APPENDIX E

Analytical Method Reporting Limits

Del Mar Analytical, Irvine

7/27/2005

Analytical Method Information

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike / LCS %R	Blank Spike / LCS RPD
/8260B/5035 (Low RL)-EN in Soil (EPA 8260B)								
Preservation: 4 C, Cool								
Container: Encore		**Amount Required:** 5 grams			**Hold Time:** 7 days			
Benzene	0.50	1.0 ug/kg			65 - 130	20	65 - 120	20
Bromobenzene	0.84	2.0 ug/kg			70 - 135	25	70 - 120	20
Bromochloromethane	0.71	2.0 ug/kg			65 - 140	25	65 - 130	20
Bromodichloromethane	0.42	1.0 ug/kg			65 - 140	20	65 - 135	20
Bromoform	0.80	2.0 ug/kg			50 - 140	30	50 - 135	25
Bromomethane	0.92	2.0 ug/kg			55 - 150	25	60 - 145	20
n-Butylbenzene	0.72	2.0 ug/kg			55 - 140	30	70 - 125	20
sec-Butylbenzene	0.67	2.0 ug/kg			65 - 130	25	70 - 125	20
tert-Butylbenzene	0.62	2.0 ug/kg			65 - 135	25	70 - 125	20
Carbon tetrachloride	0.66	2.0 ug/kg			65 - 140	25	65 - 140	20
Chlorobenzene	0.52	1.0 ug/kg			70 - 125	25	70 - 125	20
Chloroethane	1.5	2.0 ug/kg			55 - 145	25	55 - 140	25
Chloroform	0.40	1.0 ug/kg			65 - 130	20	65 - 130	20
Chloromethane	1.4	2.0 ug/kg			35 - 140	25	40 - 140	25
2-Chlorotoluene	0.87	2.0 ug/kg			65 - 130	25	70 - 125	20
4-Chlorotoluene	0.74	2.0 ug/kg			70 - 130	25	70 - 125	20
Dibromochloromethane	0.56	1.0 ug/kg			65 - 140	25	65 - 140	20
1,2-Dibromo-3-chloropropane	1.5	5.0 ug/kg			45 - 145	30	45 - 140	30
1,2-Dibromoethane (EDB)	0.66	1.0 ug/kg			65 - 135	25	70 - 130	20
Dibromomethane	0.62	1.0 ug/kg			65 - 135	25	65 - 130	20
1,2-Dichlorobenzene	0.95	1.0 ug/kg			70 - 130	25	70 - 120	20
1,3-Dichlorobenzene	0.84	1.0 ug/kg			70 - 125	25	70 - 125	20
1,4-Dichlorobenzene	0.94	1.0 ug/kg			70 - 125	25	70 - 125	20
Dichlorodifluoromethane	0.82	2.0 ug/kg			25 - 155	35	25 - 155	30
1,1-Dichloroethane	0.37	1.0 ug/kg			65 - 130	25	65 - 130	20
1,2-Dichloroethane	0.80	1.0 ug/kg			60 - 145	25	60 - 140	20
1,1-Dichloroethene	0.45	1.0 ug/kg			65 - 135	25	70 - 130	20
cis-1,2-Dichloroethene	0.83	1.0 ug/kg			65 - 130	25	65 - 125	20
trans-1,2-Dichloroethene	0.41	1.0 ug/kg			65 - 135	25	65 - 130	20
1,2-Dichloropropane	0.35	1.0 ug/kg			65 - 125	20	65 - 125	20
1,3-Dichloropropane	0.63	1.0 ug/kg			65 - 135	25	65 - 125	20
2,2-Dichloropropane	0.45	1.0 ug/kg			60 - 145	25	60 - 145	20
1,1-Dichloropropene	0.33	1.0 ug/kg			65 - 135	20	70 - 130	20
cis-1,3-Dichloropropene	0.44	1.0 ug/kg			70 - 130	25	70 - 130	20
trans-1,3-Dichloropropene	0.61	1.0 ug/kg			65 - 140	25	65 - 135	20
Ethylbenzene	0.51	1.0 ug/kg			70 - 130	25	70 - 125	20
Hexachlorobutadiene	0.73	2.0 ug/kg			55 - 140	35	60 - 135	20
Isopropylbenzene	0.54	1.0 ug/kg			65 - 140	25	70 - 125	20
p-Isopropyltoluene	0.72	1.0 ug/kg			60 - 135	25	70 - 125	20
Methylene chloride	6.5	10 ug/kg			60 - 140	25	60 - 130	20
Naphthalene	1.1	2.0 ug/kg			40 - 155	40	50 - 140	25
n-Propylbenzene	0.61	1.0 ug/kg			65 - 140	25	70 - 125	20
Styrene	0.58	1.0 ug/kg			70 - 140	25	70 - 130	20
1,1,1,2-Tetrachloroethane	0.57	2.0 ug/kg			70 - 140	20	70 - 135	20
1,1,2,2-Tetrachloroethane	0.86	2.0 ug/kg			45 - 155	30	55 - 140	30
Tetrachloroethene	0.49	1.0 ug/kg			65 - 135	25	65 - 125	20

Del Mar Analytical, Irvine

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Analytical Method Information

