: 05/10/01

% Moisture: 25 Decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/15/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.1 Extraction: (Type) SONC

Number TICs found: 10

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.34	630	JB
2. 103-82-2	BENZENEACETIC ACID	8.99	94	NJ
3.	UNKNOWN	15.13	91	J
4.	UNKNOWN	17.75	140	J
5.	UNKNOWN	19.27	190	J
6.	UNKNOWN	21.23	180	J
7.	UNKNOWN	24.52	130	J
8.	UNKNOWN	25.71	160	J
9.	UNKNOWN	27.58	98	J
10.	UNKNOWN	28.09	150	J
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FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKFJ

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: WG10146-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG10146-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: - Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
98-86-2	Acetophenone	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
92-52-4	1,1'-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKFJ

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: WG10146-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG10146-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: - Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	55	J
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKFJ

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: WG10146-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: WG10146-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:05/11/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 05/14/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Extraction: (Type) SONC

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.32	590	J
2.				
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FORM I SV-TIC OLM04.2

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

GC Column(1): CLPEST ID: 0.53(mm) GC Column(2): CLPEST2 ID:0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKFK	100	92	100	100			0
02	E00E7MS	67	62	62	67			0
03	E00E7MSD	62	52	44	48			0
04	E00C7	72	78	61	67			0
05	E00C8	74	70	70	85			0
06	E00C9	82	77	64	86			0
07	E00D1	69	69	69	75			0
08	E00D2	88	76	71	82			0
09	E00D3	74	74	59	63			0
10	E00D4	65	70	65	70			0
11	E00D5	80	80	72	76			0
12	E00D6	74	83	74	78			0
13	E00D7	78	78	78	89			0
14	E00E6	100	106	83	94			0
15	E00E7	76	71	62	71			0
16	E00E8	74	79	68	79			0
17	E00E9	69	75	81	131			0
18	E00F0	69	63	81	94			0
19	E00F1	65	76	54	65			0
20	E00F2	83	83	61	78			0
21	E00F3	65	71	171*	112			1
22	E00F4	65	65	95	50			0
23	E00F5	56	56	29*	67			1
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix Spike - EPA Sample No.: E00E7

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	26	0.0	17	65	46-127
Heptachlor	26	0.0	16	62	35-130
Aldrin	26	0.0	13	50	34-132
Dieldrin	53	0.0	35	66	31-134
Endrin	53	0.0	41	77	42-139
4,4'-DDT	53	0.0	38	72	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	26	7.8	30*	74*	50	46-127
Heptachlor	26	8.1	31*	67*	31	35-130
Aldrin	26	8.9	34	38	43	34-132
Dieldrin	53	25	47	34	38	31-134
Endrin	53	33	62	22	45	42-139
4,4'-DDT	53	30	57	23	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 2 out of 6 outside limits
Spike Recovery: 2 out of 12 outside limits

COMMENTS: _____

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKFK

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Lab Sample ID: WG10147-1 Lab File ID: _____

Matrix (soil/water) SOIL Extraction:(Type) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 05/11/01

Date Analyzed (1): 05/16/01 Date Analyzed (2): 05/16/01

Time Analyzed (1): 2332 Time Analyzed (2): 2332

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC83

GC Column (1): CLPEST ID: 0.53(mm) GC Column (2): CLPEST2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	E00E7MS	WG10147-2	05/16/01	05/16/01
02	E00E7MSD	WG10147-3	05/17/01	05/17/01
03	E00C7	E00C7-1	05/17/01	05/17/01
04	E00C8	E00C7-2	05/17/01	05/17/01
05	E00C9	E00C7-3	05/17/01	05/17/01
06	E00D1	E00C7-4	05/17/01	05/17/01
07	E00D2	E00C7-5	05/17/01	05/17/01
08	E00D3	E00C7-6	05/17/01	05/17/01
09	E00D4	E00C7-7	05/17/01	05/17/01
10	E00D5	E00C7-8	05/17/01	05/17/01
11	E00D6	E00C7-9	05/17/01	05/17/01
12	E00D7	E00C7-10	05/17/01	05/17/01
13	E00E6	E00C7-11	05/17/01	05/17/01
14	E00E7	E00C7-12	05/17/01	05/17/01
15	E00E8	E00C7-13	05/17/01	05/17/01
16	E00E9	E00C7-14	05/17/01	05/17/01
17	E00F0	E00C7-15	05/17/01	05/17/01
18	E00F1	E00C7-16	05/17/01	05/17/01
19	E00F2	E00C7-17	05/17/01	05/17/01
20	E00F3	E00C7-18	05/17/01	05/17/01
21	E00F4	E00C7-19	05/17/01	05/17/01
22	E00F5	E00C7-20	05/17/01	05/17/01
23				
24				
25				
26				

