Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: K53-B-1_SS
Date Collected: 12/05/13 09:45
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-3
Matrix: Solid
Percent Solids: 92.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	3500	110	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Acenaphthylene	180	U	3500	180	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Acetophenone	210	U	3500	210	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Aniline	1400	U	3500	1400	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Anthracene	180	U	3500	180	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Azobenzene	240	U	3500	240	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Benzo[a]anthracene	210	U	3500	210	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Benzo[a]pyrene	210	U	3500	210	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Benzo[b]fluoranthene	280	U	3500	280	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Benzo[g,h,i]perylene	170	U	3500	170	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Benzoic acid	3500	U	17000	3500	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Benzo[k]fluoranthene	430	U	3500	430	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Benzyl alcohol	110	U	3500	110	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Bis(2-chloroethoxy)methane	250	U	3500	250	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Bis(2-chloroethyl)ether	180	U	3500	180	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Bis(2-ethylhexyl) phthalate	490	U	3500	490	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
4-Bromophenyl phenyl ether	200	U	3500	200	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Butyl benzyl phthalate	460	U	3500	460	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Carbazole	390	U	3500	390	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
4-Chloroaniline	880	U	3500	880	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
4-Chloro-3-methylphenol	710	U	3500	710	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2-Chloronaphthalene	110	U	3500	110	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2-Chlorophenol	230	U	3500	230	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
4-Chlorophenyl phenyl ether	230	U	3500	230	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Chrysene	290	U	3500	290	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Dibenz(a,h)anthracene	200	U	3500	200	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Dibenzofuran	210	U	3500	210	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
3,3'-Dichlorobenzidine	970	U	7100	970	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2,4-Dichlorophenol	110	U	3500	110	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Diethyl phthalate	280	U	7100	280	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2,4-Dimethylphenol	710	U	3500	710	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Dimethyl phthalate	250	U	3500	250	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Di-n-butyl phthalate	310	U	3500	310	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2,4-Dinitrophenol	3600	U	17000	3600	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2,4-Dinitrotoluene	710	U	3500	710	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2,6-Dinitrotoluene	300	U	3500	300	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Di-n-octyl phthalate	150	U	3500	150	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
1,4-Dioxane	710	U	7100	710	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
1,2-Diphenyl-hydrazine	240	U	3500	240	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Fluoranthene	390	U	3500	390	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Fluorene	190	U	3500	190	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Hexachlorobenzene	310	U	3500	310	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Hexachlorobutadiene	110	U	3500	110	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Hexachlorocyclopentadiene	540	U	17000	540	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Hexachloroethane	230	U	3500	230	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Indeno[1,2,3-cd]pyrene	240	U	3500	240	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Isophorone	180	U	3500	180	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2-Methylnaphthalene	200	U	3500	200	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
3 & 4 Methylphenol	350	U	3500	350	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10

Client Sample ID: K53-B-1_SS

Lab Sample ID: 680-96898-3
Date Collected: 12/05/13 09:45
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 92.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	330	U	3500	330	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2-Nitroaniline	540	U	17000	540	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
3-Nitroaniline	780	U	17000	780	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
4-Nitroaniline	780	U	17000	780	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Nitrobenzene	240	U	3500	240	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2-Nitrophenol	110	U	3500	110	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
4-Nitrophenol	1000	U	17000	1000	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
N-Nitrosodi-n-propylamine	330	U	3500	330	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
n-Nitrosodiphenylamine(as diphenylamine)	230	U	3500	230	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2,2'-oxybis[1-chloropropane]	250	U	3500	250	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Pentachlorobenzene	700	U	3500	700	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Pentachlorophenol	3500	U	17000	3500	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Phenanthrene	180	U	3500	180	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Phenol	190	U	3500	190	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Phthalic acid	8200	U	27000	8200	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
Pyrene	130	U	3500	130	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
1,2,4,5-Tetrachlorobenzene	530	U	3500	530	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2,4,5-Trichlorophenol	110	U	3500	110	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10
2,4,6-Trichlorophenol	110	U	3500	110	ug/Kg	☼	12/11/13 18:54	12/16/13 15:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*	*D*	*50 - 120*	*12/11/13 18:54*	*12/16/13 15:25*	*10*
2-Fluorophenol	*76*	*D*	*53 - 120*	*12/11/13 18:54*	*12/16/13 15:25*	*10*
Nitrobenzene-d5	*78*	*D*	*50 - 120*	*12/11/13 18:54*	*12/16/13 15:25*	*10*
Phenol-d5	*83*	*D*	*52 - 120*	*12/11/13 18:54*	*12/16/13 15:25*	*10*
Terphenyl-d14	*93*	*D*	*55 - 120*	*12/11/13 18:54*	*12/16/13 15:25*	*10*
2,4,6-Tribromophenol	*82*	*D*	*51 - 120*	*12/11/13 18:54*	*12/16/13 15:25*	*10*

Client Sample ID: K53-B-1_SUB

Lab Sample ID: 680-96898-4
Date Collected: 12/05/13 11:00
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 92.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**40**	**B**	23	7.4	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Acetonitrile	23	U	57	23	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Benzene	0.28	U	5.7	0.28	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Bromobenzene	0.42	U	5.7	0.42	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Bromodichloromethane	0.28	U	5.7	0.28	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Bromoform	0.42	U	5.7	0.42	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Bromomethane	1.3	U	11	1.3	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
2-Butanone (MEK)	**6.6**	**J**	23	2.2	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Carbon disulfide	0.78	U	5.7	0.78	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Carbon tetrachloride	0.58	U	5.7	0.58	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Chlorobenzene	0.43	U	5.7	0.43	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Chlorobromomethane	0.93	U	5.7	0.93	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Chloroethane	0.59	U	11	0.59	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Chloroform	0.43	U	5.7	0.43	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Chloromethane	0.74	U	11	0.74	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: K53-B-1_SUB

Date Collected: 12/05/13 11:00
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-4
Matrix: Solid
Percent Solids: 92.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	0.39	U	5.7	0.39	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
4-Chlorotoluene	0.43	U	5.7	0.43	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
cis-1,2-Dichloroethene	0.68	U	5.7	0.68	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
cis-1,3-Dichloropropene	0.68	U	5.7	0.68	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Cymene	0.36	U	5.7	0.36	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Dibromochloromethane	0.47	U	5.7	0.47	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Dibromomethane	1.1	U	5.7	1.1	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,2-Dichlorobenzene	0.32	U	5.7	0.32	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,3-Dichlorobenzene	0.32	U	5.7	0.32	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,4-Dichlorobenzene	0.68	U	5.7	0.68	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Dichlorodifluoromethane	1.5	U	11	1.5	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,1-Dichloroethane	0.44	U	5.7	0.44	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,2-Dichloroethane	0.99	U	5.7	0.99	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,1-Dichloroethene	1.8	U	5.7	1.8	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,2-Dichloropropane	0.43	U	5.7	0.43	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,3-Dichloropropane	0.36	U	5.7	0.36	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
2,2-Dichloropropane	0.61	U *	5.7	0.61	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,1-Dichloropropene	0.34	U	5.7	0.34	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Ethanol	70	U	280	70	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Ethylbenzene	0.34	U	5.7	0.34	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
2-Hexanone	2.0	U	23	2.0	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Isopropylbenzene	0.30	U	5.7	0.30	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Methylene Chloride	1.8	U	5.7	1.8	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Methyl iodide	1.7	U	5.7	1.7	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
4-Methyl-2-pentanone (MIBK)	0.83	U	23	0.83	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Methyl tert-butyl ether	0.55	U	5.7	0.55	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
m-Xylene & p-Xylene	0.65	U	5.7	0.65	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Naphthalene	0.56	U	5.7	0.56	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
n-Butylbenzene	0.68	U	5.7	0.68	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
N-Propylbenzene	0.36	U	5.7	0.36	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
o-Xylene	0.39	U	5.7	0.39	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
sec-Butylbenzene	0.35	U	5.7	0.35	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Styrene	0.40	U	5.7	0.40	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
tert-Butylbenzene	0.35	U	5.7	0.35	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,1,1,2-Tetrachloroethane	0.40	U	5.7	0.40	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,1,2,2-Tetrachloroethane	0.45	U	5.7	0.45	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Tetrachloroethene	**2.7**	**J B**	5.7	0.36	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Toluene	0.80	U	5.7	0.80	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
trans-1,2-Dichloroethene	1.1	U	5.7	1.1	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
trans-1,3-Dichloropropene	0.40	U	5.7	0.40	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,2,3-Trichlorobenzene	0.50	U	5.7	0.50	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,2,4-Trichlorobenzene	0.49	U	5.7	0.49	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,1,1-Trichloroethane	0.49	U	5.7	0.49	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,1,2-Trichloroethane	0.65	U	5.7	0.65	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Trichloroethene	0.44	U	5.7	0.44	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Trichlorofluoromethane	0.57	U	5.7	0.57	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,2,3-Trichloropropane	0.64	U	5.7	0.64	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,2,4-Trimethylbenzene	0.68	U	5.7	0.68	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
1,3,5-Trimethylbenzene	0.35	U	5.7	0.35	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1

Client Sample ID: K53-B-1_SUB

Lab Sample ID: 680-96898-4

Date Collected: 12/05/13 11:00
Date Received: 12/07/13 10:10

Matrix: Solid
Percent Solids: 92.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	0.89	U	5.7	0.89	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Vinyl chloride	0.49	U	5.7	0.49	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1
Xylenes, Total	0.97	U	11	0.97	ug/Kg	☼	12/08/13 07:30	12/08/13 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*63 - 150*	*12/08/13 07:30*	*12/08/13 12:24*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 126*	*12/08/13 07:30*	*12/08/13 12:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*124*		*72 - 127*	*12/08/13 07:30*	*12/08/13 12:24*	*1*
Toluene-d8 (Surr)	*112*		*80 - 120*	*12/08/13 07:30*	*12/08/13 12:24*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Acenaphthylene	18	U	350	18	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Acetophenone	21	U	350	21	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Aniline	140	U	350	140	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Anthracene	18	U	350	18	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Azobenzene	23	U	350	23	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Benzo[a]anthracene	21	U	350	21	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Benzo[a]pyrene	21	U	350	21	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Benzo[b]fluoranthene	28	U	350	28	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Benzo[g,h,i]perylene	17	U	350	17	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Benzoic acid	350	U	1700	350	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Benzo[k]fluoranthene	42	U	350	42	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Benzyl alcohol	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Bis(2-chloroethoxy)methane	24	U	350	24	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Bis(2-chloroethyl)ether	18	U	350	18	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Bis(2-ethylhexyl) phthalate	49	U	350	49	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
4-Bromophenyl phenyl ether	20	U	350	20	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Butyl benzyl phthalate	46	U	350	46	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Carbazole	38	U	350	38	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
4-Chloroaniline	87	U	350	87	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
4-Chloro-3-methylphenol	70	U	350	70	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2-Chloronaphthalene	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2-Chlorophenol	22	U	350	22	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
4-Chlorophenyl phenyl ether	22	U	350	22	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Chrysene	29	U	350	29	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Dibenz(a,h)anthracene	20	U	350	20	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Dibenzofuran	21	U	350	21	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
3,3'-Dichlorobenzidine	95	U	700	95	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2,4-Dichlorophenol	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Diethyl phthalate	28	U	700	28	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2,4-Dimethylphenol	70	U	350	70	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Dimethyl phthalate	**340**	**J**	350	24	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Di-n-butyl phthalate	31	U	350	31	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2,4-Dinitrophenol	350	U	1700	350	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2,4-Dinitrotoluene	70	U	350	70	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2,6-Dinitrotoluene	30	U	350	30	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Di-n-octyl phthalate	15	U	350	15	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
1,4-Dioxane	70	U	700	70	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1

Client Sample ID: K53-B-1_SUB

Lab Sample ID: 680-96898-4

Date Collected: 12/05/13 11:00
Date Received: 12/07/13 10:10

Matrix: Solid
Percent Solids: 92.4

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenyl-hydrazine	23	U	350	23	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Fluoranthene	38	U	350	38	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Fluorene	19	U	350	19	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Hexachlorobenzene	31	U	350	31	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Hexachlorobutadiene	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Hexachlorocyclopentadiene	53	U	1700	53	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Hexachloroethane	23	U	350	23	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Indeno[1,2,3-cd]pyrene	23	U	350	23	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Isophorone	18	U	350	18	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2-Methylnaphthalene	20	U	350	20	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
3 & 4 Methylphenol	35	U	350	35	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Naphthalene	33	U	350	33	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2-Nitroaniline	53	U	1700	53	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
3-Nitroaniline	77	U	1700	77	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
4-Nitroaniline	77	U	1700	77	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Nitrobenzene	23	U	350	23	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2-Nitrophenol	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
4-Nitrophenol	100	U	1700	100	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
N-Nitrosodi-n-propylamine	33	U	350	33	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
n-Nitrosodiphenylamine(as diphenylamine)	22	U	350	22	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2,2'-oxybis[1-chloropropane]	24	U	350	24	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Pentachlorobenzene	69	U	350	69	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Pentachlorophenol	350	U	1700	350	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Phenanthrene	18	U	350	18	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Phenol	19	U	350	19	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Phthalic acid	810	U	2700	810	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
Pyrene	13	U	350	13	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
1,2,4,5-Tetrachlorobenzene	52	U	350	52	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2,4,5-Trichlorophenol	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1
2,4,6-Trichlorophenol	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*50 - 120*	*12/11/13 18:54*	*12/16/13 15:53*	*1*
2-Fluorophenol	*78*		*53 - 120*	*12/11/13 18:54*	*12/16/13 15:53*	*1*
Nitrobenzene-d5	*80*		*50 - 120*	*12/11/13 18:54*	*12/16/13 15:53*	*1*
Phenol-d5	*79*		*52 - 120*	*12/11/13 18:54*	*12/16/13 15:53*	*1*
Terphenyl-d14	*87*		*55 - 120*	*12/11/13 18:54*	*12/16/13 15:53*	*1*
2,4,6-Tribromophenol	*86*		*51 - 120*	*12/11/13 18:54*	*12/16/13 15:53*	*1*