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike / LCS %R	Blank Spike / LCS RPD
Toluene	0.91	1.0 ug/kg			70 - 125	20	70 - 125	20
1,2,3-Trichlorobenzene	1.0	2.0 ug/kg			50 - 140	30	60 - 130	20
1,2,4-Trichlorobenzene	1.0	2.0 ug/kg			55 - 135	30	65 - 135	20
1,1,1-Trichloroethane	0.39	1.0 ug/kg			65 - 140	20	65 - 135	20
1,1,2-Trichloroethane	0.87	1.0 ug/kg			65 - 135	30	65 - 130	20
Trichloroethene	0.34	1.0 ug/kg			70 - 135	25	70 - 125	20
Trichlorofluoromethane	0.54	2.0 ug/kg			50 - 150	25	60 - 140	25
1,2,3-Trichloropropane	1.7	2.0 ug/kg			55 - 145	30	55 - 135	25
1,2,4-Trimethylbenzene	0.78	1.0 ug/kg			65 - 135	25	70 - 125	20
1,3,5-Trimethylbenzene	0.63	1.0 ug/kg			70 - 130	25	70 - 125	20
Vinyl chloride	0.91	2.0 ug/kg			50 - 135	30	50 - 130	25
o-Xylene	0.47	1.0 ug/kg			70 - 125	25	70 - 125	20
m,p-Xylenes	0.75	2.0 ug/kg			70 - 125	25	70 - 125	20
surr: Dibromofluoromethane			80 - 125					
surr: Toluene-d8			80 - 120					
surr: 4-Bromofluorobenzene			80 - 120					

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Analytical Method Information

8260B/5030B(Default) in Water (EPA 8260B)

Preservation: 4 C, HCL

Container: 40 ml Voa Vial — **Amount Required:** 3 VOA — **Hold Time:** 14 days

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike / LCS %R	Blank Spike / LCS RPD
Benzene	0.28	2.0 ug/l			60 - 125	20	65 - 120	20
Bromobenzene	0.27	5.0 ug/l			65 - 125	20	70 - 120	20
Bromochloromethane	0.32	5.0 ug/l			60 - 135	25	65 - 130	20
Bromodichloromethane	0.30	2.0 ug/l			65 - 135	20	65 - 135	20
Bromoform	0.32	5.0 ug/l			50 - 135	25	50 - 130	25
Bromomethane	0.42	5.0 ug/l			50 - 145	25	60 - 140	20
n-Butylbenzene	0.37	5.0 ug/l			65 - 135	20	70 - 125	20
sec-Butylbenzene	0.25	5.0 ug/l			65 - 125	20	70 - 125	20
tert-Butylbenzene	0.22	5.0 ug/l			65 - 130	20	70 - 125	20
Carbon tetrachloride	0.28	5.0 ug/l			65 - 140	25	65 - 140	25
Chlorobenzene	0.36	2.0 ug/l			70 - 125	20	70 - 125	20
Chloroethane	0.33	5.0 ug/l			50 - 140	25	55 - 140	20
Chloroform	0.33	2.0 ug/l			65 - 135	20	65 - 130	20
Chloromethane	0.30	5.0 ug/l			35 - 140	25	40 - 140	25
2-Chlorotoluene	0.28	5.0 ug/l			65 - 135	20	70 - 125	20
4-Chlorotoluene	0.29	5.0 ug/l			65 - 135	20	70 - 125	20
Dibromochloromethane	0.28	2.0 ug/l			60 - 140	25	65 - 140	20
1,2-Dibromo-3-chloropropane	0.92	5.0 ug/l			40 - 150	30	45 - 135	30
1,2-Dibromoethane (EDB)	0.32	2.0 ug/l			65 - 130	25	70 - 125	20
Dibromomethane	0.36	2.0 ug/l			60 - 135	25	65 - 130	20
,2-Dichlorobenzene	0.32	2.0 ug/l			70 - 125	20	70 - 120	20
1,3-Dichlorobenzene	0.35	2.0 ug/l			70 - 125	20	70 - 125	20
1,4-Dichlorobenzene	0.37	2.0 ug/l			70 - 125	20	70 - 125	20
Dichlorodifluoromethane	0.79	5.0 ug/l			15 - 155	30	25 - 155	30
1,1-Dichloroethane	0.27	2.0 ug/l			60 - 130	20	65 - 130	20
1,2-Dichloroethane	0.28	2.0 ug/l			60 - 140	20	60 - 140	20
1,1-Dichloroethene	0.42	5.0 ug/l			60 - 135	20	70 - 130	20
cis-1,2-Dichloroethene	0.32	2.0 ug/l			60 - 130	20	65 - 125	20
trans-1,2-Dichloroethene	0.27	2.0 ug/l			60 - 135	20	65 - 130	20
1,2-Dichloropropane	0.35	2.0 ug/l			60 - 125	20	65 - 125	20
1,3-Dichloropropane	0.32	2.0 ug/l			60 - 135	25	65 - 125	20
2,2-Dichloropropane	0.34	2.0 ug/l			60 - 145	25	60 - 145	25
1,1-Dichloropropene	0.28	2.0 ug/l			65 - 135	20	70 - 130	20
cis-1,3-Dichloropropene	0.22	2.0 ug/l			65 - 135	20	70 - 130	65
trans-1,3-Dichloropropene	0.32	2.0 ug/l			65 - 140	25	65 - 130	20
Ethylbenzene	0.25	2.0 ug/l			65 - 130	20	70 - 125	20
Hexachlorobutadiene	0.38	5.0 ug/l			60 - 135	20	60 - 135	20
Isopropylbenzene	0.25	2.0 ug/l			65 - 130	20	70 - 125	20
p-Isopropyltoluene	0.28	2.0 ug/l			65 - 125	20	70 - 125	20
Methylene chloride	0.51	5.0 ug/l			55 - 130	20	60 - 130	20
Naphthalene	0.41	5.0 ug/l			45 - 145	30	50 - 140	25
n-Propylbenzene	0.27	2.0 ug/l			65 - 130	20	70 - 125	20
Styrene	0.16	2.0 ug/l			45 - 145	30	70 - 130	20
1,1,1,2-Tetrachloroethane	0.27	5.0 ug/l			65 - 140	20	70 - 135	20
,2,2-Tetrachloroethane	0.24	2.0 ug/l			55 - 140	30	55 - 130	25
Tetrachloroethene	0.32	2.0 ug/l			60 - 130	20	65 - 125	20

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Analytical Method Information

