Method Detection Limit (MDL) Summary
Method: 8270C

Matrix: SOIL

Effective Date: 10/14/2002 to 10/14/2003

Instrument ID: P.i

Column ID: RTX-5

Compound	Rep 1	Rep2	Rep3	Rep4	Rep5	Rep6	Rep7	Mean Value	True Value	Percent Recovery	Std. Dev.	MDL ug/Kg	RL ug/Kg	X*
N-Nitrosodimethylamine	184.60000	196.80000	188.80000	202.40000	212.1000	202.9000	199.9000	198	333.0	59	9.2296	29.0	330.00000	11.5
Aniline	114.10000	109.90000	102.90000	115.30000	117.3000	108.1000	97.26000	109	666.0	16	7.1967	22.6	830.00000	29.5
Phenol	260.50000	252.00000	262.90000	282.60000	269.8000	282.5000	254.8000	266	333.0	80	12.3974	39.0	330.00000	8.5
bis(2-Chloroethyl)Ether	237.60000	229.50000	237.60000	244.40000	243.5000	246.8000	231.3000	239	333.0	72	6.6201	20.8	330.00000	16.0
2-Chlorophenol	256.60000	256.70000	253.40000	274.60000	270.2000	272.8000	255.0000	263	333.0	79	9.2991	29.2	330.00000	11.4
1,3-Dichlorobenzene	195.90000	202.10000	201.70000	212.70000	223.7000	217.6000	206.3000	209	333.0	63	9.8510	31.0	330.00000	10.7
1,4-Dichlorobenzene	205.60000	207.20000	213.90000	216.30000	221.5000	222.3000	209.2000	214	333.0	64	6.7046	21.1	330.00000	15.8
Benzyl Alcohol	282.80000	267.60000	301.60000	309.30000	283.0000	289.0000	263.8000	285	333.0	86	16.5452	52.0	330.00000	6.4
1,2-Dichlorobenzene	203.40000	209.00000	212.90000	220.60000	231.7000	225.6000	211.4000	216	333.0	65	9.9781	31.4	330.00000	10.6
2-Methylphenol	269.10000	266.10000	258.40000	279.30000	265.8000	277.8000	245.2000	266	333.0	80	11.6632	36.7	330.00000	9.1
2,2'-oxybis(1-Chloropropane)	252.60000	250.70000	249.00000	258.20000	253.5000	256.4000	245.6000	252	333.0	76	4.3106	13.5	330.00000	24.7
4-Methylphenol	503.00000	485.00000	480.70000	530.70000	506.5000	529.1000	460.9000	499	666.0	75	25.7049	80.8	330.00000	8.2
N-Nitroso-di-n-propylamine	270.80000	252.30000	265.80000	280.10000	277.0000	276.5000	252.8000	268	333.0	80	11.4732	36.1	330.00000	9.2
Hexachloroethane	221.40000	222.20000	224.60000	232.70000	243.6000	240.2000	223.6000	230	333.0	69	9.1360	28.7	330.00000	11.6
Nitrobenzene	241.40000	234.00000	235.10000	246.70000	254.9000	250.8000	229.4000	242	333.0	73	9.4539	29.7	330.00000	11.2
2-Chlorobenzaldehyde	218.10000	228.00000	207.30000	230.00000	232.2000	230.2000	220.4000	224	333.0	67	8.9803	28.2	330.00000	11.8
Isophorone	241.60000	237.20000	222.80000	256.00000	245.0000	241.8000	232.9000	240	333.0	72	10.3267	32.5	330.00000	10.2
3-Chlorobenzaldehyde	249.00000	246.90000	240.80000	265.30000	242.7000	271.0000	249.0000	252	333.0	76	11.5019	36.2	330.00000	9.2
4-Chlorobenzaldehyde	218.60000	220.40000	210.50000	225.50000	213.5000	231.2000	215.6000	219	333.0	66	7.1474	22.5	330.00000	14.8
2-Nitrophenol	239.50000	252.90000	241.80000	267.20000	241.5000	246.6000	227.7000	245	333.0	74	12.3095	38.7	330.00000	8.6
2,4-Dimethylphenol	272.00000	270.20000	261.20000	274.60000	266.4000	266.1000	226.4000	262	333.0	79	16.4771	51.8	330.00000	6.4
bis(2-Chloroethoxy)methane	260.30000	267.10000	259.50000	279.90000	271.2000	266.2000	253.5000	265	333.0	80	8.6588	27.2	330.00000	12.2