Client Sample ID: K53-B-1_SUB DUP

Lab Sample ID: 680-96898-5

Date Collected: 12/05/13 11:00
Date Received: 12/07/13 10:10

Matrix: Solid
Percent Solids: 91.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	48	B	30	9.8	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Acetonitrile	31	U	76	31	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Benzene	0.38	U	7.6	0.38	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Bromobenzene	0.56	U	7.6	0.56	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: K53-B-1_SUB DUP

Lab Sample ID: 680-96898-5

Date Collected: 12/05/13 11:00
Date Received: 12/07/13 10:10

Matrix: Solid
Percent Solids: 91.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.38	U	7.6	0.38	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Bromoform	0.56	U	7.6	0.56	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Bromomethane	1.7	U	15	1.7	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
2-Butanone (MEK)	2.9	U	30	2.9	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Carbon disulfide	1.0	U	7.6	1.0	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Carbon tetrachloride	0.77	U	7.6	0.77	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Chlorobenzene	0.58	U	7.6	0.58	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Chlorobromomethane	1.2	U	7.6	1.2	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Chloroethane	0.79	U	15	0.79	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Chloroform	0.58	U	7.6	0.58	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Chloromethane	0.99	U	15	0.99	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
2-Chlorotoluene	0.52	U	7.6	0.52	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
4-Chlorotoluene	0.58	U	7.6	0.58	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
cis-1,2-Dichloroethene	0.91	U	7.6	0.91	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
cis-1,3-Dichloropropene	0.91	U	7.6	0.91	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Cymene	0.49	U	7.6	0.49	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Dibromochloromethane	0.62	U	7.6	0.62	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Dibromomethane	1.5	U	7.6	1.5	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,2-Dichlorobenzene	0.43	U	7.6	0.43	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,3-Dichlorobenzene	0.43	U	7.6	0.43	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,4-Dichlorobenzene	0.91	U	7.6	0.91	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Dichlorodifluoromethane	2.0	U	15	2.0	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,1-Dichloroethane	0.59	U	7.6	0.59	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,2-Dichloroethane	1.3	U	7.6	1.3	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,1-Dichloroethene	2.4	U	7.6	2.4	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,2-Dichloropropane	0.58	U	7.6	0.58	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,3-Dichloropropane	0.49	U	7.6	0.49	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
2,2-Dichloropropane	0.82	U *	7.6	0.82	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,1-Dichloropropene	0.46	U	7.6	0.46	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Ethanol	93	U	380	93	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Ethylbenzene	0.46	U	7.6	0.46	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
2-Hexanone	2.7	U	30	2.7	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Isopropylbenzene	0.39	U	7.6	0.39	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Methylene Chloride	2.4	U	7.6	2.4	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Methyl iodide	2.3	U	7.6	2.3	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
4-Methyl-2-pentanone (MIBK)	1.1	U	30	1.1	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Methyl tert-butyl ether	0.73	U	7.6	0.73	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
m-Xylene & p-Xylene	0.87	U	7.6	0.87	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Naphthalene	0.74	U	7.6	0.74	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
n-Butylbenzene	0.91	U	7.6	0.91	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
N-Propylbenzene	0.49	U	7.6	0.49	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
o-Xylene	0.52	U	7.6	0.52	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
sec-Butylbenzene	0.47	U	7.6	0.47	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Styrene	0.53	U	7.6	0.53	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
tert-Butylbenzene	0.47	U	7.6	0.47	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,1,1,2-Tetrachloroethane	0.53	U	7.6	0.53	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,1,2,2-Tetrachloroethane	0.61	U	7.6	0.61	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Tetrachloroethene	**2.9**	**J B**	7.6	0.49	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Toluene	1.1	U	7.6	1.1	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1

Client Sample ID: K53-B-1_SUB DUP

Lab Sample ID: 680-96898-5

Date Collected: 12/05/13 11:00
Date Received: 12/07/13 10:10

Matrix: Solid
Percent Solids: 91.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	1.4	U	7.6	1.4	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
trans-1,3-Dichloropropene	0.53	U	7.6	0.53	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,2,3-Trichlorobenzene	0.67	U	7.6	0.67	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,2,4-Trichlorobenzene	0.65	U	7.6	0.65	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,1,1-Trichloroethane	0.65	U	7.6	0.65	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,1,2-Trichloroethane	0.87	U	7.6	0.87	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Trichloroethene	0.59	U	7.6	0.59	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Trichlorofluoromethane	0.76	U	7.6	0.76	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,2,3-Trichloropropane	0.85	U	7.6	0.85	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,2,4-Trimethylbenzene	0.91	U	7.6	0.91	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
1,3,5-Trimethylbenzene	0.47	U	7.6	0.47	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Vinyl acetate	1.2	U	7.6	1.2	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Vinyl chloride	0.65	U	7.6	0.65	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1
Xylenes, Total	1.3	U	15	1.3	ug/Kg	☼	12/08/13 07:30	12/08/13 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*63 - 150*	*12/08/13 07:30*	*12/08/13 14:03*	*1*
Dibromofluoromethane (Surr)	*113*		*70 - 126*	*12/08/13 07:30*	*12/08/13 14:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*124*		*72 - 127*	*12/08/13 07:30*	*12/08/13 14:03*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*	*12/08/13 07:30*	*12/08/13 14:03*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	11	U	360	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Acenaphthylene	19	U	360	19	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Acetophenone	22	U	360	22	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Aniline	140	U	360	140	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Anthracene	19	U	360	19	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Azobenzene	24	U	360	24	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Benzo[a]anthracene	22	U	360	22	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Benzo[a]pyrene	22	U	360	22	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Benzo[b]fluoranthene	29	U	360	29	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Benzo[g,h,i]perylene	18	U	360	18	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Benzoic acid	360	U	1800	360	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Benzo[k]fluoranthene	44	U	360	44	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Benzyl alcohol	11	U	360	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Bis(2-chloroethoxy)methane	25	U	360	25	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Bis(2-chloroethyl)ether	18	U	360	18	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Bis(2-ethylhexyl) phthalate	50	U	360	50	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
4-Bromophenyl phenyl ether	21	U	360	21	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Butyl benzyl phthalate	47	U	360	47	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Carbazole	39	U	360	39	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
4-Chloroaniline	90	U	360	90	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
4-Chloro-3-methylphenol	72	U	360	72	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2-Chloronaphthalene	11	U	360	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2-Chlorophenol	23	U	360	23	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
4-Chlorophenyl phenyl ether	23	U	360	23	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Chrysene	30	U	360	30	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Dibenz(a,h)anthracene	21	U	360	21	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Dibenzofuran	22	U	360	22	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1

Client Sample ID: K53-B-1_SUB DUP

Lab Sample ID: 680-96898-5

Date Collected: 12/05/13 11:00
Date Received: 12/07/13 10:10

Matrix: Solid
Percent Solids: 91.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	99	U	720	99	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2,4-Dichlorophenol	11	U	360	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Diethyl phthalate	29	U	720	29	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2,4-Dimethylphenol	72	U	360	72	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Dimethyl phthalate	**200**	**J**	360	25	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Di-n-butyl phthalate	32	U	360	32	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2,4-Dinitrophenol	370	U	1800	370	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2,4-Dinitrotoluene	72	U	360	72	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2,6-Dinitrotoluene	31	U	360	31	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Di-n-octyl phthalate	16	U	360	16	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
1,4-Dioxane	72	U	720	72	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
1,2-Diphenyl-hydrazine	24	U	360	24	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Fluoranthene	39	U	360	39	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Fluorene	20	U	360	20	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Hexachlorobenzene	32	U	360	32	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Hexachlorobutadiene	11	U	360	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Hexachlorocyclopentadiene	55	U	1800	55	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Hexachloroethane	23	U	360	23	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Indeno[1,2,3-cd]pyrene	24	U	360	24	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Isophorone	19	U	360	19	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2-Methylnaphthalene	21	U	360	21	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
3 & 4 Methylphenol	36	U	360	36	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Naphthalene	34	U	360	34	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2-Nitroaniline	55	U	1800	55	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
3-Nitroaniline	80	U	1800	80	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
4-Nitroaniline	79	U	1800	79	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Nitrobenzene	24	U	360	24	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2-Nitrophenol	11	U	360	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
4-Nitrophenol	110	U	1800	110	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
N-Nitrosodi-n-propylamine	34	U	360	34	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
n-Nitrosodiphenylamine(as diphenylamine)	23	U	360	23	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2,2'-oxybis[1-chloropropane]	25	U	360	25	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Pentachlorobenzene	71	U	360	71	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Pentachlorophenol	360	U	1800	360	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Phenanthrene	19	U	360	19	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Phenol	20	U	360	20	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Phthalic acid	830	U	2700	830	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
Pyrene	13	U	360	13	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
1,2,4,5-Tetrachlorobenzene	54	U	360	54	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2,4,5-Trichlorophenol	11	U	360	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1
2,4,6-Trichlorophenol	11	U	360	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*50 - 120*	*12/11/13 18:54*	*12/16/13 17:17*	*1*
2-Fluorophenol	*80*		*53 - 120*	*12/11/13 18:54*	*12/16/13 17:17*	*1*
Nitrobenzene-d5	*81*		*50 - 120*	*12/11/13 18:54*	*12/16/13 17:17*	*1*
Phenol-d5	*82*		*52 - 120*	*12/11/13 18:54*	*12/16/13 17:17*	*1*
Terphenyl-d14	*91*		*55 - 120*	*12/11/13 18:54*	*12/16/13 17:17*	*1*
2,4,6-Tribromophenol	*85*		*51 - 120*	*12/11/13 18:54*	*12/16/13 17:17*	*1*

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: RD-B-1_SS

Date Collected: 12/05/13 08:20
Date Received: 12/07/13 10:10

Lab Sample ID: 680-96898-6
Matrix: Solid
Percent Solids: 92.7

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Acenaphthylene	18	U	350	18	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Acetophenone	21	U	350	21	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Aniline	140	U	350	140	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Anthracene	18	U	350	18	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Azobenzene	23	U	350	23	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Benzo[a]anthracene	21	U	350	21	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Benzo[a]pyrene	21	U	350	21	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Benzo[b]fluoranthene	28	U	350	28	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Benzo[g,h,i]perylene	17	U	350	17	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Benzoic acid	350	U	1700	350	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Benzo[k]fluoranthene	42	U	350	42	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Benzyl alcohol	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Bis(2-chloroethoxy)methane	24	U	350	24	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Bis(2-chloroethyl)ether	17	U	350	17	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Bis(2-ethylhexyl) phthalate	48	U	350	48	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
4-Bromophenyl phenyl ether	20	U	350	20	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Butyl benzyl phthalate	45	U	350	45	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Carbazole	38	U	350	38	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
4-Chloroaniline	86	U	350	86	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
4-Chloro-3-methylphenol	70	U	350	70	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2-Chloronaphthalene	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2-Chlorophenol	22	U	350	22	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
4-Chlorophenyl phenyl ether	22	U	350	22	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Chrysene	28	U	350	28	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Dibenz(a,h)anthracene	20	U	350	20	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Dibenzofuran	21	U	350	21	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
3,3'-Dichlorobenzidine	95	U	700	95	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2,4-Dichlorophenol	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Diethyl phthalate	27	U	700	27	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2,4-Dimethylphenol	70	U	350	70	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Dimethyl phthalate	**41**	**J**	350	24	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Di-n-butyl phthalate	31	U	350	31	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2,4-Dinitrophenol	350	U	1700	350	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2,4-Dinitrotoluene	70	U	350	70	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2,6-Dinitrotoluene	30	U	350	30	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Di-n-octyl phthalate	15	U	350	15	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
1,4-Dioxane	70	U	700	70	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
1,2-Diphenyl-hydrazine	23	U	350	23	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Fluoranthene	38	U	350	38	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Fluorene	19	U	350	19	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Hexachlorobenzene	31	U	350	31	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Hexachlorobutadiene	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Hexachlorocyclopentadiene	53	U	1700	53	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Hexachloroethane	22	U	350	22	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Indeno[1,2,3-cd]pyrene	23	U	350	23	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Isophorone	18	U	350	18	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2-Methylnaphthalene	20	U	350	20	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
3 & 4 Methylphenol	35	U	350	35	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1