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike / LCS %R	Blank Spike / LCS RPD
Toluene	0.36	2.0 ug/l			65 - 125	20	70 - 125	20
1,2,3-Trichlorobenzene	0.45	5.0 ug/l			55 - 135	20	60 - 130	20
1,2,4-Trichlorobenzene	0.48	5.0 ug/l			60 - 135	20	65 - 135	20
1,1,1-Trichloroethane	0.30	2.0 ug/l			65 - 140	20	65 - 135	20
1,1,2-Trichloroethane	0.30	2.0 ug/l			60 - 130	25	65 - 125	20
Trichloroethene	0.26	2.0 ug/l			60 - 125	20	70 - 125	20
Trichlorofluoromethane	0.34	5.0 ug/l			55 - 145	25	60 - 140	20
1,2,3-Trichloropropane	0.85	10 ug/l			50 - 135	30	55 - 130	20
1,2,4-Trimethylbenzene	0.23	2.0 ug/l			55 - 130	25	70 - 125	20
1,3,5-Trimethylbenzene	0.26	2.0 ug/l			65 - 130	20	70 - 125	20
Vinyl chloride	0.26	5.0 ug/l			40 - 135	30	50 - 130	30
o-Xylene	0.24	2.0 ug/l			60 - 125	20	70 - 125	20
m,p-Xylenes	0.52	2.0 ug/l			60 - 130	25	70 - 125	20
surr: Dibromofluoromethane			80 - 120					
surr: Toluene-d8			80 - 120					
surr: 4-Bromofluorobenzene			80 - 120					

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Analytical Method Information

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike / LCS %R	Blank Spike / LCS RPD
8270C/3545+NDMA+Hyd in Soil (EPA 8270C)								
Preservation: 4 C, Cool								
Container: 4 oz Jar		**Amount Required:** 100 grams			**Hold Time:** 14 days			
Acenaphthene	200	330 ug/kg			45 - 120	25	50 - 120	20
Acenaphthylene	220	330 ug/kg			45 - 120	20	50 - 120	20
Aniline	160	420 ug/kg			25 - 110	30	25 - 110	20
Anthracene	170	330 ug/kg			55 - 120	25	55 - 120	20
Benzidine	370	660 ug/kg			10 - 120	30	10 - 120	30
Benzoic acid	170	830 ug/kg			15 - 120	30	20 - 120	30
Benzo(a)anthracene	150	330 ug/kg			50 - 120	25	60 - 120	20
Benzo(b)fluoranthene	180	330 ug/kg			55 - 120	30	55 - 120	25
Benzo(k)fluoranthene	180	330 ug/kg			50 - 120	30	50 - 120	25
Benzo(g,h,i)perylene	290	330 ug/kg			30 - 120	30	35 - 120	25
Benzo(a)pyrene	200	330 ug/kg			55 - 120	25	55 - 120	20
Benzyl alcohol	240	330 ug/kg			30 - 120	30	35 - 120	25
Bis(2-chloroethoxy)methane	210	330 ug/kg			40 - 120	25	45 - 120	20
Bis(2-chloroethyl)ether	90	170 ug/kg			35 - 110	25	35 - 110	25
Bis(2-chloroisopropyl)ether	290	330 ug/kg			40 - 120	25	40 - 120	20
Bis(2-ethylhexyl)phthalate	250	330 ug/kg			50 - 120	25	55 - 120	20
4-Bromophenyl phenyl ether	190	330 ug/kg			45 - 120	20	45 - 120	20
Butyl benzyl phthalate	170	330 ug/kg			50 - 120	25	55 - 120	20
4-Chloroaniline	150	330 ug/kg			10 - 120	30	15 - 120	30
2-Chloronaphthalene	200	330 ug/kg			45 - 120	20	45 - 120	20
-Chloro-3-methylphenol	210	330 ug/kg			50 - 120	25	50 - 120	20
2-Chlorophenol	230	330 ug/kg			40 - 120	20	40 - 120	20
4-Chlorophenyl phenyl ether	170	330 ug/kg			50 - 120	25	55 - 120	20
Chrysene	160	330 ug/kg			55 - 120	25	55 - 120	20
Dibenz(a,h)anthracene	250	420 ug/kg			25 - 120	30	35 - 120	25
Dibenzofuran	190	330 ug/kg			55 - 120	25	55 - 120	20
Di-n-butyl phthalate	190	330 ug/kg			50 - 120	25	55 - 120	20
1,3-Dichlorobenzene	260	330 ug/kg			35 - 120	25	35 - 120	25
1,4-Dichlorobenzene	250	330 ug/kg			35 - 120	25	35 - 120	25
1,2-Dichlorobenzene	260	330 ug/kg			35 - 120	25	35 - 120	20
3,3-Dichlorobenzidine	200	830 ug/kg			15 - 120	25	20 - 120	25
2,4-Dichlorophenol	200	330 ug/kg			45 - 120	25	45 - 120	20
Diethyl phthalate	190	330 ug/kg			50 - 120	25	50 - 120	20
2,4-Dimethylphenol	200	330 ug/kg			35 - 120	25	40 - 120	20
Dimethyl phthalate	190	330 ug/kg			45 - 120	25	55 - 120	20
4,6-Dinitro-2-methylphenol	170	420 ug/kg			15 - 120	25	40 - 120	25
2,4-Dinitrophenol	140	660 ug/kg			10 - 120	25	15 - 120	25
2,4-Dinitrotoluene	210	330 ug/kg			50 - 120	25	55 - 120	20
2,6-Dinitrotoluene	210	330 ug/kg			50 - 120	20	55 - 120	20
Di-n-octyl phthalate	200	330 ug/kg			45 - 120	25	55 - 120	20
Fluoranthene	180	330 ug/kg			45 - 120	30	55 - 120	20
Fluorene	180	330 ug/kg			50 - 120	25	55 - 120	20
Hexachlorobenzene	210	330 ug/kg			40 - 120	25	50 - 120	20
Hexachlorobutadiene	250	330 ug/kg			40 - 110	25	40 - 110	20
xachlorocyclopentadiene	310	830 ug/kg			20 - 120	30	35 - 120	25
Hexachloroethane	280	330 ug/kg			35 - 120	30	35 - 120	20