COMMENTS: _____

FORM IV PEST OLM04.2

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C7

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 27 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	0.84	J
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.5	U
72-55-9	4,4'-DDE	4.5	U
72-20-8	Endrin	4.5	U
33213-65-9	Endosulfan II	4.5	U
72-54-8	4,4'-DDD	4.5	U
1031-07-8	Endosulfan sulfate	4.5	U
50-29-3	4,4'-DDT	4.5	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.5	U
7421-93-4	Endrin aldehyde	4.5	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	45	U
11104-28-2	Aroclor-1221	92	U
11141-16-5	Aroclor-1232	45	U
53469-21-9	Aroclor-1242	45	U
12672-29-6	Aroclor-1248	45	U
11097-69-1	Aroclor-1254	45	U
11096-82-5	Aroclor-1260	45	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C8

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 50 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.4	U
319-85-7	beta-BHC	3.4	U
319-86-8	delta-BHC	3.4	U
58-89-9	gamma-BHC (Lindane)	3.4	U
76-44-8	Heptachlor	3.4	U
309-00-2	Aldrin	3.4	U
1024-57-3	Heptachlor epoxide	3.4	U
959-98-8	Endosulfan I	3.4	U
60-57-1	Dieldrin	6.6	U
72-55-9	4,4'-DDE	6.6	U
72-20-8	Endrin	6.6	U
33213-65-9	Endosulfan II	6.6	U
72-54-8	4,4'-DDD	6.6	U
1031-07-8	Endosulfan sulfate	6.6	U
50-29-3	4,4'-DDT	6.6	U
72-43-5	Methoxychlor	34	U
53494-70-5	Endrin ketone	6.6	U
7421-93-4	Endrin aldehyde	6.6	U
5103-71-9	alpha-Chlordane	3.4	U
5103-74-2	gamma-Chlordane	3.4	U
8001-35-2	Toxaphene	340	U
12674-11-2	Aroclor-1016	66	U
11104-28-2	Aroclor-1221	130	U
11141-16-5	Aroclor-1232	66	U
53469-21-9	Aroclor-1242	66	U
12672-29-6	Aroclor-1248	66	U
11097-69-1	Aroclor-1254	66	U
11096-82-5	Aroclor-1260	66	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00C9

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 39 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.8	U
319-85-7	beta-BHC	2.8	U
319-86-8	delta-BHC	2.8	U
58-89-9	gamma-BHC (Lindane)	2.8	U
76-44-8	Heptachlor	2.8	U
309-00-2	Aldrin	2.8	U
1024-57-3	Heptachlor epoxide	2.8	U
959-98-8	Endosulfan I	2.8	U
60-57-1	Dieldrin	5.4	U
72-55-9	4,4'-DDE	5.4	U
72-20-8	Endrin	5.4	U
33213-65-9	Endosulfan II	5.4	U
72-54-8	4,4'-DDD	5.4	U
1031-07-8	Endosulfan sulfate	5.4	U
50-29-3	4,4'-DDT	5.4	U
72-43-5	Methoxychlor	28	U
53494-70-5	Endrin ketone	5.4	U
7421-93-4	Endrin aldehyde	5.4	U
5103-71-9	alpha-Chlordane	2.8	U
5103-74-2	gamma-Chlordane	2.8	U
8001-35-2	Toxaphene	280	U
12674-11-2	Aroclor-1016	54	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	54	U
53469-21-9	Aroclor-1242	54	U
12672-29-6	Aroclor-1248	54	U
11097-69-1	Aroclor-1254	54	U
11096-82-5	Aroclor-1260	54	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00D1