Client Sample ID: RD-B-1_SS

Lab Sample ID: 680-96898-6
Date Collected: 12/05/13 08:20
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 92.7

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	33	U	350	33	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2-Nitroaniline	53	U	1700	53	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
3-Nitroaniline	77	U	1700	77	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
4-Nitroaniline	76	U	1700	76	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Nitrobenzene	23	U	350	23	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2-Nitrophenol	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
4-Nitrophenol	100	U	1700	100	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
N-Nitrosodi-n-propylamine	33	U	350	33	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
n-Nitrosodiphenylamine(as diphenylamine)	22	U	350	22	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2,2'-oxybis[1-chloropropane]	24	U	350	24	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Pentachlorobenzene	69	U	350	69	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Pentachlorophenol	350	U	1700	350	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Phenanthrene	18	U	350	18	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Phenol	19	U	350	19	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Phthalic acid	800	U	2600	800	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
Pyrene	**15**	**J**	350	13	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
1,2,4,5-Tetrachlorobenzene	52	U	350	52	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2,4,5-Trichlorophenol	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1
2,4,6-Trichlorophenol	11	U	350	11	ug/Kg	☼	12/11/13 18:54	12/16/13 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*50 - 120*	*12/11/13 18:54*	*12/16/13 17:45*	*1*
2-Fluorophenol	*83*		*53 - 120*	*12/11/13 18:54*	*12/16/13 17:45*	*1*
Nitrobenzene-d5	*84*		*50 - 120*	*12/11/13 18:54*	*12/16/13 17:45*	*1*
Phenol-d5	*83*		*52 - 120*	*12/11/13 18:54*	*12/16/13 17:45*	*1*
Terphenyl-d14	*91*		*55 - 120*	*12/11/13 18:54*	*12/16/13 17:45*	*1*
2,4,6-Tribromophenol	*83*		*51 - 120*	*12/11/13 18:54*	*12/16/13 17:45*	*1*

Client Sample ID: RD-B-1_SUB

Lab Sample ID: 680-96898-7
Date Collected: 12/05/13 09:00
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 94.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**19**	**B**	19	6.3	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Acetonitrile	20	U	48	20	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Benzene	0.24	U	4.8	0.24	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Bromobenzene	0.36	U	4.8	0.36	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Bromodichloromethane	0.24	U	4.8	0.24	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Bromoform	0.36	U	4.8	0.36	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Bromomethane	1.1	U	9.7	1.1	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
2-Butanone (MEK)	1.9	U	19	1.9	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Carbon disulfide	0.67	U	4.8	0.67	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Carbon tetrachloride	0.49	U	4.8	0.49	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Chlorobenzene	0.37	U	4.8	0.37	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Chlorobromomethane	0.79	U	4.8	0.79	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Chloroethane	0.50	U	9.7	0.50	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Chloroform	0.37	U	4.8	0.37	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Chloromethane	0.63	U	9.7	0.63	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: RD-B-1_SUB

Lab Sample ID: 680-96898-7

Date Collected: 12/05/13 09:00
Date Received: 12/07/13 10:10

Matrix: Solid
Percent Solids: 94.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	0.33	U	4.8	0.33	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
4-Chlorotoluene	0.37	U	4.8	0.37	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
cis-1,2-Dichloroethene	0.58	U	4.8	0.58	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
cis-1,3-Dichloropropene	0.58	U	4.8	0.58	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Cymene	0.31	U	4.8	0.31	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Dibromochloromethane	0.40	U	4.8	0.40	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Dibromomethane	0.94	U	4.8	0.94	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,2-Dichlorobenzene	0.27	U	4.8	0.27	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,3-Dichlorobenzene	0.27	U	4.8	0.27	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,4-Dichlorobenzene	0.58	U	4.8	0.58	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Dichlorodifluoromethane	1.3	U	9.7	1.3	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,1-Dichloroethane	0.38	U	4.8	0.38	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,2-Dichloroethane	0.84	U	4.8	0.84	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,1-Dichloroethene	1.6	U	4.8	1.6	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,2-Dichloropropane	0.37	U	4.8	0.37	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,3-Dichloropropane	0.31	U	4.8	0.31	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
2,2-Dichloropropane	0.52	U *	4.8	0.52	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,1-Dichloropropene	0.29	U	4.8	0.29	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Ethanol	59	U	240	59	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Ethylbenzene	0.29	U	4.8	0.29	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
2-Hexanone	1.7	U	19	1.7	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Isopropylbenzene	0.25	U	4.8	0.25	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Methylene Chloride	1.5	U	4.8	1.5	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Methyl iodide	1.5	U	4.8	1.5	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
4-Methyl-2-pentanone (MIBK)	0.71	U	19	0.71	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Methyl tert-butyl ether	0.46	U	4.8	0.46	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
m-Xylene & p-Xylene	0.55	U	4.8	0.55	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Naphthalene	0.47	U	4.8	0.47	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
n-Butylbenzene	0.58	U	4.8	0.58	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
N-Propylbenzene	0.31	U	4.8	0.31	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
o-Xylene	0.33	U	4.8	0.33	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
sec-Butylbenzene	0.30	U	4.8	0.30	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Styrene	0.34	U	4.8	0.34	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
tert-Butylbenzene	0.30	U	4.8	0.30	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,1,1,2-Tetrachloroethane	0.34	U	4.8	0.34	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,1,2,2-Tetrachloroethane	0.39	U	4.8	0.39	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Tetrachloroethene	**1.8**	**J B**	4.8	0.31	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Toluene	0.68	U	4.8	0.68	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
trans-1,2-Dichloroethene	0.91	U	4.8	0.91	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
trans-1,3-Dichloropropene	0.34	U	4.8	0.34	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,2,3-Trichlorobenzene	0.43	U	4.8	0.43	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,2,4-Trichlorobenzene	0.42	U	4.8	0.42	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,1,1-Trichloroethane	0.42	U	4.8	0.42	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,1,2-Trichloroethane	0.55	U	4.8	0.55	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Trichloroethene	0.38	U	4.8	0.38	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Trichlorofluoromethane	0.48	U	4.8	0.48	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,2,3-Trichloropropane	0.54	U	4.8	0.54	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,2,4-Trimethylbenzene	0.58	U	4.8	0.58	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
1,3,5-Trimethylbenzene	0.30	U	4.8	0.30	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1

Client Sample ID: RD-B-1_SUB

Lab Sample ID: 680-96898-7

Date Collected: 12/05/13 09:00
Date Received: 12/07/13 10:10

Matrix: Solid
Percent Solids: 94.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	0.75	U	4.8	0.75	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Vinyl chloride	0.42	U	4.8	0.42	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1
Xylenes, Total	0.82	U	9.7	0.82	ug/Kg	☼	12/08/13 07:30	12/08/13 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*63 - 150*	*12/08/13 07:30*	*12/08/13 14:28*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 126*	*12/08/13 07:30*	*12/08/13 14:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*124*		*72 - 127*	*12/08/13 07:30*	*12/08/13 14:28*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*	*12/08/13 07:30*	*12/08/13 14:28*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	11	U	340	11	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Acenaphthylene	17	U	340	17	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Acetophenone	21	U	340	21	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Aniline	130	U	340	130	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Anthracene	17	U	340	17	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Azobenzene	23	U	340	23	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Benzo[a]anthracene	21	U	340	21	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Benzo[a]pyrene	21	U	340	21	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Benzo[b]fluoranthene	27	U	340	27	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Benzo[g,h,i]perylene	16	U	340	16	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Benzoic acid	340	U	1600	340	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Benzo[k]fluoranthene	41	U	340	41	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Benzyl alcohol	10	U	340	10	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Bis(2-chloroethoxy)methane	24	U	340	24	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Bis(2-chloroethyl)ether	17	U	340	17	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Bis(2-ethylhexyl) phthalate	47	U	340	47	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
4-Bromophenyl phenyl ether	20	U	340	20	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Butyl benzyl phthalate	44	U	340	44	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Carbazole	37	U	340	37	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
4-Chloroaniline	84	U	340	84	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
4-Chloro-3-methylphenol	68	U	340	68	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2-Chloronaphthalene	10	U	340	10	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2-Chlorophenol	22	U	340	22	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
4-Chlorophenyl phenyl ether	22	U	340	22	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Chrysene	28	U	340	28	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Dibenz(a,h)anthracene	20	U	340	20	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Dibenzofuran	21	U	340	21	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
3,3'-Dichlorobenzidine	93	U	680	93	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2,4-Dichlorophenol	10	U	340	10	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Diethyl phthalate	27	U	680	27	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2,4-Dimethylphenol	68	U	340	68	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Dimethyl phthalate	**160**	**J**	340	24	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Di-n-butyl phthalate	30	U	340	30	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2,4-Dinitrophenol	340	U	1600	340	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2,4-Dinitrotoluene	68	U	340	68	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2,6-Dinitrotoluene	29	U	340	29	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Di-n-octyl phthalate	15	U	340	15	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
1,4-Dioxane	68	U	680	68	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1

Client Sample ID: RD-B-1_SUB

Lab Sample ID: 680-96898-7
Date Collected: 12/05/13 09:00
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 94.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenyl-hydrazine	23	U	340	23	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Fluoranthene	37	U	340	37	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Fluorene	19	U	340	19	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Hexachlorobenzene	30	U	340	30	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Hexachlorobutadiene	10	U	340	10	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Hexachlorocyclopentadiene	51	U	1600	51	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Hexachloroethane	22	U	340	22	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Indeno[1,2,3-cd]pyrene	23	U	340	23	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Isophorone	17	U	340	17	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2-Methylnaphthalene	20	U	340	20	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
3 & 4 Methylphenol	34	U	340	34	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Naphthalene	32	U	340	32	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2-Nitroaniline	51	U	1600	51	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
3-Nitroaniline	75	U	1600	75	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
4-Nitroaniline	75	U	1600	75	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Nitrobenzene	23	U	340	23	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2-Nitrophenol	10	U	340	10	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
4-Nitrophenol	100	U	1600	100	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
N-Nitrosodi-n-propylamine	32	U	340	32	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
n-Nitrosodiphenylamine(as diphenylamine)	22	U	340	22	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2,2'-oxybis[1-chloropropane]	24	U	340	24	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Pentachlorobenzene	67	U	340	67	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Pentachlorophenol	340	U	1600	340	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Phenanthrene	17	U	340	17	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Phenol	19	U	340	19	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Phthalic acid	780	U	2600	780	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
Pyrene	12	U	340	12	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
1,2,4,5-Tetrachlorobenzene	50	U	340	50	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2,4,5-Trichlorophenol	10	U	340	10	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1
2,4,6-Trichlorophenol	10	U	340	10	ug/Kg	☼	12/11/13 18:54	12/16/13 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*50 - 120*	*12/11/13 18:54*	*12/16/13 18:13*	*1*
2-Fluorophenol	*81*		*53 - 120*	*12/11/13 18:54*	*12/16/13 18:13*	*1*
Nitrobenzene-d5	*83*		*50 - 120*	*12/11/13 18:54*	*12/16/13 18:13*	*1*
Phenol-d5	*82*		*52 - 120*	*12/11/13 18:54*	*12/16/13 18:13*	*1*
Terphenyl-d14	*87*		*55 - 120*	*12/11/13 18:54*	*12/16/13 18:13*	*1*
2,4,6-Tribromophenol	*81*		*51 - 120*	*12/11/13 18:54*	*12/16/13 18:13*	*1*

Client Sample ID: SC-SS-1_SS

Lab Sample ID: 680-96898-8
Date Collected: 12/06/13 12:20
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 93.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		95	67	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Antimony	3.0	U	4.8	3.0	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Barium	**230**		24	1.2	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Beryllium	0.80	U	2.4	0.80	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5

Client Sample ID: SC-SS-1_SS

Lab Sample ID: 680-96898-8
Date Collected: 12/06/13 12:20
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 93.7

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.48	U	2.4	0.48	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Calcium	33000		1200	63	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Chromium	33		4.8	1.5	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Cobalt	12	J	24	4.5	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Copper	27		12	3.5	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Iron	18000		48	14	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Lead	27		4.8	0.82	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Magnesium	11000		480	40	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Manganese	1400		4.8	0.73	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Nickel	19		19	1.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Potassium	2100	J	2400	1600	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Selenium	1.4	U	7.1	1.4	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Silver	1.1	U	4.8	1.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Sodium	29000		950	450	mg/Kg	☼	12/27/13 10:26	01/15/14 16:26	10
Titanium	1200		9.5	3.0	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Vanadium	83		24	6.0	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5
Zinc	98		24	9.4	mg/Kg	☼	12/27/13 10:26	01/09/14 23:17	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.7	J	4.8	1.2	mg/Kg	☼	12/27/13 10:30	12/31/13 03:15	10
Niobium	7.8	J	12	1.8	mg/Kg	☼	12/27/13 10:30	12/31/13 03:15	10
Thallium	0.72	U	2.4	0.72	mg/Kg	☼	12/27/13 10:30	12/31/13 03:15	10
Uranium	1.7		0.48	0.095	mg/Kg	☼	12/27/13 10:30	12/31/13 03:15	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.034	0.011	mg/Kg	☼	12/09/13 13:42	12/11/13 13:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.5	H	0.21	0.043	mg/Kg	☼		01/13/14 15:01	1