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Analytical Method Information

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike / LCS %R	Blank Spike / LCS RPD
Indeno(1,2,3-cd)pyrene	250	330 ug/kg			20 - 155	30	25 - 150	25
Isophorone	210	330 ug/kg			40 - 120	25	40 - 120	20
2-Methylnaphthalene	230	330 ug/kg			45 - 120	20	45 - 120	20
2-Methylphenol	210	330 ug/kg			40 - 120	25	40 - 120	20
4-Methylphenol	210	330 ug/kg			40 - 120	25	45 - 120	20
Naphthalene	230	330 ug/kg			40 - 120	25	45 - 120	20
2-Nitroaniline	220	330 ug/kg			50 - 120	25	50 - 120	20
3-Nitroaniline	140	330 ug/kg			30 - 120	25	35 - 120	25
4-Nitroaniline	170	830 ug/kg			40 - 120	30	45 - 120	20
Nitrobenzene	240	330 ug/kg			40 - 120	25	40 - 120	20
2-Nitrophenol	260	330 ug/kg			40 - 120	25	45 - 120	20
4-Nitrophenol	170	830 ug/kg			35 - 120	30	40 - 120	20
N-Nitrosodiphenylamine	190	330 ug/kg			50 - 120	25	50 - 120	20
N-Nitroso-di-n-propylamine	240	250 ug/kg			35 - 120	25	40 - 120	20
Pentachlorophenol	200	830 ug/kg			30 - 125	25	40 - 125	20
Phenanthrene	170	330 ug/kg			50 - 120	25	50 - 120	20
Phenol	210	330 ug/kg			35 - 120	25	35 - 120	20
Pyrene	150	330 ug/kg			50 - 125	30	50 - 120	25
1,2,4-Trichlorobenzene	240	330 ug/kg			40 - 120	25	40 - 120	20
2,4,5-Trichlorophenol	180	330 ug/kg			50 - 120	20	50 - 120	20
2,4,6-Trichlorophenol	200	330 ug/kg			40 - 120	25	50 - 120	20
N-Nitrosodimethylamine	220	330 ug/kg			25 - 125	25	25 - 125	25
1,2-Diphenylhydrazine/Azobenzene	200	330 ug/kg			50 - 125	25	55 - 125	20
surr: 2-Fluorophenol			25 - 120					
surr: Phenol-d6			35 - 120					
surr: 2,4,6-Tribromophenol			35 - 125					
surr: Nitrobenzene-d5			30 - 120					
surr: 2-Fluorobiphenyl			35 - 120					
surr: Terphenyl-d14			40 - 135					

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Analytical Method Information

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike / LCS %R	Blank Spike / LCS RPD
8270C+NDMA-Low Level in Water (EPA 8270C)								
Preservation:4 C, Cool								
Container:1 L Amber		**Amount Required:2000 ml**			**Hold Time:7 days**			
Acenaphthene	0.10	0.50 ug/l			55 - 120	25	55 - 120	20
Acenaphthylene	0.10	0.50 ug/l			55 - 120	25	55 - 120	20
Aniline	2.9	10 ug/l			35 - 120	25	35 - 120	25
Anthracene	0.083	0.50 ug/l			55 - 120	25	55 - 120	20
Benzidine	2.4	5.0 ug/l			20 - 160	35	20 - 160	35
Benzoic acid	3.7	20 ug/l			35 - 120	30	35 - 120	30
Benzo(a)anthracene	0.038	5.0 ug/l			60 - 120	20	60 - 120	20
Benzo(a)pyrene	0.14	2.0 ug/l			55 - 125	25	55 - 120	25
Benzo(b)fluoranthene	0.050	2.0 ug/l			50 - 120	25	50 - 120	25
Benzo(g,h,i)perylene	0.059	5.0 ug/l			40 - 125	25	40 - 125	25
Benzo(k)fluoranthene	0.053	0.50 ug/l			50 - 120	25	50 - 120	20
Benzyl alcohol	0.21	5.0 ug/l			45 - 120	25	45 - 120	20
Bis(2-chloroethoxy)methane	0.072	0.50 ug/l			55 - 120	20	55 - 120	20
Bis(2-chloroethyl)ether	0.084	0.50 ug/l			50 - 120	25	50 - 120	20
Bis(2-chloroisopropyl)ether	0.11	0.50 ug/l			45 - 120	25	45 - 120	20
Bis(2-ethylhexyl)phthalate	1.1	5.0 ug/l			60 - 130	20	60 - 130	20
4-Bromophenyl phenyl ether	0.12	1.0 ug/l			50 - 120	25	50 - 120	25
Butyl benzyl phthalate	0.34	5.0 ug/l			55 - 125	25	55 - 125	20
4-Chloroaniline	0.20	2.0 ug/l			50 - 120	25	50 - 120	25
2-Chloronaphthalene	0.059	0.50 ug/l			55 - 120	20	55 - 120	20
4-Chloro-3-methylphenol	0.34	2.0 ug/l			60 - 120	25	60 - 120	25
4-Chlorophenyl phenyl ether	0.056	0.50 ug/l			55 - 120	25	55 - 120	20
2-Chlorophenol	0.12	1.0 ug/l			45 - 120	25	45 - 120	25
Chrysene	0.072	0.50 ug/l			60 - 120	20	60 - 120	20
Dibenz(a,h)anthracene	0.083	0.50 ug/l			45 - 130	25	45 - 130	25
Dibenzofuran	0.075	0.50 ug/l			60 - 120	25	60 - 120	20
Di-n-butyl phthalate	0.26	2.0 ug/l			55 - 125	20	55 - 125	20
1,2-Dichlorobenzene	0.11	0.50 ug/l			35 - 120	25	35 - 120	25
1,3-Dichlorobenzene	0.13	0.50 ug/l			35 - 120	25	35 - 120	25
1,4-Dichlorobenzene	0.050	0.50 ug/l			35 - 120	25	35 - 120	25
3,3-Dichlorobenzidine	0.93	5.0 ug/l			45 - 130	25	45 - 130	25
2,4-Dichlorophenol	0.21	2.0 ug/l			55 - 120	25	55 - 120	20
Diethyl phthalate	0.12	1.0 ug/l			55 - 120	25	55 - 120	20
2,4-Dimethylphenol	0.31	2.0 ug/l			30 - 120	25	30 - 120	25
Dimethyl phthalate	0.081	0.50 ug/l			60 - 120	20	60 - 120	20
4,6-Dinitro-2-methylphenol	0.38	5.0 ug/l			50 - 120	25	50 - 120	25
2,4-Dinitrophenol	2.7	5.0 ug/l			40 - 120	25	40 - 120	25
2,4-Dinitrotoluene	0.23	5.0 ug/l			60 - 120	25	60 - 120	20
2,6-Dinitrotoluene	0.24	5.0 ug/l			60 - 120	20	60 - 120	20
Di-n-octyl phthalate	0.17	5.0 ug/l			60 - 130	20	60 - 130	20
1,2-Diphenylhydrazine/Azobenzene	0.087	1.0 ug/l			60 - 120	25	60 - 120	25
Fluoranthene	0.089	0.50 ug/l			55 - 120	20	55 - 120	20
Fluorene	0.075	0.50 ug/l			60 - 120	20	60 - 120	20
Hexachlorobenzene	0.13	1.0 ug/l			45 - 125	20	50 - 120	20
Hexachlorobutadiene	0.38	2.0 ug/l			40 - 120	25	40 - 120	25
Hexachlorocyclopentadiene	1.8	5.0 ug/l			15 - 120	30	15 - 120	30