*X = True Value/MDL

Cleanup Method(s): 3640 Gel-Permeation Cleanup Prepared By: Paul A. Daigle

Preparation Method: ~~SONE~~ 3550B
Preparation Factor: 30.0 g concentrated to 500 uL
Prep Date: 10/09/2002

Comments: MDL for 8270 and MMR added compounds in soil including 2-Chlorobenzoic Acid

Analyzed By: Donald J. Bissonette Analysis Date: 10/14/2002
Reviewed By: Cindy M. Peterson Review Date: 10/15/2002

QA Approval: KMcCracken 10/28/02

Method Detection Limit (MDL) Summary
Method: 8270C

Matrix: SOIL
Effective Date: 10/14/2002 to 10/14/2003

Instrument ID: P.i
Column ID: RTX-5

Compound	Rep 1	Rep2	Rep3	Rep4	Rep5	Rep6	Rep7	Mean Value	True Value	Percent Recovery	Std. Dev.	MDL ug/Kg	RL ug/Kg	X*
Benzoic Acid	315.10000	273.80000	363.10000	293.80000	364.2000	373.3000	308.8000	327	666.0	49	39.2316	123	830.00000	5.4
2,4-Dichlorophenol	251.40000	252.30000	250.30000	274.20000	259.9000	273.9000	250.2000	259	333.0	78	10.8747	34.2	330.00000	9.7
1,2,4-Trichlorobenzene	230.10000	228.90000	227.50000	245.30000	245.1000	239.2000	230.1000	235	333.0	71	7.8211	24.6	330.00000	13.5
Naphthalene	226.90000	225.60000	216.20000	242.80000	236.2000	239.1000	224.0000	230	333.0	69	9.4904	29.8	330.00000	11.2
4-Chloroaniline	166.30000	137.20000	135.40000	159.60000	178.4000	156.7000	109.6000	149	666.0	22	23.1367	72.7	330.00000	9.2
Hexachlorobutadiene	225.90000	227.20000	222.40000	241.00000	236.4000	231.3000	232.3000	231	333.0	69	6.3942	20.1	330.00000	16.6
4-Chloro-3-methylphenol	287.00000	277.60000	282.60000	309.30000	304.2000	305.0000	258.1000	289	333.0	87	18.3883	57.8	330.00000	5.8
2-Methylnaphthalene	252.10000	246.60000	246.70000	271.30000	260.3000	258.2000	247.4000	255	333.0	77	9.2088	28.9	330.00000	11.5
Hexachlorocyclopentadiene	372.00000	358.60000	361.20000	387.20000	360.3000	372.1000	354.5000	367	666.0	55	11.2769	35.4	330.00000	18.8
2,4,6-Trichlorophenol	513.90000	491.60000	510.50000	576.70000	534.7000	538.4000	494.7000	523	666.0	79	29.6749	93.3	330.00000	7.1
2,4,5-Trichlorophenol	543.00000	508.10000	550.30000	605.90000	557.7000	580.9000	526.1000	553	666.0	83	32.7762	103	830.00000	6.5
2-Chlorobenzoic Acid	262.70000	259.60000	436.90000	247.90000	250.9000	454.2000	321.3000	319	1665	19	89.9774	283	2000.00000	5.9
2-Chloronaphthalene	191.90000	180.10000	182.00000	205.40000	196.7000	195.3000	188.0000	191	333.0	57	8.8236	27.7	330.00000	12.0
2-Nitroaniline	530.60000	486.90000	531.00000	588.50000	546.3000	558.9000	467.0000	530	666.0	80	41.5352	131	830.00000	5.1
Dimethylphthalate	266.30000	244.80000	246.90000	284.40000	260.8000	261.3000	248.8000	259	333.0	78	13.8988	43.7	330.00000	7.6
Acenaphthylene	241.00000	229.70000	236.30000	248.80000	239.9000	244.0000	233.2000	239	333.0	72	6.4970	20.4	330.00000	16.3
2,6-Dinitrotoluene	261.40000	243.70000	257.10000	288.20000	264.9000	271.8000	251.4000	263	333.0	79	14.4892	45.5	330.00000	7.3
3-Nitroaniline	220.60000	188.00000	223.70000	244.00000	248.1000	237.0000	173.5000	219	666.0	33	28.4347	89.4	830.00000	7.4
Acenaphthene	234.20000	221.50000	229.40000	254.80000	234.4000	236.1000	234.2000	235	333.0	71	10.0704	31.7	330.00000	10.5
2,4-Dinitrophenol	185.20000	168.10000	242.80000	229.40000	210.7000	240.2000	176.9000	208	666.0	31	31.0675	97.6	830.00000	6.8
Dibenzofuran	253.70000	237.20000	243.30000	272.00000	250.9000	257.0000	243.7000	251	333.0	75	11.4545	36.0	330.00000	9.3
4-Nitrophenol	392.40000	332.90000	407.60000	461.40000	446.4000	464.8000	254.0000	394	666.0	59	77.2675	243	830.00000	2.7