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	6500	H	530	53	mg/Kg	☼		01/13/14 15:33	100

General Chemistry - Soluble - DL3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13000	H	2100	210	mg/Kg	☼		01/13/14 21:39	1000

Client Sample ID: SC-SS-1_DUP

Lab Sample ID: 680-96898-9
Date Collected: 12/06/13 12:20
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 92.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		100	71	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Antimony	3.3	U	5.1	3.3	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Barium	200		25	1.3	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Beryllium	0.86	U	2.5	0.86	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5

Client Sample ID: SC-SS-1_DUP

Lab Sample ID: 680-96898-9
Date Collected: 12/06/13 12:20
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 92.7

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.51	U	2.5	0.51	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Calcium	25000		1300	68	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Chromium	24		5.1	1.6	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Cobalt	11	J	25	4.8	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Copper	26		13	3.7	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Iron	16000		51	15	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Lead	18		5.1	0.87	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Magnesium	11000		510	42	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Manganese	1200		5.1	0.78	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Nickel	18	J	20	1.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Potassium	1900	J	2500	1700	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Selenium	1.5	U	7.6	1.5	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Silver	1.2	U	5.1	1.2	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Sodium	27000		1000	480	mg/Kg	☼	12/27/13 10:26	01/15/14 16:41	10
Titanium	1100		10	3.2	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Vanadium	71		25	6.4	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5
Zinc	100		25	10	mg/Kg	☼	12/27/13 10:26	01/09/14 23:32	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.7	J	5.1	1.3	mg/Kg	☼	12/27/13 10:30	12/31/13 03:56	10
Niobium	8.2	J	13	1.9	mg/Kg	☼	12/27/13 10:30	12/31/13 03:56	10
Thallium	0.77	U	2.5	0.77	mg/Kg	☼	12/27/13 10:30	12/31/13 03:56	10
Uranium	1.9		0.51	0.10	mg/Kg	☼	12/27/13 10:30	12/31/13 03:56	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	J	0.032	0.011	mg/Kg	☼	12/09/13 13:42	12/11/13 13:34	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.4	H	0.21	0.043	mg/Kg	☼		01/13/14 17:56	1

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	12000	H	540	54	mg/Kg	☼		01/13/14 18:28	100

General Chemistry - Soluble - DL3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17000	H	2100	210	mg/Kg	☼		01/14/14 15:44	1000

Client Sample ID: SC-SS-2_SS

Lab Sample ID: 680-96898-10
Date Collected: 12/06/13 12:45
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 86.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8600		110	79	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Antimony	3.6	U	5.6	3.6	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Barium	270		28	1.4	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Beryllium	1.9	U	5.6	1.9	mg/Kg	☼	12/27/13 10:26	01/15/14 16:45	10

Client Sample ID: SC-SS-2_SS

Lab Sample ID: 680-96898-10
Date Collected: 12/06/13 12:45
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 86.6

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.56	J	2.8	0.56	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Calcium	30000		1400	75	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Chromium	42		5.6	1.7	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Cobalt	23	J	56	11	mg/Kg	☼	12/27/13 10:26	01/15/14 16:45	10
Copper	74		14	4.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Iron	13000		56	17	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Lead	38		5.6	0.97	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Magnesium	11000		560	47	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Manganese	3100		5.6	0.86	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Nickel	40		22	1.3	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Potassium	1900	U	2800	1900	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Selenium	1.6	U	8.4	1.6	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Silver	1.3	U	5.6	1.3	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Sodium	23000		1100	530	mg/Kg	☼	12/27/13 10:26	01/15/14 16:45	10
Titanium	6900		22	7.1	mg/Kg	☼	12/27/13 10:26	01/15/14 16:45	10
Vanadium	110		28	7.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5
Zinc	430		28	11	mg/Kg	☼	12/27/13 10:26	01/09/14 23:36	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.1	J	5.6	1.5	mg/Kg	☼	12/27/13 10:30	12/31/13 04:03	10
Niobium	37		14	2.1	mg/Kg	☼	12/27/13 10:30	12/31/13 04:03	10
Thallium	0.85	U	2.8	0.85	mg/Kg	☼	12/27/13 10:30	12/31/13 04:03	10
Uranium	1.5		0.56	0.11	mg/Kg	☼	12/27/13 10:30	12/31/13 04:03	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026	J	0.036	0.012	mg/Kg	☼	12/09/13 13:42	12/11/13 13:36	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	2.5	H	0.23	0.046	mg/Kg	☼		01/13/14 18:44	1

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	7500	H	570	57	mg/Kg	☼		01/13/14 19:15	100

General Chemistry - Soluble - DL3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11000	H	2300	230	mg/Kg	☼		01/14/14 16:00	1000

Client Sample ID: P-B-12_SHALLOW

Lab Sample ID: 680-96898-11
Date Collected: 12/05/13 14:30
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 94.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Acenaphthylene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Anthracene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Benzo[a]anthracene	87	J	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1

Client Sample ID: P-B-12_SHALLOW

Lab Sample ID: 680-96898-11

Date Collected: 12/05/13 14:30
Date Received: 12/07/13 10:10

Matrix: Solid
Percent Solids: 94.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	110	J	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Benzo[k]fluoranthene	38	J	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Benzo[g,h,i]perylene	58	J	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Benzo[a]pyrene	60	J	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Chrysene	110	J	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Dibenz(a,h)anthracene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Fluoranthene	160	J	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Fluorene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Indeno[1,2,3-cd]pyrene	55	J	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Naphthalene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Phenanthrene	35	U	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1
Pyrene	130	J	350	35	ug/Kg	☼	12/18/13 11:29	12/19/13 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*79*		*53 - 97*	*12/18/13 11:29*	*12/19/13 00:21*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*46 - 111*	*12/18/13 11:29*	*12/19/13 00:21*	*1*
Nitrobenzene-d5 (Surr)	*70*		*55 - 98*	*12/18/13 11:29*	*12/19/13 00:21*	*1*
Phenol-d5 (Surr)	*75*		*54 - 101*	*12/18/13 11:29*	*12/19/13 00:21*	*1*
Terphenyl-d14 (Surr)	*78*		*58 - 123*	*12/18/13 11:29*	*12/19/13 00:21*	*1*
2-Fluorobiphenyl (Surr)	*73*		*56 - 97*	*12/18/13 11:29*	*12/19/13 00:21*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	96	B	42	2.3	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-2	89		42	2.0	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-3	210		42	1.8	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-4	180	q	42	32	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-5	29	J	42	19	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-6	150		42	19	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-7	19	J	42	18	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-8	370		42	19	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-9	29	J	42	20	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-10	18	U	42	18	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-11	200		42	20	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-12/13	430		84	20	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-14	31	J	42	17	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-15	1200		42	19	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-16	200		42	3.7	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-17	170	B	42	2.6	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-18/30	370	B	84	2.2	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-19	56		42	3.6	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-20/28	1400	B	84	45	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-21/33	490	B	84	42	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-22	460	G	48	48	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-23	41	U	42	41	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-24	38	J	42	1.9	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-25	160	G	43	43	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-26/29	270		84	43	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-27	49		42	1.9	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-31	1300	B	42	42	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1

Client Sample ID: P-B-12_SHALLOW

Lab Sample ID: 680-96898-11

Date Collected: 12/05/13 14:30
Date Received: 12/07/13 10:10

Matrix: Solid
Percent Solids: 94.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-32	140		42	1.5	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-34	48	G	43	43	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-35	280	G	50	50	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-36	160	G	44	44	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-37	970	G	50	50	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-38	47	U G	47	47	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-39	200	G	44	44	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-40/71	2200	B	84	34	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-41	160	G	45	45	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-42	1000		42	38	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-43	160		42	39	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-44/47/65	11000	B	130	33	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-45	290		42	39	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-46	120		42	41	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-48	600		42	35	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-49/69	5500	B	84	29	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-50/53	570		84	32	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-51	94		42	32	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-52	29000	E B	42	36	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-54	11	J	42	0.92	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-55	150	U G	150	150	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-56	3500	G	170	170	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-57	150	U G	150	150	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-58	150	U G	150	150	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-59/62/75	480		130	25	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-60	1600	G	160	160	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-61/70/74/76	28000	E B	170	150	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-63	350	G	140	140	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-64	3400	B	42	24	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-66	9600	E B G	170	170	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-67	180	G	140	140	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-68	130	U G	130	130	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-72	150	U G	150	150	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-73	53		42	27	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-77	850	G	170	170	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-78	170	U G	170	170	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-79	1100	G	150	150	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-80	140	U G	140	140	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-81	160	U G	160	160	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-82	6400	E G	740	740	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-83	1700	G	810	810	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-84	12000	E G	670	670	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-85/116/117	9300	G	500	500	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-86/87/97/108/119/125	35000	E G	510	510	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-88/91	5400	G	570	570	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-89	640	U G	640	640	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-90/101/113	52000	E B G	510	510	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-92	8300	E G	600	600	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-93/100	570	U G	570	570	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1

Client Sample ID: P-B-12_SHALLOW

Lab Sample ID: 680-96898-11

Date Collected: 12/05/13 14:30
Date Received: 12/07/13 10:10

Matrix: Solid
Percent Solids: 94.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-107/124	**1900**	**G**	470	470	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-94	600	U G	600	600	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-95	**35000**	**E B G**	560	560	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-96	**150**		42	0.95	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-98/102	**560**	**G**	530	530	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-99	**27000**	**E G**	600	600	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-103	530	U G	530	530	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-104	**29**	**J**	42	1.1	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-105	**26000**	**E G**	520	520	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-106	510	U G	510	510	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-110/115	**64000**	**E B G**	460	460	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-109	**3300**	**G**	440	440	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-111	420	U G	420	420	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-112	400	U G	400	400	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-114	**1100**	**G**	490	490	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-118	**57000**	**E B G**	480	480	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-120	440	U G	440	440	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-121	410	U G	410	410	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-122	520	U G	520	520	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-123	**770**	**G**	480	480	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-126	600	U G	600	600	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-127	510	U G	510	510	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-128/166	**9800**	**E G**	160	160	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-129/138/163	**59000**	**E B G**	170	170	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-130	**3600**	**G**	220	220	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-131	**740**	**G**	210	210	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-132	**17000**	**E G**	190	190	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-133	**610**	**G**	190	190	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-134/143	**2300**	**G**	200	200	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-135/151	**12000**	**E G**	170	170	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-136	**4800**	**E G**	130	130	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-137	**3000**	**G**	170	170	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-139/140	**1000**	**G**	160	160	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-141	**9600**	**E G**	180	180	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-142	190	U G	190	190	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-144	**2000**	**G**	170	170	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-145	120	U G	120	120	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-146	**6700**	**E G**	180	180	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-147/149	**33000**	**E G**	170	170	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-148	170	U G	170	170	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-150	110	U G	110	110	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-152	120	U G	120	120	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-153/168	**40000**	**E G**	140	140	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-154	**420**	**G**	150	150	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-155	130	U G	130	130	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-156/157	**9300**	**E G**	88	88	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-158	**6100**	**E G**	130	130	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-159	**450**	**G**	72	72	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-160	150	U G	150	150	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1

Client Sample ID: P-B-12_SHALLOW

Lab Sample ID: 680-96898-11

Date Collected: 12/05/13 14:30
Date Received: 12/07/13 10:10

Matrix: Solid
Percent Solids: 94.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-161	130	U G	130	130	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-162	540	G	70	70	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-164	3900	G	140	140	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-165	150	U G	150	150	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-167	2900	G	67	67	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-169	120	q G	83	83	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-170	14000	E G	59	59	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-171/173	5000		84	54	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-172	2700	G	56	56	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-174	13000	E G	55	55	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-175	1000		42	9.6	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-176	1400		42	6.4	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-177	3400	q G	56	56	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-178	2000		42	10	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-179	3800		42	7.0	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-180/193	30000	E	84	45	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-181	330	G	46	46	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-182	370		42	8.9	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-183	6900	E	42	41	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-184	640		42	7.2	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-185	1500	G	50	50	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-186	97		42	6.8	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-187	12000	E	42	9.3	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-188	350		42	7.0	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-189	1000	G	12	12	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-190	3000		42	42	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-191	840		42	40	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-192	190		42	42	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-194	6300	E	42	42	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-195	2100		42	39	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-196	4800	E G	58	58	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-197	1800		42	38	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-198/199	11000	E	84	60	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-200	1100		42	39	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-201	2300		42	39	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-202	2200		42	42	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-203	5200	E G	53	53	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-204	1100		42	40	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-205	1300		42	33	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-206	22000	E G	43	43	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-207	11000	E	42	29	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-208	14000	E	42	32	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
PCB-209	510000	E B	42	24	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
Total Monochlorobiphenyls	400	J B	420	2.0	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
Total Dichlorobiphenyls	2600	q	420	20	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
Total Trichlorobiphenyls	6800	B	420	30	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
Total Tetrachlorobiphenyls	100000	B	420	92	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
Total Pentachlorobiphenyls	350000	B G	500	500	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
Total Hexachlorobiphenyls	230000	B q	420	150	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1