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Analytical Method Information

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike / LCS %R	Blank Spike / LCS RPD
Hexachloroethane	0.51	3.0 ug/l			35 - 120	25	35 - 120	25
Indeno(1,2,3-cd)pyrene	0.19	2.0 ug/l			40 - 130	25	40 - 130	25
Isophorone	0.059	1.0 ug/l			50 - 120	20	50 - 120	20
2-Methylnaphthalene	0.13	1.0 ug/l			50 - 120	20	50 - 120	20
2-Methylphenol	0.28	2.0 ug/l			45 - 120	25	45 - 120	20
4-Methylphenol	0.20	5.0 ug/l			45 - 120	25	45 - 120	20
Naphthalene	0.13	1.0 ug/l			50 - 120	20	50 - 120	20
2-Nitroaniline	0.18	5.0 ug/l			60 - 120	25	60 - 120	20
3-Nitroaniline	0.35	5.0 ug/l			55 - 120	25	55 - 120	25
4-Nitroaniline	0.49	5.0 ug/l			50 - 125	25	50 - 125	20
Nitrobenzene	0.10	1.0 ug/l			50 - 120	25	50 - 120	25
2-Nitrophenol	0.23	2.0 ug/l			55 - 120	25	55 - 120	25
4-Nitrophenol	0.73	5.0 ug/l			45 - 120	25	45 - 120	25
N-Nitrosodimethylamine	0.22	2.0 ug/l			40 - 120	20	40 - 120	20
N-Nitroso-di-n-propylamine	0.18	2.0 ug/l			45 - 120	25	45 - 120	20
N-Nitrosodiphenylamine	0.077	1.0 ug/l			55 - 120	20	55 - 120	20
Pentachlorophenol	0.78	2.0 ug/l			45 - 130	25	50 - 120	25
Phenanthrene	0.071	0.50 ug/l			55 - 120	20	55 - 120	20
Phenol	0.14	1.0 ug/l			40 - 120	25	45 - 120	25
Pyrene	0.059	0.50 ug/l			50 - 120	20	50 - 120	25
1,2,4-Trichlorobenzene	0.10	1.0 ug/l			45 - 120	20	45 - 120	20
2,4,5-Trichlorophenol	0.075	2.0 ug/l			60 - 120	20	60 - 120	20
2,4,6-Trichlorophenol	0.10	1.0 ug/l			60 - 120	20	60 - 120	20
surr: 2-Fluorophenol			30 - 120					
surr: Phenol-d6			35 - 120					
surr: 2,4,6-Tribromophenol			45 - 120					
surr: Nitrobenzene-d5			45 - 120					
surr: 2-Fluorobiphenyl			45 - 120					
surr: Terphenyl-d14			45 - 120					

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Analytical Method Information