*X = True Value/MDL

Cleanup Method(s): 3640 Gel-Permeation Cleanup Prepared By: Paul A. Daigle

Preparation Method: ~~SONC~~ 3550B
Preparation Factor: 30.0 g concentrated to 500 uL
Prep Date: 10/09/2002

Comments: MDL for 8270 and MMR added compounds in soil including 2-Chlorobenzoic Acid

Analyzed By: Donald J. Bissonette Analysis Date: 10/14/2002
Reviewed By: Cindy M. Peterson Review Date: 10/15/2002

Method Detection Limit (MDL) Summary
Method: 8270C

Matrix: SOIL
Effective Date: 10/14/2002 to 10/14/2003

Instrument ID: P.i
Column ID: RTX-5

Compound	Rep 1	Rep2	Rep3	Rep4	Rep5	Rep6	Rep7	Mean Value	True Value	Percent Recovery	Std. Dev.	MDL ug/Kg	RL ug/Kg	X*
2-Methyl-3-Nitroaniline	114.90000	86.36000	108.00000	104.10000	106.4000	119.4000	87.99000	104	333.0	31	12.5507	39.4	330.00000	8.5
2,4-Dinitrotoluene	254.60000	231.80000	255.00000	287.60000	260.7000	273.5000	234.7000	257	333.0	77	19.8503	62.4	330.00000	5.3
Di-n-propyl Adipate	258.00000	241.70000	240.70000	265.10000	244.6000	269.0000	241.4000	252	333.0	76	12.2186	38.4	330.00000	8.7
Fluorene	238.00000	219.60000	237.90000	260.60000	240.2000	245.6000	229.1000	239	333.0	72	12.8294	40.3	330.00000	8.3
Diethylphthalate	242.30000	222.60000	237.10000	266.10000	245.7000	244.5000	228.7000	241	333.0	72	13.9708	43.9	330.00000	7.6
4-Chlorophenyl-phenylether	254.80000	238.30000	249.10000	280.80000	254.6000	264.4000	241.0000	255	333.0	77	14.5105	45.6	330.00000	7.3
2-Methyl-5-Nitroaniline	202.10000	185.80000	215.50000	244.20000	221.9000	248.1000	179.1000	214	333.0	64	26.7523	84.1	330.00000	4.0
4-Nitroaniline	425.70000	365.00000	456.10000	525.40000	489.6000	502.6000	315.0000	440	666.0	66	76.7960	241	830.00000	2.8
4,6-Dinitro-2-methylphenol	415.40000	376.00000	445.40000	481.20000	445.1000	467.6000	403.0000	433	666.0	65	37.1445	117	830.00000	5.7
N-nitrosodiphenylamine	240.80000	226.00000	224.00000	245.90000	223.5000	230.6000	231.8000	232	333.0	70	8.6083	27.1	330.00000	12.3
4-Bromophenyl-phenylether	265.70000	258.70000	241.10000	265.00000	254.5000	253.2000	262.2000	257	333.0	77	8.5911	27.0	330.00000	12.3
Hexachlorobenzene	273.90000	260.80000	255.50000	268.60000	252.7000	259.6000	271.8000	263	333.0	79	8.2243	25.8	330.00000	12.9
Pentachlorophenol	148.20000	122.70000	130.50000	143.30000	118.2000	137.7000	113.5000	131	666.0	20	13.1025	41.2	830.00000	16.2
Phenanthrene	256.40000	241.50000	244.10000	265.00000	258.1000	255.5000	248.5000	253	333.0	76	8.3568	26.3	330.00000	12.7
Anthracene	264.60000	248.70000	248.80000	270.70000	263.0000	264.0000	252.7000	259	333.0	78	8.7468	27.5	330.00000	12.1
Carbazole	257.90000	242.70000	264.10000	293.90000	267.5000	285.9000	219.9000	262	333.0	79	25.1149	78.9	330.00000	4.2
1,3-Diethyl-1,3-Diphenyl Urea	272.00000	255.50000	250.20000	259.90000	251.6000	272.6000	266.0000	261	333.0	78	9.2820	29.2	330.00000	11.4
Di-n-butylphthalate	288.50000	274.30000	273.00000	296.10000	282.8000	281.5000	285.9000	283	333.0	85	8.0424	25.3	330.00000	13.2
3,5-Dinitroaniline	240.60000	199.60000	247.70000	296.70000	282.1000	305.7000	118.0000	241	333.0	72	65.6559	206	330.00000	1.6
2-Nitrodiphenylamine	261.00000	231.80000	256.70000	269.40000	263.0000	287.0000	228.3000	257	333.0	77	20.6725	65.0	330.00000	5.1
Fluoranthene	287.60000	259.70000	288.30000	314.60000	294.8000	309.8000	254.0000	287	333.0	86	23.0173	72.3	330.00000	4.6
Pyrene	273.70000	272.10000	260.50000	278.40000	257.7000	264.6000	328.0000	276	333.0	83	23.9237	75.2	330.00000	4.4