Client Sample ID: P-B-12_SHALLOW

Lab Sample ID: 680-96898-11

Date Collected: 12/05/13 14:30
Date Received: 12/07/13 10:10

Matrix: Solid
Percent Solids: 94.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Heptachlorobiphenyls	100000	q	420	30	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
Total Octachlorobiphenyls	39000		420	44	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
Total Nonachlorobiphenyls	47000		420	35	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1
Polychlorinated biphenyls, Total	1400000	B q	420	93	pg/g	☼	01/09/14 14:14	02/05/14 07:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*37*		*5 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-15L	*54*		*5 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-123L	*63*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-114L	*62*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-202L	*65*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-3L	*41*		*5 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-118L	*64*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-126L	*68*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-206L	*55*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-169L	*63*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-37L	*63*		*5 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-19L	*50*		*5 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-188L	*59*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-54L	*40*		*5 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-156L/157L	*62*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-167L	*62*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-209L	*46*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-189L	*62*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-105L	*64*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-208L	*64*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-1L	*35*		*5 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-104L	*47*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-81L	*70*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-77L	*70*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-205L	*57*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-155L	*50*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*78*		*5 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-111L	*91*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*
PCB-178L	*84*		*10 - 145*	*01/09/14 14:14*	*02/05/14 07:25*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	31		2.1	0.26	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
1,2,3,7,8-PeCDD	91		10	1.4	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
1,2,3,7,8-PeCDF	1200		10	5.1	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
2,3,4,7,8-PeCDF	670		10	5.3	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
1,2,3,4,7,8-HxCDD	62		10	0.27	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
1,2,3,6,7,8-HxCDD	140		10	0.24	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
1,2,3,7,8,9-HxCDD	130		10	0.22	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
1,2,3,4,7,8-HxCDF	2800	B	10	4.0	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
1,2,3,6,7,8-HxCDF	1700	B	10	3.4	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
1,2,3,7,8,9-HxCDF	240		10	4.0	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
2,3,4,6,7,8-HxCDF	550		10	3.7	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1

Client Sample ID: P-B-12_SHALLOW

Lab Sample ID: 680-96898-11

Date Collected: 12/05/13 14:30
Date Received: 12/07/13 10:10

Matrix: Solid
Percent Solids: 94.7

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	510	B	10	0.90	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
1,2,3,4,7,8,9-HpCDF	2900		10	4.7	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1
OCDD	810	B	21	0.26	pg/g	☼	01/03/14 14:52	01/10/14 18:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDD	*68*		*40 - 135*	*01/03/14 14:52*	*01/10/14 18:04*	*1*
13C-2,3,7,8-TCDD	*60*		*40 - 135*	*01/03/14 14:52*	*01/10/14 18:04*	*1*
13C-1,2,3,7,8-PeCDD	*60*		*40 - 135*	*01/03/14 14:52*	*01/10/14 18:04*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*64*		*40 - 135*	*01/03/14 14:52*	*01/10/14 18:04*	*1*
13C-1,2,3,7,8-PeCDF	*62*		*40 - 135*	*01/03/14 14:52*	*01/10/14 18:04*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*63*		*40 - 135*	*01/03/14 14:52*	*01/10/14 18:04*	*1*
13C-OCDD	*66*		*40 - 135*	*01/03/14 14:52*	*01/10/14 18:04*	*1*
13C-1,2,3,4,7,8-HxCDF	*63*		*40 - 135*	*01/03/14 14:52*	*01/10/14 18:04*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDF	7200	B	310	62	pg/g	☼	01/03/14 14:52	01/24/14 06:19	30
OCDF	89000	B	630	380	pg/g	☼	01/03/14 14:52	01/24/14 06:19	30

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDF	*54*		*40 - 135*	*01/03/14 14:52*	*01/24/14 06:19*	*30*
13C-OCDD	*47*		*40 - 135*	*01/03/14 14:52*	*01/24/14 06:19*	*30*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	720	G	12	12	pg/g	☼	01/03/14 14:52	01/15/14 17:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*63*		*40 - 135*	*01/03/14 14:52*	*01/15/14 17:51*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		93	65	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Antimony	3.0	U	4.7	3.0	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Barium	310		23	1.2	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Beryllium	0.79	U	2.3	0.79	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Cadmium	0.47	U	2.3	0.47	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Calcium	20000		1200	62	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Chromium	230		4.7	1.4	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Cobalt	8.8	J	23	4.4	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Copper	55		12	3.4	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Iron	14000		47	14	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Lead	110		4.7	0.80	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Magnesium	10000		470	39	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Manganese	2300		4.7	0.72	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Nickel	29		19	1.0	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Potassium	3100		2300	1600	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Selenium	1.3	U	7.0	1.3	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Silver	1.2	J	4.7	1.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Sodium	1100		930	440	mg/Kg	☼	12/27/13 10:26	01/16/14 14:33	10
Titanium	1500		9.3	2.9	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5
Vanadium	520		23	5.9	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: P-B-12_SHALLOW

Lab Sample ID: 680-96898-11

Date Collected: 12/05/13 14:30
Date Received: 12/07/13 10:10

Matrix: Solid
Percent Solids: 94.7

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	120		23	9.2	mg/Kg	☼	12/27/13 10:26	01/09/14 23:40	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		4.7	1.2	mg/Kg	☼	12/27/13 10:30	12/31/13 04:09	10
Niobium	37		12	1.8	mg/Kg	☼	12/27/13 10:30	12/31/13 04:09	10
Thallium	0.71	U	2.3	0.71	mg/Kg	☼	12/27/13 10:30	12/31/13 04:09	10
Uranium	6.3		0.47	0.093	mg/Kg	☼	12/27/13 10:30	12/31/13 04:09	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060		0.032	0.011	mg/Kg	☼	12/09/13 13:42	12/11/13 13:38	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	16	H	4.2	0.85	mg/Kg	☼		01/13/14 19:47	20
Sulfate	590	H	110	11	mg/Kg	☼		01/13/14 19:47	20

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300	H	210	21	mg/Kg	☼		01/13/14 20:03	100

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	54.9		10.0	4.39	pCi/g		12/23/13 11:18	12/23/13 19:01	1
Gross Beta	44.0		10.0	3.55	pCi/g		12/23/13 11:18	12/23/13 19:01	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	2.08			0.366	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Bismuth-212	3.44			1.35	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Bismuth-214	1.88			0.258	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Bismuth-210M	-0.00941	U		0.146	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Cesium-134	0.0252	U		0.148	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Cesium-137	-0.0123	U		0.149	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Cobalt-57	0.0179	U		0.0839	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Cobalt-60	0.0269	U		0.102	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Lead-212	2.19			0.183	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Lead-214	1.96			0.256	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Potassium-40	26.3			0.886	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Protactinium-231	1.21	U		3.10	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Protactinium-234	-0.209	U		0.454	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Radium-224	1.15	U		2.57	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Thallium-208	0.780			0.103	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Thorium-227	0.242	U		2.34	pCi/g		12/23/13 16:53	01/14/14 21:59	1
Thorium-234	1.56	U		2.26	pCi/g		12/23/13 16:53	01/14/14 21:59	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	2.31		1.00	0.205	pCi/g		12/13/13 15:38	01/08/14 16:22	1

Client Sample ID: P-B-12_SHALLOW

Lab Sample ID: 680-96898-11
Date Collected: 12/05/13 14:30
Matrix: Solid
Date Received: 12/07/13 10:10

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	*112*	*X*	*40 - 110*	*12/13/13 15:38*	*01/08/14 16:22*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**1.90**		1.00	0.360	pCi/g		12/13/13 14:41	01/08/14 12:16	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	*112*	*X*	*40 - 110*	*12/13/13 14:41*	*01/08/14 12:16*	*1*
Y Carrier	*87.9*		*40 - 110*	*12/13/13 14:41*	*01/08/14 12:16*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**2.33**		1.00	0.124	pCi/g		01/10/14 14:41	01/18/14 16:41	1
Thorium-230	**3.16**		1.00	0.113	pCi/g		01/10/14 14:41	01/18/14 16:41	1
Thorium-232	**2.09**		1.00	0.0696	pCi/g		01/10/14 14:41	01/18/14 16:41	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	*67.8*		*30 - 110*	*01/10/14 14:41*	*01/18/14 16:41*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**2.52**		1.00	0.0723	pCi/g		01/10/14 14:41	01/17/14 20:37	1
Uranium-235/236	0.0643	U	1.00	0.0722	pCi/g		01/10/14 14:41	01/17/14 20:37	1
Uranium-238	**2.92**		1.00	0.0634	pCi/g		01/10/14 14:41	01/17/14 20:37	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	*86.7*		*30 - 110*	*01/10/14 14:41*	*01/17/14 20:37*	*1*

Client Sample ID: P-B-12_DEEP

Lab Sample ID: 680-96898-12
Date Collected: 12/05/13 14:40
Matrix: Solid
Date Received: 12/07/13 10:10
Percent Solids: 92.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		97	68	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Antimony	3.1	U	4.9	3.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Barium	**200**		24	1.2	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Beryllium	0.82	U	2.4	0.82	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Cadmium	0.49	U	2.4	0.49	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Calcium	**41000**		1200	65	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Chromium	**19**		4.9	1.5	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Cobalt	**8.0**	J	24	4.6	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Copper	**16**		12	3.5	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Iron	**14000**		49	14	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Lead	**9.1**		4.9	0.84	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Magnesium	**9800**		490	41	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Manganese	**500**		4.9	0.75	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Nickel	**28**		19	1.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Potassium	**2300**	J	2400	1600	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Selenium	1.4	U	7.3	1.4	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Silver	1.1	U	4.9	1.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Sodium	**820**	J	970	460	mg/Kg	☼	12/27/13 10:26	01/16/14 14:37	10

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: P-B-12_DEEP

Lab Sample ID: 680-96898-12

Date Collected: 12/05/13 14:40
Date Received: 12/07/13 10:10

Matrix: Solid
Percent Solids: 92.4

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Titanium	740		9.7	3.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Vanadium	89		24	6.1	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5
Zinc	36		24	9.7	mg/Kg	☼	12/27/13 10:26	01/09/14 23:44	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.3		4.9	1.3	mg/Kg	☼	12/27/13 10:30	12/31/13 04:16	10
Niobium	2.8	J	12	1.9	mg/Kg	☼	12/27/13 10:30	12/31/13 04:16	10
Thallium	0.74	U	2.4	0.74	mg/Kg	☼	12/27/13 10:30	12/31/13 04:16	10
Uranium	1.6		0.49	0.097	mg/Kg	☼	12/27/13 10:30	12/31/13 04:16	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.034	0.011	mg/Kg	☼	12/09/13 13:42	12/11/13 13:40	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	74	H	5.4	0.54	mg/Kg	☼		01/13/14 20:51	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	13	H	4.3	0.86	mg/Kg	☼		01/13/14 21:07	20
Chloride	970	H	43	4.3	mg/Kg	☼		01/13/14 21:07	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	22.4		10.0	3.87	pCi/g		12/23/13 11:24	12/23/13 19:01	1
Gross Beta	26.7		10.0	3.07	pCi/g		12/23/13 11:24	12/23/13 19:01	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	2.04			0.224	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Bismuth-212	2.06			0.796	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Bismuth-214	1.40			0.146	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Bismuth-210M	0.00754	U		0.118	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Cesium-134	0.0445	U		0.0738	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Cesium-137	-0.0316	U		0.118	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Cobalt-57	-0.00940	U		0.0594	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Cobalt-60	0.00931	U		0.0968	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Lead-212	1.59			0.128	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Lead-214	1.31			0.131	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Potassium-40	24.1			0.609	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Protactinium-231	0.678	U		2.43	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Protactinium-234	-0.0405	U		0.291	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Radium-224	1.79	U		1.98	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Thallium-208	0.592			0.0841	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Thorium-227	0.0211	U		1.57	pCi/g		12/23/13 16:53	01/14/14 22:00	1
Thorium-234	1.06	U		2.09	pCi/g		12/23/13 16:53	01/14/14 22:00	1

Client Sample ID: P-B-12_DEEP

Lab Sample ID: 680-96898-12
Date Collected: 12/05/13 14:40
Matrix: Solid
Date Received: 12/07/13 10:10

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	1.53		1.00	0.222	pCi/g		12/13/13 15:38	01/08/14 16:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*112*	*X*	*40 - 110*	*12/13/13 15:38*	*01/08/14 16:23*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	1.29		1.00	0.392	pCi/g		12/13/13 14:41	01/08/14 12:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*112*	*X*	*40 - 110*	*12/13/13 14:41*	*01/08/14 12:17*	*1*
Y Carrier	*84.1*		*40 - 110*	*12/13/13 14:41*	*01/08/14 12:17*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	1.97		1.00	0.0960	pCi/g		01/10/14 14:41	01/18/14 16:41	1
Thorium-230	1.66		1.00	0.0924	pCi/g		01/10/14 14:41	01/18/14 16:41	1
Thorium-232	1.47		1.00	0.0736	pCi/g		01/10/14 14:41	01/18/14 16:41	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*71.0*		*30 - 110*	*01/10/14 14:41*	*01/18/14 16:41*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	1.10		1.00	0.0877	pCi/g		01/10/14 14:41	01/17/14 20:37	1
Uranium-235/236	0.0240	U	1.00	0.0767	pCi/g		01/10/14 14:41	01/17/14 20:37	1
Uranium-238	1.30		1.00	0.0539	pCi/g		01/10/14 14:41	01/17/14 20:37	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*80.2*		*30 - 110*	*01/10/14 14:41*	*01/17/14 20:37*	*1*