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-4

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	0.95	JP
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	79	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00D2

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-5

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	1.1	JP
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	86	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00D3

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-6

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 50 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.4	U
319-85-7	beta-BHC	3.4	U
319-86-8	delta-BHC	3.4	U
58-89-9	gamma-BHC (Lindane)	3.4	U
76-44-8	Heptachlor	3.4	U
309-00-2	Aldrin	3.4	U
1024-57-3	Heptachlor epoxide	3.4	U
959-98-8	Endosulfan I	3.4	U
60-57-1	Dieldrin	6.6	U
72-55-9	4,4'-DDE	6.6	U
72-20-8	Endrin	6.6	U
33213-65-9	Endosulfan II	6.6	U
72-54-8	4,4'-DDD	6.6	U
1031-07-8	Endosulfan sulfate	6.6	U
50-29-3	4,4'-DDT	6.6	U
72-43-5	Methoxychlor	34	U
53494-70-5	Endrin ketone	6.6	U
7421-93-4	Endrin aldehyde	6.6	U
5103-71-9	alpha-Chlordane	3.4	U
5103-74-2	gamma-Chlordane	3.4	U
8001-35-2	Toxaphene	340	U
12674-11-2	Aroclor-1016	66	U
11104-28-2	Aroclor-1221	130	U
11141-16-5	Aroclor-1232	66	U
53469-21-9	Aroclor-1242	66	U
12672-29-6	Aroclor-1248	66	U
11097-69-1	Aroclor-1254	66	U
11096-82-5	Aroclor-1260	66	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00D4

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-7

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 42 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.9	U
319-85-7	beta-BHC	2.9	U
319-86-8	delta-BHC	2.9	U
58-89-9	gamma-BHC (Lindane)	2.9	U
76-44-8	Heptachlor	2.9	U
309-00-2	Aldrin	2.9	U
1024-57-3	Heptachlor epoxide	2.9	U
959-98-8	Endosulfan I	2.9	U
60-57-1	Dieldrin	5.7	U
72-55-9	4,4'-DDE	5.7	U
72-20-8	Endrin	5.7	U
33213-65-9	Endosulfan II	5.7	U
72-54-8	4,4'-DDD	5.7	U
1031-07-8	Endosulfan sulfate	5.7	U
50-29-3	4,4'-DDT	5.7	U
72-43-5	Methoxychlor	29	U
53494-70-5	Endrin ketone	5.7	U
7421-93-4	Endrin aldehyde	5.7	U
5103-71-9	alpha-Chlordane	2.9	U
5103-74-2	gamma-Chlordane	2.9	U
8001-35-2	Toxaphene	290	U
12674-11-2	Aroclor-1016	57	U
11104-28-2	Aroclor-1221	120	U
11141-16-5	Aroclor-1232	57	U
53469-21-9	Aroclor-1242	57	U
12672-29-6	Aroclor-1248	57	U
11097-69-1	Aroclor-1254	57	U
11096-82-5	Aroclor-1260	57	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00D5

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-8

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 46 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.1	U
319-85-7	beta-BHC	3.1	U
319-86-8	delta-BHC	3.1	U
58-89-9	gamma-BHC (Lindane)	3.1	U
76-44-8	Heptachlor	3.1	U
309-00-2	Aldrin	3.1	U
1024-57-3	Heptachlor epoxide	3.1	U
959-98-8	Endosulfan I	3.1	U
60-57-1	Dieldrin	6.1	U
72-55-9	4,4'-DDE	6.1	U
72-20-8	Endrin	6.1	U
33213-65-9	Endosulfan II	6.1	U
72-54-8	4,4'-DDD	6.1	U
1031-07-8	Endosulfan sulfate	6.1	U
50-29-3	4,4'-DDT	6.1	U
72-43-5	Methoxychlor	31	U
53494-70-5	Endrin ketone	6.1	U
7421-93-4	Endrin aldehyde	6.1	U
5103-71-9	alpha-Chlordane	3.1	U
5103-74-2	gamma-Chlordane	3.1	U
8001-35-2	Toxaphene	310	U
12674-11-2	Aroclor-1016	61	U
11104-28-2	Aroclor-1221	120	U
11141-16-5	Aroclor-1232	61	U
53469-21-9	Aroclor-1242	61	U
12672-29-6	Aroclor-1248	61	U
11097-69-1	Aroclor-1254	61	U
11096-82-5	Aroclor-1260	61	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00D6