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike / LCS %R	Blank Spike / LCS RPD
8270C+NDMA+Hydrazine in Water (EPA 8270C)								
Preservation: 4 C, Cool								
Container: 1 L Amber		**Amount Required:** 2000 ml			**Hold Time:** 7 days			
Acenaphthene	4.3	10 ug/l			55 - 120	25	55 - 120	20
Acenaphthylene	3.2	10 ug/l			55 - 120	25	55 - 120	20
Aniline	2.9	10 ug/l			35 - 120	25	35 - 120	25
Anthracene	3.2	10 ug/l			55 - 120	25	55 - 120	20
Benzidine	5.2	20 ug/l			20 - 160	35	20 - 160	35
Benzoic acid	2.6	20 ug/l			35 - 120	30	35 - 120	30
Benzo(a)anthracene	3.7	10 ug/l			60 - 120	20	60 - 120	20
Benzo(b)fluoranthene	2.7	10 ug/l			50 - 120	25	50 - 120	25
Benzo(k)fluoranthene	3.4	10 ug/l			50 - 120	25	50 - 120	20
Benzo(g,h,i)perylene	5.3	10 ug/l			40 - 125	25	40 - 125	25
Benzo(a)pyrene	3.5	10 ug/l			55 - 125	25	55 - 120	25
Benzyl alcohol	2.5	20 ug/l			45 - 120	25	45 - 120	20
Bis(2-chloroethoxy)methane	3.9	10 ug/l			55 - 120	20	55 - 120	20
Bis(2-chloroethyl)ether	4.4	10 ug/l			50 - 120	25	50 - 120	20
Bis(2-chloroisopropyl)ether	4.6	10 ug/l			45 - 120	25	45 - 120	20
Bis(2-ethylhexyl)phthalate	5.2	50 ug/l			60 - 130	20	60 - 130	20
4-Bromophenyl phenyl ether	4.6	10 ug/l			50 - 120	25	50 - 120	25
Butyl benzyl phthalate	3.5	20 ug/l			55 - 125	25	55 - 125	20
4-Chloroaniline	6.0	10 ug/l			50 - 120	25	50 - 120	25
2-Chloronaphthalene	4.0	10 ug/l			55 - 120	20	55 - 120	20
4-Chloro-3-methylphenol	3.5	20 ug/l			60 - 120	25	60 - 120	25
2-Chlorophenol	4.2	10 ug/l			45 - 120	25	45 - 120	25
4-Chlorophenyl phenyl ether	3.0	10 ug/l			55 - 120	25	55 - 120	20
Chrysene	2.8	10 ug/l			60 - 120	20	60 - 120	20
Dibenz(a,h)anthracene	4.7	20 ug/l			45 - 130	25	45 - 130	25
Dibenzofuran	2.6	10 ug/l			60 - 120	25	60 - 120	20
Di-n-butyl phthalate	2.8	20 ug/l			55 - 125	20	55 - 125	20
1,3-Dichlorobenzene	4.1	10 ug/l			35 - 120	25	35 - 120	25
1,4-Dichlorobenzene	3.9	10 ug/l			35 - 120	25	35 - 120	25
1,2-Dichlorobenzene	4.5	10 ug/l			35 - 120	25	35 - 120	25
3,3-Dichlorobenzidine	11	20 ug/l			45 - 130	25	45 - 130	25
2,4-Dichlorophenol	4.1	10 ug/l			55 - 120	25	55 - 120	20
Diethyl phthalate	3.1	10 ug/l			55 - 120	25	55 - 120	20
2,4-Dimethylphenol	4.4	20 ug/l			30 - 120	25	30 - 120	25
Dimethyl phthalate	3.6	10 ug/l			60 - 120	20	60 - 120	20
4,6-Dinitro-2-methylphenol	5.1	20 ug/l			50 - 120	25	50 - 120	25
2,4-Dinitrophenol	5.3	20 ug/l			40 - 120	25	40 - 120	25
2,4-Dinitrotoluene	4.2	10 ug/l			60 - 120	25	60 - 120	20
2,6-Dinitrotoluene	3.2	10 ug/l			60 - 120	20	60 - 120	20
Di-n-octyl phthalate	4.7	20 ug/l			60 - 130	20	60 - 130	20
Fluoranthene	4.2	10 ug/l			55 - 120	20	55 - 120	20
Fluorene	3.9	10 ug/l			60 - 120	20	60 - 120	20
Hexachlorobenzene	4.8	10 ug/l			45 - 125	20	50 - 120	20
Hexachlorobutadiene	4.2	10 ug/l			40 - 120	25	40 - 120	25
Hexachlorocyclopentadiene	3.4	20 ug/l			15 - 120	30	15 - 120	30
Hexachloroethane	4.2	10 ug/l			35 - 120	25	35 - 120	25

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Analytical Method Information

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike/ LCS %R	Blank Spike/ LCS RPD
Indeno(1,2,3-cd)pyrene	5.4	20 ug/l			40 - 130	25	40 - 130	25
Isophorone	3.7	10 ug/l			50 - 120	20	50 - 120	20
2-Methylnaphthalene	3.0	10 ug/l			50 - 120	20	50 - 120	20
2-Methylphenol	3.7	10 ug/l			45 - 120	25	45 - 120	20
4-Methylphenol	3.8	10 ug/l			45 - 120	25	45 - 120	20
Naphthalene	4.5	10 ug/l			50 - 120	20	50 - 120	20
2-Nitroaniline	3.9	20 ug/l			60 - 120	25	60 - 120	20
3-Nitroaniline	4.5	20 ug/l			55 - 120	25	55 - 120	25
4-Nitroaniline	4.9	20 ug/l			50 - 125	25	50 - 125	20
Nitrobenzene	4.2	20 ug/l			50 - 120	25	50 - 120	25
2-Nitrophenol	4.2	10 ug/l			55 - 120	25	55 - 120	25
4-Nitrophenol	6.6	20 ug/l			45 - 120	25	45 - 120	25
N-Nitrosodiphenylamine	4.0	10 ug/l			55 - 120	20	55 - 120	20
N-Nitroso-di-n-propylamine	3.6	10 ug/l			45 - 120	25	45 - 120	20
Pentachlorophenol	4.0	20 ug/l			45 - 130	25	50 - 120	25
Phenanthrene	3.3	10 ug/l			55 - 120	20	55 - 120	20
Phenol	4.0	10 ug/l			40 - 120	25	45 - 120	25
Pyrene	3.9	10 ug/l			50 - 120	20	50 - 120	25
1,2,4-Trichlorobenzene	4.4	10 ug/l			45 - 120	20	45 - 120	20
2,4,5-Trichlorophenol	3.6	20 ug/l			60 - 120	20	60 - 120	20
2,4,6-Trichlorophenol	4.1	20 ug/l			60 - 120	20	60 - 120	20
N-Nitrosodimethylamine	3.7	20 ug/l			40 - 120	20	40 - 120	20
1,2-Diphenylhydrazine/Azobenzene	5.0	20 ug/l			60 - 120	25	60 - 120	25
surr: 2-Fluorophenol			30 - 120					
surr: Phenol-d6			35 - 120					
surr: 2,4,6-Tribromophenol			45 - 120					
surr: Nitrobenzene-d5			45 - 120					
surr: 2-Fluorobiphenyl			45 - 120					
surr: Terphenyl-d14			45 - 120					