*X = True Value/MDL

Cleanup Method(s): 3640 Gel-Permeation Cleanup Prepared By: Paul A. Daigle

Preparation Method: ~~SONC~~ 3550B
Preparation Factor: 30.0 g concentrated to 500 uL
Prep Date: 10/09/2002

Comments: MDL for 8270 and MMR added compounds in soil including 2-Chlorobenzoic Acid

Analyzed By: Donald J. Bissonette Analysis Date: 10/14/2002
Reviewed By: Cindy M. Peterson Review Date: 10/15/2002

Method Detection Limit (MDL) Summary
Method: 8270C

Matrix: SOIL
Effective Date: 10/14/2002 to 10/14/2003

Instrument ID: P.i
Column ID: RTX-5

Compound	Rep 1	Rep2	Rep3	Rep4	Rep5	Rep6	Rep7	Mean Value	True Value	Percent Recovery	Std. Dev.	MDL ug/Kg	RL ug/Kg	X*
Butylbenzylphthalate	278.70000	273.20000	275.30000	284.20000	267.7000	273.5000	325.0000	283	333.0	85	19.4163	61.0	330.00000	5.5
Benzo(a)anthracene	271.60000	251.00000	262.30000	281.80000	264.7000	269.7000	259.6000	266	333.0	80	9.7962	30.8	330.00000	10.8
3,3'-Dichlorobenzidine	507.80000	404.00000	426.00000	469.40000	487.7000	466.5000	341.1000	443	666.0	67	57.2125	180	330.00000	3.7
Chrysene	283.50000	273.70000	273.80000	293.10000	281.8000	268.3000	274.9000	278	333.0	83	8.2781	26.0	330.00000	12.8
bis(2-Ethylhexyl)phthalate	284.10000	275.70000	273.20000	284.70000	262.8000	272.7000	350.4000	286	333.0	86	29.2613	92.0	330.00000	3.6
Di-n-octylphthalate	314.90000	299.90000	301.50000	326.80000	293.2000	304.2000	325.2000	309	333.0	93	13.0690	41.1	330.00000	8.1
Benzo(b)fluoranthene	264.00000	235.80000	268.00000	290.20000	250.5000	261.3000	246.4000	259	333.0	78	17.5714	55.2	330.00000	6.0
Benzo(k)fluoranthene	274.40000	291.80000	270.60000	297.50000	286.2000	281.4000	304.1000	287	333.0	86	12.1390	38.2	330.00000	8.7
Benzo(a)pyrene	260.60000	247.40000	261.10000	283.70000	263.2000	268.3000	259.9000	263	333.0	79	10.9354	34.4	330.00000	9.7
Indeno(1,2,3-cd)pyrene	253.60000	225.20000	250.00000	272.60000	269.6000	267.8000	223.4000	252	333.0	76	20.5185	64.5	330.00000	5.2
Dibenz(a,h)anthracene	235.40000	211.70000	236.40000	268.80000	246.4000	245.1000	208.0000	236	333.0	71	20.9834	66.0	330.00000	5.0
Benzo(g,h,i)perylene	254.80000	242.90000	249.60000	284.40000	274.0000	261.8000	248.8000	259	333.0	78	14.9761	47.1	330.00000	7.1

*X = True Value/MDL

Cleanup Method(s): 3640 Gel-Permeation Cleanup Prepared By: Paul A. Daigle

Preparation Method: ~~SONC~~ 3550B
Preparation Factor: 30.0 g concentrated to 500 uL
Prep Date: 10/09/2002

Comments: MDL for 8270 and MMR added compounds in soil including 2-Chlorobenzoic Acid

Analyzed By: Donald J. Bissonette Analysis Date: 10/14/2002
Reviewed By: Cindy M. Peterson Review Date: 10/15/2002