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-9

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 43 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.0	U
319-85-7	beta-BHC	2.1	J
319-86-8	delta-BHC	3.0	U
58-89-9	gamma-BHC (Lindane)	3.0	U
76-44-8	Heptachlor	3.0	U
309-00-2	Aldrin	3.0	U
1024-57-3	Heptachlor epoxide	3.0	U
959-98-8	Endosulfan I	3.0	U
60-57-1	Dieldrin	5.8	U
72-55-9	4,4'-DDE	5.8	U
72-20-8	Endrin	5.8	U
33213-65-9	Endosulfan II	5.8	U
72-54-8	4,4'-DDD	5.8	U
1031-07-8	Endosulfan sulfate	5.8	U
50-29-3	4,4'-DDT	5.8	U
72-43-5	Methoxychlor	30	U
53494-70-5	Endrin ketone	5.8	U
7421-93-4	Endrin aldehyde	5.8	U
5103-71-9	alpha-Chlordane	3.0	U
5103-74-2	gamma-Chlordane	3.0	U
8001-35-2	Toxaphene	300	U
12674-11-2	Aroclor-1016	58	U
11104-28-2	Aroclor-1221	120	U
11141-16-5	Aroclor-1232	58	U
53469-21-9	Aroclor-1242	58	U
12672-29-6	Aroclor-1248	58	U
11097-69-1	Aroclor-1254	58	U
11096-82-5	Aroclor-1260	58	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00D7

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-10

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	3.6	J
72-55-9	4,4'-DDE	4.3	U
72-20-8	Endrin	4.3	U
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	4.3	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.3	U
7421-93-4	Endrin aldehyde	4.3	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	88	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	43	U
11096-82-5	Aroclor-1260	43	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E6

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-11

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 25 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.5	J
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.4	U
72-55-9	4,4'-DDE	4.4	U
72-20-8	Endrin	4.4	U
33213-65-9	Endosulfan II	4.4	U
72-54-8	4,4'-DDD	4.4	U
1031-07-8	Endosulfan sulfate	4.4	U
50-29-3	4,4'-DDT	4.4	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.4	U
7421-93-4	Endrin aldehyde	4.4	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	44	U
11104-28-2	Aroclor-1221	89	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	17	JP
11096-82-5	Aroclor-1260	44	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E7