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Analytical Method Information

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike / LCS %R	Blank Spike / LCS RPD
Antimony-6010B in Soil (EPA 6010B)								
Preservation: 4 C, Cool								
Container: 4 oz Jar/BrassSleeve		**Amount Required:** 100 g				**Hold Time:** 180 days		
Antimony	0.80	10 mg/kg			75 - 125	20	80 - 120	20
Arsenic-6010B in Soil (EPA 6010B)								
Preservation: 4 C, Cool								
Container: 4 oz Jar/BrassSleeve		**Amount Required:** 100 g				**Hold Time:** 180 days		
Arsenic	0.60	2.0 mg/kg			75 - 125	20	80 - 120	20
Barium-6010B in Soil (EPA 6010B)								
Preservation: 4 C, Cool								
Container: 4 oz Jar/BrassSleeve		**Amount Required:** 100 g				**Hold Time:** 180 days		
Barium	0.80	1.0 mg/kg			75 - 125	20	80 - 120	20
Beryllium-6010B in Soil (EPA 6010B)								
Preservation: 4 C, Cool								
Container: 4 oz Jar/BrassSleeve		**Amount Required:** 100 g				**Hold Time:** 180 days		
Beryllium	0.20	0.50 mg/kg			75 - 125	20	80 - 120	20
Cadmium-6010B in Soil (EPA 6010B)								
Preservation: 4 C, Cool								
Container: 4 oz Jar/BrassSleeve		**Amount Required:** 100 g				**Hold Time:** 180 days		
Cadmium	0.20	0.50 mg/kg			75 - 125	20	80 - 120	20
Chromium-6010B in Soil (EPA 6010B)								
Preservation: 4 C, Cool								
Container: 4 oz Jar/BrassSleeve		**Amount Required:** 100 g				**Hold Time:** 180 days		
Chromium	0.30	1.0 mg/kg			75 - 125	20	80 - 120	20
Cobalt-6010B in Soil (EPA 6010B)								
Preservation: 4 C, Cool								
Container: 4 oz Jar/BrassSleeve		**Amount Required:** 100 g				**Hold Time:** 180 days		
Cobalt	0.30	1.0 mg/kg			75 - 125	20	80 - 120	20
Copper-6010B in Soil (EPA 6010B)								
Preservation: 4 C, Cool								
Container: 4 oz Jar/BrassSleeve		**Amount Required:** 100 g				**Hold Time:** 180 days		
Copper	0.20	2.0 mg/kg			75 - 125	20	80 - 120	20
Lead-6010B in Soil (EPA 6010B)								
Preservation: 4 C, Cool								
Container: 4 oz Jar/BrassSleeve		**Amount Required:** 100 g				**Hold Time:** 180 days		
Lead	0.40	2.0 mg/kg			75 - 125	20	80 - 120	20
Mercury-7470/7471 in Soil (EPA 7471A)								
Preservation: 4 C, Cool								
Container: 4 oz Jar/BrassSleeve		**Amount Required:** 100 grams				**Hold Time:** 28 days		
Mercury	0.0063	0.020 mg/kg			65 - 135	20	85 - 120	20
Molybdenum-6010B in Soil (EPA 6010B)								
Preservation: 4 C, Cool								
Container: 4 oz Jar/BrassSleeve		**Amount Required:** 100 g				**Hold Time:** 180 days		
Molybdenum	0.20	2.0 mg/kg			75 - 125	20	80 - 120	20

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Analytical Method Information

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike / LCS %R	Blank Spike / LCS RPD
Nickel-6010B in Soil (EPA 6010B)								
Preservation: 4 C, Cool								
Container: 4 oz Jar/BrassSleeve		**Amount Required:** 100 g				**Hold Time:** 180 days		
Nickel	0.20	2.0 mg/kg			75 - 125	20	80 - 120	20
Selenium-6010B in Soil (EPA 6010B)								
Preservation: 4 C, Cool								
Container: 4 oz Jar/BrassSleeve		**Amount Required:** 100 g				**Hold Time:** 180 days		
Selenium	1.0	2.0 mg/kg			75 - 125	20	80 - 120	20
Silver-6010B in Soil (EPA 6010B)								
Preservation: 4 C, Cool								
Container: 4 oz Jar/BrassSleeve		**Amount Required:** 100 g				**Hold Time:** 180 days		
Silver	0.40	1.0 mg/kg			75 - 125	20	80 - 120	20
Thallium-6010B in Soil (EPA 6010B)								
Preservation: 4 C, Cool								
Container: 4 oz Jar/BrassSleeve		**Amount Required:** 100 g				**Hold Time:** 180 days		
Thallium	0.80	10 mg/kg			75 - 125	20	80 - 120	20
Vanadium-6010B in Soil (EPA 6010B)								
Preservation: 4 C, Cool								
Container: 4 oz Jar/BrassSleeve		**Amount Required:** 100 g				**Hold Time:** 180 days		
Vanadium	0.30	1.0 mg/kg			75 - 125	20	80 - 120	20
Zinc-6010B in Soil (EPA 6010B)								
Preservation: 4 C, Cool								
Container: 4 oz Jar/BrassSleeve		**Amount Required:** 100 g				**Hold Time:** 180 days		
Zinc	1.5	5.0 mg/kg			75 - 125	20	80 - 120	20

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Analytical Method Information