Client Sample ID: RINSATE

Lab Sample ID: 680-96898-13
Date Collected: 12/06/13 12:30
Matrix: Water
Date Received: 12/07/13 10:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.7	U	20	6.7	ug/L			12/08/13 23:42	1
Acetonitrile	7.3	U	50	7.3	ug/L			12/08/13 23:42	1
Benzene	0.25	U	5.0	0.25	ug/L			12/08/13 23:42	1
Bromobenzene	0.33	U	5.0	0.33	ug/L			12/08/13 23:42	1
Chlorobromomethane	0.55	U	5.0	0.55	ug/L			12/08/13 23:42	1
Bromodichloromethane	0.25	U	5.0	0.25	ug/L			12/08/13 23:42	1
Bromoform	0.37	U	5.0	0.37	ug/L			12/08/13 23:42	1
Bromomethane	0.40	U	10	0.40	ug/L			12/08/13 23:42	1
2-Butanone (MEK)	0.39	U	20	0.39	ug/L			12/08/13 23:42	1
n-Butylbenzene	0.23	U	5.0	0.23	ug/L			12/08/13 23:42	1
sec-Butylbenzene	0.31	U	5.0	0.31	ug/L			12/08/13 23:42	1
tert-Butylbenzene	0.31	U	5.0	0.31	ug/L			12/08/13 23:42	1
Carbon disulfide	0.37	U	5.0	0.37	ug/L			12/08/13 23:42	1
Carbon tetrachloride	0.36	U	5.0	0.36	ug/L			12/08/13 23:42	1

Client Sample ID: RINSATE

Lab Sample ID: 680-96898-13

Date Collected: 12/06/13 12:30
Date Received: 12/07/13 10:10

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	0.38	U	5.0	0.38	ug/L			12/08/13 23:42	1
Dibromochloromethane	0.33	U	5.0	0.33	ug/L			12/08/13 23:42	1
Chloroethane	0.38	U	10	0.38	ug/L			12/08/13 23:42	1
Chloroform	0.15	U	5.0	0.15	ug/L			12/08/13 23:42	1
Chloromethane	0.55	U	10	0.55	ug/L			12/08/13 23:42	1
2-Chlorotoluene	0.34	U	5.0	0.34	ug/L			12/08/13 23:42	1
4-Chlorotoluene	0.31	U	5.0	0.31	ug/L			12/08/13 23:42	1
Dibromomethane	0.41	U	5.0	0.41	ug/L			12/08/13 23:42	1
1,2-Dichlorobenzene	0.28	U	5.0	0.28	ug/L			12/08/13 23:42	1
1,3-Dichlorobenzene	0.23	U	5.0	0.23	ug/L			12/08/13 23:42	1
1,4-Dichlorobenzene	0.35	U	5.0	0.35	ug/L			12/08/13 23:42	1
Dichlorodifluoromethane	0.45	U *	10	0.45	ug/L			12/08/13 23:42	1
1,1-Dichloroethane	0.39	U	5.0	0.39	ug/L			12/08/13 23:42	1
1,2-Dichloroethane	0.37	U	5.0	0.37	ug/L			12/08/13 23:42	1
cis-1,2-Dichloroethene	0.16	U	5.0	0.16	ug/L			12/08/13 23:42	1
trans-1,2-Dichloroethene	0.18	U	5.0	0.18	ug/L			12/08/13 23:42	1
1,1-Dichloroethene	0.37	U	5.0	0.37	ug/L			12/08/13 23:42	1
1,2-Dichloropropane	0.32	U	5.0	0.32	ug/L			12/08/13 23:42	1
1,3-Dichloropropane	0.24	U	5.0	0.24	ug/L			12/08/13 23:42	1
2,2-Dichloropropane	0.54	U	5.0	0.54	ug/L			12/08/13 23:42	1
cis-1,3-Dichloropropene	0.34	U	5.0	0.34	ug/L			12/08/13 23:42	1
trans-1,3-Dichloropropene	0.35	U	5.0	0.35	ug/L			12/08/13 23:42	1
1,1-Dichloropropene	0.30	U	5.0	0.30	ug/L			12/08/13 23:42	1
Ethylbenzene	0.30	U	5.0	0.30	ug/L			12/08/13 23:42	1
2-Hexanone	0.59	U	20	0.59	ug/L			12/08/13 23:42	1
Methyl iodide	1.5	U	5.0	1.5	ug/L			12/08/13 23:42	1
Isopropylbenzene	0.26	U	5.0	0.26	ug/L			12/08/13 23:42	1
Cymene	0.32	U	5.0	0.32	ug/L			12/08/13 23:42	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			12/08/13 23:42	1
4-Methyl-2-pentanone (MIBK)	0.33	U	20	0.33	ug/L			12/08/13 23:42	1
Methyl tert-butyl ether	0.40	U	5.0	0.40	ug/L			12/08/13 23:42	1
Naphthalene	0.85	U	5.0	0.85	ug/L			12/08/13 23:42	1
N-Propylbenzene	0.30	U	5.0	0.30	ug/L			12/08/13 23:42	1
Styrene	0.35	U	5.0	0.35	ug/L			12/08/13 23:42	1
1,1,1,2-Tetrachloroethane	0.25	U	5.0	0.25	ug/L			12/08/13 23:42	1
1,1,2,2-Tetrachloroethane	0.43	U	5.0	0.43	ug/L			12/08/13 23:42	1
Tetrachloroethene	0.28	U	5.0	0.28	ug/L			12/08/13 23:42	1
Toluene	**1.0**	**J**	5.0	1.0	ug/L			12/08/13 23:42	1
1,2,3-Trichlorobenzene	0.65	U	5.0	0.65	ug/L			12/08/13 23:42	1
1,2,4-Trichlorobenzene	0.55	U	5.0	0.55	ug/L			12/08/13 23:42	1
1,1,1-Trichloroethane	0.29	U	5.0	0.29	ug/L			12/08/13 23:42	1
1,1,2-Trichloroethane	0.57	U	5.0	0.57	ug/L			12/08/13 23:42	1
Trichloroethene	0.29	U	5.0	0.29	ug/L			12/08/13 23:42	1
Trichlorofluoromethane	0.22	U	5.0	0.22	ug/L			12/08/13 23:42	1
1,2,3-Trichloropropane	0.56	U	5.0	0.56	ug/L			12/08/13 23:42	1
1,2,4-Trimethylbenzene	0.40	U	5.0	0.40	ug/L			12/08/13 23:42	1
1,3,5-Trimethylbenzene	0.28	U	5.0	0.28	ug/L			12/08/13 23:42	1
Vinyl acetate	0.61	U	5.0	0.61	ug/L			12/08/13 23:42	1
Vinyl chloride	0.43	U	5.0	0.43	ug/L			12/08/13 23:42	1

Client Sample ID: RINSATE

Lab Sample ID: 680-96898-13

Date Collected: 12/06/13 12:30
Date Received: 12/07/13 10:10

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.57	U	5.0	0.57	ug/L			12/08/13 23:42	1
o-Xylene	0.32	U	5.0	0.32	ug/L			12/08/13 23:42	1
Xylenes, Total	0.85	U	10	0.85	ug/L			12/08/13 23:42	1
Ethanol	130	U	250	130	ug/L			12/08/13 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*75 - 123*		*12/08/13 23:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*134*	*X*	*78 - 127*		*12/08/13 23:42*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*12/08/13 23:42*	*1*
Dibromofluoromethane (Surr)	*119*		*80 - 120*		*12/08/13 23:42*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.7	U	20	1.7	ug/L		12/11/13 18:50	12/17/13 21:37	1
Phenol	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 21:37	1
Aniline	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 21:37	1
2-Chlorophenol	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 21:37	1
Benzyl alcohol	0.23	U	10	0.23	ug/L		12/11/13 18:50	12/17/13 21:37	1
3 & 4 Methylphenol	0.25	U	10	0.25	ug/L		12/11/13 18:50	12/17/13 21:37	1
Acetophenone	0.24	U	10	0.24	ug/L		12/11/13 18:50	12/17/13 21:37	1
N-Nitrosodi-n-propylamine	0.36	U	10	0.36	ug/L		12/11/13 18:50	12/17/13 21:37	1
Hexachloroethane	2.1	U	10	2.1	ug/L		12/11/13 18:50	12/17/13 21:37	1
Nitrobenzene	0.82	U	10	0.82	ug/L		12/11/13 18:50	12/17/13 21:37	1
Isophorone	0.21	U	10	0.21	ug/L		12/11/13 18:50	12/17/13 21:37	1
2,4-Dimethylphenol	0.59	U	10	0.59	ug/L		12/11/13 18:50	12/17/13 21:37	1
2-Nitrophenol	0.40	U	10	0.40	ug/L		12/11/13 18:50	12/17/13 21:37	1
Benzoic acid	10	U	25	10	ug/L		12/11/13 18:50	12/17/13 21:37	1
Bis(2-chloroethoxy)methane	0.99	U	10	0.99	ug/L		12/11/13 18:50	12/17/13 21:37	1
2,4-Dichlorophenol	0.65	U	10	0.65	ug/L		12/11/13 18:50	12/17/13 21:37	1
Naphthalene	0.30	U	4.1	0.30	ug/L		12/11/13 18:50	12/17/13 21:37	1
4-Chloroaniline	2.2	U	10	2.2	ug/L		12/11/13 18:50	12/17/13 21:37	1
Hexachlorobutadiene	3.4	U	10	3.4	ug/L		12/11/13 18:50	12/17/13 21:37	1
4-Chloro-3-methylphenol	2.5	U	10	2.5	ug/L		12/11/13 18:50	12/17/13 21:37	1
2-Methylnaphthalene	0.30	U	4.1	0.30	ug/L		12/11/13 18:50	12/17/13 21:37	1
1,2,4,5-Tetrachlorobenzene	1.8	U	10	1.8	ug/L		12/11/13 18:50	12/17/13 21:37	1
Hexachlorocyclopentadiene	10	U	51	10	ug/L		12/11/13 18:50	12/17/13 21:37	1
2,4,6-Trichlorophenol	0.30	U	10	0.30	ug/L		12/11/13 18:50	12/17/13 21:37	1
2,4,5-Trichlorophenol	0.46	U	10	0.46	ug/L		12/11/13 18:50	12/17/13 21:37	1
2-Chloronaphthalene	0.26	U	4.1	0.26	ug/L		12/11/13 18:50	12/17/13 21:37	1
2-Nitroaniline	1.8	U	10	1.8	ug/L		12/11/13 18:50	12/17/13 21:37	1
Dimethyl phthalate	0.21	U	4.1	0.21	ug/L		12/11/13 18:50	12/17/13 21:37	1
2,6-Dinitrotoluene	1.9	U	10	1.9	ug/L		12/11/13 18:50	12/17/13 21:37	1
Acenaphthylene	0.50	U	4.1	0.50	ug/L		12/11/13 18:50	12/17/13 21:37	1
3-Nitroaniline	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 21:37	1
Acenaphthene	0.29	U	4.1	0.29	ug/L		12/11/13 18:50	12/17/13 21:37	1
2,4-Dinitrophenol	10	U	31	10	ug/L		12/11/13 18:50	12/17/13 21:37	1
4-Nitrophenol	1.3	U	10	1.3	ug/L		12/11/13 18:50	12/17/13 21:37	1
Dibenzofuran	0.30	U	4.1	0.30	ug/L		12/11/13 18:50	12/17/13 21:37	1
2,4-Dinitrotoluene	1.7	U	10	1.7	ug/L		12/11/13 18:50	12/17/13 21:37	1
Pentachlorobenzene	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 21:37	1