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-12

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 37 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.7	U
319-85-7	beta-BHC	2.7	U
319-86-8	delta-BHC	2.7	U
58-89-9	gamma-BHC (Lindane)	2.7	U
76-44-8	Heptachlor	2.7	U
309-00-2	Aldrin	2.7	U
1024-57-3	Heptachlor epoxide	2.5	JP
959-98-8	Endosulfan I	2.7	U
60-57-1	Dieldrin	5.2	U
72-55-9	4,4'-DDE	5.2	U
72-20-8	Endrin	5.2	U
33213-65-9	Endosulfan II	5.2	U
72-54-8	4,4'-DDD	5.2	U
1031-07-8	Endosulfan sulfate	5.2	U
50-29-3	4,4'-DDT	5.2	U
72-43-5	Methoxychlor	27	U
53494-70-5	Endrin ketone	5.2	U
7421-93-4	Endrin aldehyde	5.2	U
5103-71-9	alpha-Chlordane	2.7	U
5103-74-2	gamma-Chlordane	2.7	U
8001-35-2	Toxaphene	270	U
12674-11-2	Aroclor-1016	52	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	52	U
53469-21-9	Aroclor-1242	52	U
12672-29-6	Aroclor-1248	52	U
11097-69-1	Aroclor-1254	52	U
11096-82-5	Aroclor-1260	52	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E7MS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: WG10147-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 37 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/16/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.7	U
319-85-7	beta-BHC	2.2	J
319-86-8	delta-BHC	2.7	U
58-89-9	gamma-BHC (Lindane)	17	
76-44-8	Heptachlor	16	
309-00-2	Aldrin	13	
1024-57-3	Heptachlor epoxide	2.7	U
959-98-8	Endosulfan I	2.7	U
60-57-1	Dieldrin	35	
72-55-9	4,4'-DDE	5.2	U
72-20-8	Endrin	41	
33213-65-9	Endosulfan II	5.2	U
72-54-8	4,4'-DDD	5.2	U
1031-07-8	Endosulfan sulfate	5.2	U
50-29-3	4,4'-DDT	38	
72-43-5	Methoxychlor	27	U
53494-70-5	Endrin ketone	3.1	J
7421-93-4	Endrin aldehyde	5.2	U
5103-71-9	alpha-Chlordane	2.7	U
5103-74-2	gamma-Chlordane	2.7	U
8001-35-2	Toxaphene	270	U
12674-11-2	Aroclor-1016	52	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	52	U
53469-21-9	Aroclor-1242	52	U
12672-29-6	Aroclor-1248	52	U
11097-69-1	Aroclor-1254	52	U
11096-82-5	Aroclor-1260	52	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E7MSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: WG10147-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 37 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.7	U
319-85-7	beta-BHC	1.1	JP
319-86-8	delta-BHC	2.7	U
58-89-9	gamma-BHC (Lindane)	7.8	P
76-44-8	Heptachlor	8.1	P
309-00-2	Aldrin	8.9	P
1024-57-3	Heptachlor epoxide	2.5	JP
959-98-8	Endosulfan I	2.7	U
60-57-1	Dieldrin	25	
72-55-9	4,4'-DDE	5.2	U
72-20-8	Endrin	33	
33213-65-9	Endosulfan II	5.2	U
72-54-8	4,4'-DDD	5.2	U
1031-07-8	Endosulfan sulfate	5.2	U
50-29-3	4,4'-DDT	30	
72-43-5	Methoxychlor	27	U
53494-70-5	Endrin ketone	5.2	U
7421-93-4	Endrin aldehyde	5.2	U
5103-71-9	alpha-Chlordane	9.2	
5103-74-2	gamma-Chlordane	2.7	U
8001-35-2	Toxaphene	270	U
12674-11-2	Aroclor-1016	52	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	52	U
53469-21-9	Aroclor-1242	52	U
12672-29-6	Aroclor-1248	52	U
11097-69-1	Aroclor-1254	52	U
11096-82-5	Aroclor-1260	52	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E8

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-13

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 31 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.5	U
319-85-7	beta-BHC	2.5	U
319-86-8	delta-BHC	2.5	U
58-89-9	gamma-BHC (Lindane)	2.5	U
76-44-8	Heptachlor	2.5	U
309-00-2	Aldrin	2.5	U
1024-57-3	Heptachlor epoxide	2.5	U
959-98-8	Endosulfan I	2.5	U
60-57-1	Dieldrin	4.8	U
72-55-9	4,4'-DDE	4.8	U
72-20-8	Endrin	4.8	U
33213-65-9	Endosulfan II	4.8	U
72-54-8	4,4'-DDD	4.8	U
1031-07-8	Endosulfan sulfate	4.8	U
50-29-3	4,4'-DDT	4.8	U
72-43-5	Methoxychlor	25	U
53494-70-5	Endrin ketone	4.8	U
7421-93-4	Endrin aldehyde	4.8	U
5103-71-9	alpha-Chlordane	2.5	U
5103-74-2	gamma-Chlordane	2.5	U
8001-35-2	Toxaphene	250	U
12674-11-2	Aroclor-1016	48	U
11104-28-2	Aroclor-1221	97	U
11141-16-5	Aroclor-1232	48	U
53469-21-9	Aroclor-1242	48	U
12672-29-6	Aroclor-1248	48	U
11097-69-1	Aroclor-1254	48	U
11096-82-5	Aroclor-1260	48	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00E9