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike / LCS %R	Blank Spike / LCS RPD
Antimony-6010B in Water (EPA 6010B)								
Preservation:4 C, HNO3								
Container:500 ml Poly		**Amount Required:**500 ml				**Hold Time:**180 days		
Antimony	0.0060	0.010 mg/l			75 - 125	20	80 - 120	20
Arsenic-6010B in Water (EPA 6010B)								
Preservation:4 C, HNO3								
Container:500 ml Poly		**Amount Required:**500 ml				**Hold Time:**180 days		
Arsenic	0.0044	0.0050 mg/l			75 - 125	20	80 - 120	20
Barium-6010B in Water (EPA 6010B)								
Preservation:4 C, HNO3								
Container:500 ml Poly		**Amount Required:**500 ml				**Hold Time:**180 days		
Barium	0.0060	0.010 mg/l			75 - 125	20	80 - 120	20
Beryllium-6010B in Water (EPA 6010B)								
Preservation:4 C, HNO3								
Container:500 ml Poly		**Amount Required:**500 ml				**Hold Time:**180 days		
Beryllium	0.00090	0.0040 mg/l			75 - 125	20	80 - 120	20
Cadmium-6010B in Water (EPA 6010B)								
Preservation:4 C, HNO3								
Container:500 ml Poly		**Amount Required:**500 ml				**Hold Time:**180 days		
Cadmium	0.0020	0.0050 mg/l			75 - 125	20	80 - 120	20
Chromium-6010B in Water (EPA 6010B)								
Preservation:4 C, HNO3								
Container:500 ml Poly		**Amount Required:**500 ml				**Hold Time:**180 days		
Chromium	0.0020	0.0050 mg/l			75 - 125	20	80 - 120	20
Cobalt-6010B in Water (EPA 6010B)								
Preservation:4 C, HNO3								
Container:500 ml Poly		**Amount Required:**500 ml				**Hold Time:**180 days		
Cobalt	0.0020	0.010 mg/l			75 - 125	20	80 - 120	20
Copper-6010B in Water (EPA 6010B)								
Preservation:4 C, HNO3								
Container:500 ml Poly		**Amount Required:**500 ml				**Hold Time:**180 days		
Copper	0.0020	0.010 mg/l			75 - 125	20	80 - 120	20
Lead-6010B in Water (EPA 6010B)								
Preservation:4 C, HNO3								
Container:500 ml Poly		**Amount Required:**500 ml				**Hold Time:**180 days		
Lead	0.0030	0.0050 mg/l			75 - 125	20	80 - 120	20
Mercury-7470/7471 in Water (EPA 7470A)								
Preservation:HNO3								
Container:500 ml Poly		**Amount Required:**100 ml				**Hold Time:**28 days		
Mercury	0.000063	0.00020 mg/l			75 - 120	20	90 - 115	20
Molybdenum-6010B in Water (EPA 6010B)								
Preservation:4 C, HNO3								
Container:500 ml Poly		**Amount Required:**500 ml				**Hold Time:**180 days		
Molybdenum	0.0020	0.020 mg/l			75 - 125	20	80 - 120	20

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Analytical Method Information

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike/ LCS %R	Blank Spike/ LCS RPD
Nickel-6010B in Water (EPA 6010B)								
Preservation:4 C, HNO3								
Container:500 ml Poly		**Amount Required:**500 ml				**Hold Time:**180 days		
Nickel	0.0020	0.010 mg/l			75 - 125	20	80 - 120	20
Selenium-6010B in Water (EPA 6010B)								
Preservation:4 C, HNO3								
Container:500 ml Poly		**Amount Required:**500 ml				**Hold Time:**180 days		
Selenium	0.0080	0.010 mg/l			75 - 125	20	80 - 120	20
Silver-6010B in Water (EPA 6010B)								
Preservation:4 C, HNO3								
Container:500 ml Poly		**Amount Required:**500 ml				**Hold Time:**180 days		
Silver	0.0030	0.010 mg/l			75 - 125	20	80 - 120	20
Thallium-6010B in Water (EPA 6010B)								
Preservation:4 C, HNO3								
Container:500 ml Poly		**Amount Required:**500 ml				**Hold Time:**180 days		
Thallium	0.0070	0.010 mg/l			75 - 125	20	80 - 120	20
Vanadium-6010B in Water (EPA 6010B)								
Preservation:4 C, HNO3								
Container:500 ml Poly		**Amount Required:**500 ml				**Hold Time:**180 days		
Vanadium	0.0030	0.010 mg/l			75 - 125	20	80 - 120	20
Zinc-6010B in Water (EPA 6010B)								
Preservation:4 C, HNO3								
Container:500 ml Poly		**Amount Required:**500 ml				**Hold Time:**180 days		
Zinc	0.015	0.020 mg/l			75 - 125	20	80 - 120	20

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Analytical Method Information

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike / LCS %R	Blank Spike / LCS RPD
Chromium VI-7199 in Soil (EPA 7199)								
Preservation: 4 C, Cool								
Container: 4 oz Jar		**Amount Required:** 100 grams				**Hold Time:** 30 days		
Chromium VI	0.020	0.20 mg/kg			55 - 110	20	65 - 110	20

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Analytical Method Information

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike / LCS %R	Blank Spike / LCS RPD
Chromium VI-7199 in Water (EPA 7199)								
Preservation: Filtration + pH 9-9.5, 4 C								
Container: 500 ml Poly			**Amount Required:** 100 ml			**Hold Time:** 1 day		
Chromium VI	0.00010	0.0020 mg/l			80 - 115	15	90 - 110	10

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Analytical Method Information

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike/ LCS %R	Blank Spike/ LCS RPD
8015B-Diesel in Soil (EPA 8015 MOD.)								
Preservation: 4 C, Cool								
Container: Brass Sleeve		**Amount Required:** 100 g			**Hold Time:** 14 days			
EFH (C8 - C40)	1.8	5.0 mg/kg			30 - 125	30	40 - 120	25
surr: n-Octacosane			40 - 130					

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Analytical Method Information

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike / LCS %R	Blank Spike / LCS RPD
8015B-Diesel in Water (EPA 8015B)								
Preservation: 4 C, Cool								
Container: 1 L Amber		**Amount Required:** 2000 ml			**Hold Time:** 7 days			
EFH (C8 - C40)	0.082	0.50 mg/l			40 - 120	30	40 - 120	25
surr: n-Octacosane			40 - 125					