Client Sample ID: RINSATE

Lab Sample ID: 680-96898-13

Date Collected: 12/06/13 12:30
Date Received: 12/07/13 10:10

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	0.39	U	4.1	0.39	ug/L		12/11/13 18:50	12/17/13 21:37	1
4-Chlorophenyl phenyl ether	1.7	U	10	1.7	ug/L		12/11/13 18:50	12/17/13 21:37	1
Fluorene	0.32	U	4.1	0.32	ug/L		12/11/13 18:50	12/17/13 21:37	1
4-Nitroaniline	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 21:37	1
n-Nitrosodiphenylamine(as diphenylamine)	0.45	U	10	0.45	ug/L		12/11/13 18:50	12/17/13 21:37	1
1,2-Diphenyl-hydrazine	0.23	U	10	0.23	ug/L		12/11/13 18:50	12/17/13 21:37	1
Azobenzene	0.23	U	4.1	0.23	ug/L		12/11/13 18:50	12/17/13 21:37	1
4-Bromophenyl phenyl ether	0.44	U	10	0.44	ug/L		12/11/13 18:50	12/17/13 21:37	1
Hexachlorobenzene	0.67	U	10	0.67	ug/L		12/11/13 18:50	12/17/13 21:37	1
Pentachlorophenol	20	U	51	20	ug/L		12/11/13 18:50	12/17/13 21:37	1
Phenanthrene	0.26	U	4.1	0.26	ug/L		12/11/13 18:50	12/17/13 21:37	1
Anthracene	0.43	U	4.1	0.43	ug/L		12/11/13 18:50	12/17/13 21:37	1
Carbazole	0.44	U	4.1	0.44	ug/L		12/11/13 18:50	12/17/13 21:37	1
Di-n-butyl phthalate	1.2	U	4.1	1.2	ug/L		12/11/13 18:50	12/17/13 21:37	1
Fluoranthene	0.20	U	4.1	0.20	ug/L		12/11/13 18:50	12/17/13 21:37	1
Pyrene	0.38	U	10	0.38	ug/L		12/11/13 18:50	12/17/13 21:37	1
Butyl benzyl phthalate	1.0	U	4.1	1.0	ug/L		12/11/13 18:50	12/17/13 21:37	1
Bis(2-ethylhexyl) phthalate	0.57	U	10	0.57	ug/L		12/11/13 18:50	12/17/13 21:37	1
3,3'-Dichlorobenzidine	2.0	U	51	2.0	ug/L		12/11/13 18:50	12/17/13 21:37	1
Benzo[a]anthracene	0.36	U	4.1	0.36	ug/L		12/11/13 18:50	12/17/13 21:37	1
Chrysene	0.55	U	4.1	0.55	ug/L		12/11/13 18:50	12/17/13 21:37	1
Di-n-octyl phthalate	0.36	U	4.1	0.36	ug/L		12/11/13 18:50	12/17/13 21:37	1
Benzo[b]fluoranthene	0.54	U	4.1	0.54	ug/L		12/11/13 18:50	12/17/13 21:37	1
Benzo[k]fluoranthene	0.47	U	4.1	0.47	ug/L		12/11/13 18:50	12/17/13 21:37	1
Benzo[a]pyrene	0.32	U	4.1	0.32	ug/L		12/11/13 18:50	12/17/13 21:37	1
Dibenz(a,h)anthracene	0.52	U	4.1	0.52	ug/L		12/11/13 18:50	12/17/13 21:37	1
Indeno[1,2,3-cd]pyrene	0.66	U	4.1	0.66	ug/L		12/11/13 18:50	12/17/13 21:37	1
Benzo[g,h,i]perylene	0.51	U	4.1	0.51	ug/L		12/11/13 18:50	12/17/13 21:37	1
Bis(2-chloroethyl)ether	0.42	U	10	0.42	ug/L		12/11/13 18:50	12/17/13 21:37	1
2,2'-oxybis[1-chloropropane]	0.29	U	10	0.29	ug/L		12/11/13 18:50	12/17/13 21:37	1
Phthalic acid	5.9	U	410	5.9	ug/L		12/11/13 18:50	12/17/13 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*80*		*41 - 117*	*12/11/13 18:50*	*12/17/13 21:37*	*1*
Phenol-d5	*83*		*46 - 120*	*12/11/13 18:50*	*12/17/13 21:37*	*1*
Nitrobenzene-d5	*84*		*52 - 113*	*12/11/13 18:50*	*12/17/13 21:37*	*1*
2-Fluorobiphenyl	*87*		*48 - 104*	*12/11/13 18:50*	*12/17/13 21:37*	*1*
2,4,6-Tribromophenol	*92*		*48 - 126*	*12/11/13 18:50*	*12/17/13 21:37*	*1*
Terphenyl-d14	*101*		*41 - 138*	*12/11/13 18:50*	*12/17/13 21:37*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	15	J	190	0.81	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-2	0.84	U	190	0.84	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-3	0.90	U	190	0.90	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-4	3.7	U	190	3.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-5	4.3	U	190	4.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-6	4.3	U	190	4.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-7	4.0	U	190	4.0	pg/L		12/17/13 10:53	01/31/14 04:52	1

Client Sample ID: RINSATE

Lab Sample ID: 680-96898-13

Date Collected: 12/06/13 12:30
Date Received: 12/07/13 10:10

Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-8	4.2	U	190	4.2	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-9	4.5	U	190	4.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-10	2.3	U	190	2.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-11	**15**	J q	190	4.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-12/13	4.5	U	380	4.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-14	3.7	U	190	3.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-15	4.6	U	190	4.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-16	**4.2**	J	190	3.2	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-17	2.3	U	190	2.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-18/30	**6.0**	J q	380	1.9	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-19	2.7	U	190	2.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-20/28	**8.2**	J B	380	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-21/33	**6.1**	J	380	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-22	1.8	U	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-23	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-24	1.7	U	190	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-25	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-26/29	1.6	U	380	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-27	1.7	U	190	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-31	**8.4**	J B	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-32	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-34	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-35	1.9	U	190	1.9	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-36	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-37	2.1	U	190	2.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-38	1.8	U	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-39	1.7	U	190	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-40/71	**4.9**	J q	380	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-41	1.8	U	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-42	**3.4**	J	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-43	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-44/47/65	**8.7**	J q B	570	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-45	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-46	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-48	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-49/69	**6.4**	J B	380	1.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-50/53	1.3	U	380	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-51	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-52	**21**	J B	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-54	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-55	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-56	**3.0**	J q	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-57	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-58	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-59/62/75	1.0	U	570	1.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-60	1.7	U	190	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-61/70/74/76	**13**	J q	760	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-63	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-64	**5.5**	J	190	0.94	pg/L		12/17/13 10:53	01/31/14 04:52	1

Client Sample ID: RINSATE

Lab Sample ID: 680-96898-13

Date Collected: 12/06/13 12:30
Date Received: 12/07/13 10:10

Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-66	**8.1**	**J B**	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-67	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-68	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-72	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-73	1.1	U	190	1.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-77	2.0	U	19	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-78	1.8	U	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-79	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-80	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-81	1.9	U	19	1.9	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-82	2.4	U	190	2.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-83	2.7	U	190	2.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-84	2.2	U	190	2.2	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-85/116/117	1.6	U	570	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-86/87/97/108/119/125	**6.7**	**J**	1100	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-88/91	1.9	U	380	1.9	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-89	2.1	U	190	2.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-90/101/113	**10**	**J B**	570	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-92	2.0	U	190	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-93/100	1.9	U	380	1.9	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-107/124	1.5	U	380	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-94	2.0	U	190	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-95	**8.4**	**J q B**	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-96	0.94	U	190	0.94	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-98/102	1.7	U	380	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-99	**2.7**	**J q**	190	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-103	1.7	U	190	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-104	0.93	U	190	0.93	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-105	**3.0**	**J**	19	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-106	1.7	U	190	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-110/115	**9.1**	**J B**	380	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-109	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-111	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-112	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-114	1.7	U	19	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-115	**9.1**	**J B**	380	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-118	**6.1**	**J B**	19	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-120	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-121	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-122	1.7	U	190	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-123	1.6	U	19	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-126	2.2	U	19	2.2	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-127	1.7	U	190	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-128/166	1.7	U	380	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-129/138/163	**5.5**	**J B**	570	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-130	2.3	U	190	2.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-131	2.1	U	190	2.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-132	2.0	U	190	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-133	2.0	U	190	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1

Client Sample ID: RINSATE

Lab Sample ID: 680-96898-13

Date Collected: 12/06/13 12:30
Date Received: 12/07/13 10:10

Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-134/143	2.0	U	380	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-135/151	1.8	U	380	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-136	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-137	1.8	U	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-139/140	1.7	U	380	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-141	1.9	U	190	1.9	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-142	2.0	U	190	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-144	1.8	U	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-145	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-146	1.9	U	190	1.9	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-147/149	**3.1**	**J q B**	380	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-148	1.8	U	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-150	1.2	U	190	1.2	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-152	1.2	U	190	1.2	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-153/168	**3.7**	**J B**	380	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-154	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-155	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-156/157	1.9	U	38	1.9	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-158	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-159	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-160	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-161	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-162	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-164	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-165	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-167	1.4	U	19	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-169	2.0	U	19	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-170	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-171/173	1.3	U	380	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-172	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-174	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-175	2.1	U	190	2.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-176	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-177	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-178	2.2	U	190	2.2	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-179	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-180/193	1.1	U	380	1.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-181	1.1	U	190	1.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-182	1.9	U	190	1.9	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-183	**1.7**	**J q**	190	0.97	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-184	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-185	1.2	U	190	1.2	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-186	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-187	2.0	U	190	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-188	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-189	2.3	U	19	2.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-190	0.98	U	190	0.98	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-191	0.94	U	190	0.94	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-192	0.98	U	190	0.98	pg/L		12/17/13 10:53	01/31/14 04:52	1

Client Sample ID: RINSATE

Lab Sample ID: 680-96898-13

Date Collected: 12/06/13 12:30
Date Received: 12/07/13 10:10

Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-194	2.0	U	190	2.0	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-195	1.8	U	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-196	1.7	U	190	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-197	1.1	U	190	1.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-198/199	1.7	U	380	1.7	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-200	1.1	U	190	1.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-201	1.1	U	190	1.1	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-202	1.3	U	190	1.3	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-203	1.5	U	190	1.5	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-204	1.2	U	190	1.2	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-205	1.4	U	190	1.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-206	2.4	U	190	2.4	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-207	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-208	1.8	U	190	1.8	pg/L		12/17/13 10:53	01/31/14 04:52	1
PCB-209	1.6	U	190	1.6	pg/L		12/17/13 10:53	01/31/14 04:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*49*		*5 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-3L	*57*		*5 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-4L	*57*		*5 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-15L	*71*		*5 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-19L	*59*		*5 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-37L	*68*		*5 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-54L	*49*		*5 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-77L	*75*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-81L	*73*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-104L	*57*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-105L	*72*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-114L	*72*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-118L	*74*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-123L	*73*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-126L	*72*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-155L	*62*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-156L/157L	*79*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-167L	*79*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-169L	*76*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-188L	*66*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-189L	*74*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-202L	*77*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-205L	*84*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-206L	*74*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-208L	*87*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-209L	*79*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*77*		*5 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-111L	*81*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*
PCB-178L	*86*		*10 - 145*	*12/17/13 10:53*	*01/31/14 04:52*	*1*

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: RINSATE

Lab Sample ID: 680-96898-13

Date Collected: 12/06/13 12:30
Date Received: 12/07/13 10:10

Matrix: Water

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.15	U	9.8	0.15	pg/L		12/16/13 16:32	01/10/14 03:53	1
2,3,7,8-TCDF	0.091	U	9.8	0.091	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,7,8-PeCDD	0.20	U	49	0.20	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,7,8-PeCDF	0.14	U	49	0.14	pg/L		12/16/13 16:32	01/10/14 03:53	1
2,3,4,7,8-PeCDF	0.14	U	49	0.14	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,4,7,8-HxCDD	0.12	U	49	0.12	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,6,7,8-HxCDD	0.11	U	49	0.11	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,7,8,9-HxCDD	0.099	U	49	0.099	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,4,7,8-HxCDF	**0.42**	**J q B**	49	0.095	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,6,7,8-HxCDF	0.19	U	49	0.19	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,7,8,9-HxCDF	0.097	U	49	0.097	pg/L		12/16/13 16:32	01/10/14 03:53	1
2,3,4,6,7,8-HxCDF	0.090	U	49	0.090	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,4,6,7,8-HpCDD	**0.87**	**J B**	49	0.17	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,4,6,7,8-HpCDF	**1.3**	**J B**	49	0.14	pg/L		12/16/13 16:32	01/10/14 03:53	1
1,2,3,4,7,8,9-HpCDF	0.16	U	49	0.16	pg/L		12/16/13 16:32	01/10/14 03:53	1
OCDD	**9.0**	**J B**	98	0.16	pg/L		12/16/13 16:32	01/10/14 03:53	1
OCDF	**2.1**	**J q B**	98	0.15	pg/L		12/16/13 16:32	01/10/14 03:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*84*		*40 - 135*	*12/16/13 16:32*	*01/10/14 03:53*	*1*
13C-2,3,7,8-TCDF	*86*		*40 - 135*	*12/16/13 16:32*	*01/10/14 03:53*	*1*
13C-1,2,3,7,8-PeCDD	*85*		*40 - 135*	*12/16/13 16:32*	*01/10/14 03:53*	*1*
13C-1,2,3,7,8-PeCDF	*86*		*40 - 135*	*12/16/13 16:32*	*01/10/14 03:53*	*1*
13C-1,2,3,6,7,8-HxCDD	*95*		*40 - 135*	*12/16/13 16:32*	*01/10/14 03:53*	*1*
13C-1,2,3,4,7,8-HxCDF	*88*		*40 - 135*	*12/16/13 16:32*	*01/10/14 03:53*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*90*		*40 - 135*	*12/16/13 16:32*	*01/10/14 03:53*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*91*		*40 - 135*	*12/16/13 16:32*	*01/10/14 03:53*	*1*
13C-OCDD	*92*		*40 - 135*	*12/16/13 16:32*	*01/10/14 03:53*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	6.0	U	10	6.0	ug/L		01/03/14 17:29	01/08/14 13:51	1
Aluminum	80	U	200	80	ug/L		01/03/14 17:29	01/08/14 13:51	1
Barium	**11**	**J**	50	4.0	ug/L		01/03/14 17:29	01/08/14 13:51	1
Beryllium	0.61	U	5.0	0.61	ug/L		01/03/14 17:29	01/08/14 13:51	1
Calcium	**24000**		1000	110	ug/L		01/03/14 17:29	01/08/14 13:51	1
Cadmium	0.91	U	5.0	0.91	ug/L		01/03/14 17:29	01/08/14 13:51	1
Cobalt	4.9	U	50	4.9	ug/L		01/03/14 17:29	01/08/14 13:51	1
Chromium	3.1	U	10	3.1	ug/L		01/03/14 17:29	01/08/14 13:51	1
Copper	4.6	U	25	4.6	ug/L		01/03/14 17:29	01/08/14 13:51	1
Iron	28	U	100	28	ug/L		01/03/14 17:29	01/08/14 13:51	1
Potassium	**2800**	**J**	5000	1700	ug/L		01/03/14 17:29	01/08/14 13:51	1
Magnesium	**7500**		1000	130	ug/L		01/03/14 17:29	01/08/14 13:51	1
Manganese	**3.8**	**J**	15	3.3	ug/L		01/03/14 17:29	01/08/14 13:51	1
Sodium	**15000**		1000	320	ug/L		01/03/14 17:29	01/08/14 13:51	1
Nickel	13	U	40	13	ug/L		01/03/14 17:29	01/08/14 13:51	1
Lead	**1.8**	**J**	10	1.5	ug/L		01/03/14 17:29	01/08/14 13:51	1
Antimony	4.0	U	10	4.0	ug/L		01/03/14 17:29	01/08/14 13:51	1
Selenium	2.7	U	15	2.7	ug/L		01/03/14 17:29	01/08/14 13:51	1
Titanium	2.4	U	20	2.4	ug/L		01/03/14 17:29	01/08/14 13:51	1