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-14

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	0.89	J
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	1.5	JP
72-20-8	Endrin	3.4	JP
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	7.5	P
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	2.2	JP
7421-93-4	Endrin aldehyde	0.76	JP
5103-71-9	alpha-Chlordane	0.78	J
5103-74-2	gamma-Chlordane	0.99	JP
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	83	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F0

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-15

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	0.96	JP
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	9.4	P
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	16	
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	13	P
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	79	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	960	C
11096-82-5	Aroclor-1260	39	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F1

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-16

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.6	P
7421-93-4	Endrin aldehyde	3.5	J
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	84	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	84	P
11096-82-5	Aroclor-1260	41	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F2

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-17

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.3	U
72-55-9	4,4'-DDE	4.3	U
72-20-8	Endrin	4.3	U
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	4.3	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.3	U
7421-93-4	Endrin aldehyde	4.3	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	88	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	10	JP
11096-82-5	Aroclor-1260	43	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F3

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-18

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	1.1	JP
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	86	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F4

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-19

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 34 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.6	U
319-85-7	beta-BHC	2.6	U
319-86-8	delta-BHC	2.6	U
58-89-9	gamma-BHC (Lindane)	2.6	U
76-44-8	Heptachlor	2.6	U
309-00-2	Aldrin	2.6	U
1024-57-3	Heptachlor epoxide	2.6	U
959-98-8	Endosulfan I	2.6	U
60-57-1	Dieldrin	5.0	U
72-55-9	4,4'-DDE	5.0	U
72-20-8	Endrin	5.0	U
33213-65-9	Endosulfan II	5.0	U
72-54-8	4,4'-DDD	5.0	U
1031-07-8	Endosulfan sulfate	5.0	U
50-29-3	4,4'-DDT	27	
72-43-5	Methoxychlor	26	U
53494-70-5	Endrin ketone	3.2	JP
7421-93-4	Endrin aldehyde	4.1	JP
5103-71-9	alpha-Chlordane	2.6	U
5103-74-2	gamma-Chlordane	2.6	U
8001-35-2	Toxaphene	260	U
12674-11-2	Aroclor-1016	50	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	50	U
53469-21-9	Aroclor-1242	50	U
12672-29-6	Aroclor-1248	50	U
11097-69-1	Aroclor-1254	50	U
11096-82-5	Aroclor-1260	50	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F5

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: E00C7-20

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 25 Decanted: (Y/N) N Date Received: 05/10/01

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.4	U
72-55-9	4,4'-DDE	4.4	U
72-20-8	Endrin	4.4	U
33213-65-9	Endosulfan II	4.4	U
72-54-8	4,4'-DDD	4.4	U
1031-07-8	Endosulfan sulfate	4.4	U
50-29-3	4,4'-DDT	4.4	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.4	U
7421-93-4	Endrin aldehyde	4.4	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	44	U
11104-28-2	Aroclor-1221	89	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	44	U
11096-82-5	Aroclor-1260	44	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKFK

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 29241 SAS No.: SDG No.: E00C7

Matrix: (soil/water) SOIL Lab Sample ID: WG10147-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 05/11/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/16/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: 200C7 CERCLIS No: IL000675264

Case No: 29241 Site Name/Location: AMERICAN CYANAMIDE

Contractor or EPA Lab: CompuChem Data User: IEPA

No. of Samples: 20 Date Sampled or Date Received: 5-29-01

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 20 No. of samples received: 20

Received by: Eva M. Dixon / ESAT Date: 5-29-01

Received by LSSS: Eva M. Dixon / ESAT Date: 5-29-01

Review started: ____ Reviewer Signature: ____

Total time spent on review: ____ Date review completed: ____

Copied by: Eva M. Dixon / ESAT Date: 5-31-01

Mailed to user by: Eva M. Dixon / ESAT Date: 5-31-01

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____