Client Sample ID: RINSATE

Lab Sample ID: 680-96898-13

Date Collected: 12/06/13 12:30
Date Received: 12/07/13 10:10

Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	4.1	U	50	4.1	ug/L		01/03/14 17:29	01/08/14 13:51	1
Zinc	**53**	**B**	20	5.2	ug/L		01/03/14 17:29	01/08/14 13:51	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	U	10	1.2	ug/L		01/03/14 17:29	01/09/14 00:53	1
Niobium	2.2	U	25	2.2	ug/L		01/03/14 17:29	01/09/14 00:53	1
Thallium	0.55	U	2.0	0.55	ug/L		01/03/14 17:29	01/09/14 00:53	1
Uranium	0.23	U	1.0	0.23	ug/L		01/03/14 17:29	01/09/14 00:53	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		12/10/13 09:56	12/11/13 14:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.19**		0.020	0.0040	mg/L			12/07/13 19:51	1
Chloride	**4.5**		0.20	0.020	mg/L			12/07/13 19:51	1
Sulfate	**5.2**		0.50	0.050	mg/L			12/07/13 19:51	1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	0.0950	U	3.00	1.85	pCi/L		12/31/13 12:16	01/02/14 18:30	1
Gross Beta	**1.44**		4.00	0.940	pCi/L		12/31/13 12:16	01/02/14 18:30	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	-23.5	U		45.8	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Bismuth-212	-1.60	U		181	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Bismuth-214	-0.366	U		34.7	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Bismuth-210M	1.86	U		15.1	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Cesium-134	1.72	U		12.5	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Cesium-137	-4.28	U		17.2	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Cobalt-57	0.528	U		8.20	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Cobalt-60	0.804	U		14.5	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Lead-212	6.85	U		25.5	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Lead-214	15.4	U		26.4	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Potassium-40	6.62	U		238	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Protactinium-231	25.8	U		275	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Protactinium-234	1.16	U		41.4	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Radium-224	-56.0	U		266	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Thallium-208	1.22	U		16.1	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Thorium-227	8.86	U		90.4	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Thorium-231	45.8	U		59.0	pCi/L		12/23/13 17:56	01/11/14 04:33	1
Thorium-234	96.5	U		256	pCi/L		12/23/13 17:56	01/11/14 04:33	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**0.221**		1.00	0.190	pCi/L		12/09/13 11:35	12/31/13 07:56	1

Client Sample ID: RINSATE

Lab Sample ID: 680-96898-13
Matrix: Water

Date Collected: 12/06/13 12:30
Date Received: 12/07/13 10:10

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	*98.5*		*40 - 110*	*12/09/13 11:35*	*12/31/13 07:56*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.0425	U	1.00	0.434	pCi/L		12/09/13 11:40	12/30/13 11:01	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	*98.5*		*40 - 110*	*12/09/13 11:40*	*12/30/13 11:01*	*1*
Y Carrier	*87.9*		*40 - 110*	*12/09/13 11:40*	*12/30/13 11:01*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	-0.0434	U	1.00	0.197	pCi/L		01/22/14 08:57	01/23/14 22:10	1
Thorium-230	0.131	U	1.00	0.166	pCi/L		01/22/14 08:57	01/23/14 22:10	1
Thorium-232	-0.0144	U	1.00	0.146	pCi/L		01/22/14 08:57	01/23/14 22:10	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	*73.1*		*30 - 110*	*01/22/14 08:57*	*01/23/14 22:10*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
U-238	0.0162	U	1.00	0.0910	pCi/L		01/09/14 09:41	01/16/14 23:39	1
Uranium-235/236	0.0249	U	1.00	0.0748	pCi/L		01/09/14 09:41	01/16/14 23:39	1
Uranium-233/234	-0.00376	U	1.00	0.0912	pCi/L		01/09/14 09:41	01/16/14 23:39	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	*89.0*		*30 - 110*	*01/09/14 09:41*	*01/16/14 23:39*	*1*

Client Sample ID: TRIP BLANK

Lab Sample ID: 680-96898-14
Matrix: Water

Date Collected: 12/06/13 00:00
Date Received: 12/07/13 10:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.7	U	20	6.7	ug/L			12/08/13 23:17	1
Acetonitrile	7.3	U	50	7.3	ug/L			12/08/13 23:17	1
Benzene	0.25	U	5.0	0.25	ug/L			12/08/13 23:17	1
Bromobenzene	0.33	U	5.0	0.33	ug/L			12/08/13 23:17	1
Chlorobromomethane	0.55	U	5.0	0.55	ug/L			12/08/13 23:17	1
Bromodichloromethane	0.25	U	5.0	0.25	ug/L			12/08/13 23:17	1
Bromoform	0.37	U	5.0	0.37	ug/L			12/08/13 23:17	1
Bromomethane	0.40	U	10	0.40	ug/L			12/08/13 23:17	1
2-Butanone (MEK)	0.39	U	20	0.39	ug/L			12/08/13 23:17	1
n-Butylbenzene	0.23	U	5.0	0.23	ug/L			12/08/13 23:17	1
sec-Butylbenzene	0.31	U	5.0	0.31	ug/L			12/08/13 23:17	1
tert-Butylbenzene	0.31	U	5.0	0.31	ug/L			12/08/13 23:17	1
Carbon disulfide	0.37	U	5.0	0.37	ug/L			12/08/13 23:17	1
Carbon tetrachloride	0.36	U	5.0	0.36	ug/L			12/08/13 23:17	1
Chlorobenzene	0.38	U	5.0	0.38	ug/L			12/08/13 23:17	1
Dibromochloromethane	0.33	U	5.0	0.33	ug/L			12/08/13 23:17	1
Chloroethane	0.38	U	10	0.38	ug/L			12/08/13 23:17	1
Chloroform	0.15	U	5.0	0.15	ug/L			12/08/13 23:17	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 680-96898-14

Date Collected: 12/06/13 00:00

Matrix: Water

Date Received: 12/07/13 10:10

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.55	U	10	0.55	ug/L			12/08/13 23:17	1
2-Chlorotoluene	0.34	U	5.0	0.34	ug/L			12/08/13 23:17	1
4-Chlorotoluene	0.31	U	5.0	0.31	ug/L			12/08/13 23:17	1
Dibromomethane	0.41	U	5.0	0.41	ug/L			12/08/13 23:17	1
1,2-Dichlorobenzene	0.28	U	5.0	0.28	ug/L			12/08/13 23:17	1
1,3-Dichlorobenzene	0.23	U	5.0	0.23	ug/L			12/08/13 23:17	1
1,4-Dichlorobenzene	0.35	U	5.0	0.35	ug/L			12/08/13 23:17	1
Dichlorodifluoromethane	0.45	U *	10	0.45	ug/L			12/08/13 23:17	1
1,1-Dichloroethane	0.39	U	5.0	0.39	ug/L			12/08/13 23:17	1
1,2-Dichloroethane	0.37	U	5.0	0.37	ug/L			12/08/13 23:17	1
cis-1,2-Dichloroethene	0.16	U	5.0	0.16	ug/L			12/08/13 23:17	1
trans-1,2-Dichloroethene	0.18	U	5.0	0.18	ug/L			12/08/13 23:17	1
1,1-Dichloroethene	0.37	U	5.0	0.37	ug/L			12/08/13 23:17	1
1,2-Dichloropropane	0.32	U	5.0	0.32	ug/L			12/08/13 23:17	1
1,3-Dichloropropane	0.24	U	5.0	0.24	ug/L			12/08/13 23:17	1
2,2-Dichloropropane	0.54	U	5.0	0.54	ug/L			12/08/13 23:17	1
cis-1,3-Dichloropropene	0.34	U	5.0	0.34	ug/L			12/08/13 23:17	1
trans-1,3-Dichloropropene	0.35	U	5.0	0.35	ug/L			12/08/13 23:17	1
1,1-Dichloropropene	0.30	U	5.0	0.30	ug/L			12/08/13 23:17	1
Ethylbenzene	0.30	U	5.0	0.30	ug/L			12/08/13 23:17	1
2-Hexanone	0.59	U	20	0.59	ug/L			12/08/13 23:17	1
Methyl iodide	1.5	U	5.0	1.5	ug/L			12/08/13 23:17	1
Isopropylbenzene	0.26	U	5.0	0.26	ug/L			12/08/13 23:17	1
Cymene	0.32	U	5.0	0.32	ug/L			12/08/13 23:17	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			12/08/13 23:17	1
4-Methyl-2-pentanone (MIBK)	0.33	U	20	0.33	ug/L			12/08/13 23:17	1
Methyl tert-butyl ether	0.40	U	5.0	0.40	ug/L			12/08/13 23:17	1
Naphthalene	0.85	U	5.0	0.85	ug/L			12/08/13 23:17	1
N-Propylbenzene	0.30	U	5.0	0.30	ug/L			12/08/13 23:17	1
Styrene	0.35	U	5.0	0.35	ug/L			12/08/13 23:17	1
1,1,1,2-Tetrachloroethane	0.25	U	5.0	0.25	ug/L			12/08/13 23:17	1
1,1,2,2-Tetrachloroethane	0.43	U	5.0	0.43	ug/L			12/08/13 23:17	1
Tetrachloroethene	0.28	U	5.0	0.28	ug/L			12/08/13 23:17	1
Toluene	1.0	U	5.0	1.0	ug/L			12/08/13 23:17	1
1,2,3-Trichlorobenzene	0.65	U	5.0	0.65	ug/L			12/08/13 23:17	1
1,2,4-Trichlorobenzene	0.55	U	5.0	0.55	ug/L			12/08/13 23:17	1
1,1,1-Trichloroethane	0.29	U	5.0	0.29	ug/L			12/08/13 23:17	1
1,1,2-Trichloroethane	0.57	U	5.0	0.57	ug/L			12/08/13 23:17	1
Trichloroethene	0.29	U	5.0	0.29	ug/L			12/08/13 23:17	1
Trichlorofluoromethane	0.22	U	5.0	0.22	ug/L			12/08/13 23:17	1
1,2,3-Trichloropropane	0.56	U	5.0	0.56	ug/L			12/08/13 23:17	1
1,2,4-Trimethylbenzene	0.40	U	5.0	0.40	ug/L			12/08/13 23:17	1
1,3,5-Trimethylbenzene	0.28	U	5.0	0.28	ug/L			12/08/13 23:17	1
Vinyl acetate	0.61	U	5.0	0.61	ug/L			12/08/13 23:17	1
Vinyl chloride	0.43	U	5.0	0.43	ug/L			12/08/13 23:17	1
m-Xylene & p-Xylene	0.57	U	5.0	0.57	ug/L			12/08/13 23:17	1
o-Xylene	0.32	U	5.0	0.32	ug/L			12/08/13 23:17	1
Xylenes, Total	0.85	U	10	0.85	ug/L			12/08/13 23:17	1
Ethanol	130	U	250	130	ug/L			12/08/13 23:17	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 680-96898-14

Date Collected: 12/06/13 00:00
Date Received: 12/07/13 10:10

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 123		12/08/13 23:17	1
1,2-Dichloroethane-d4 (Surr)	123		78 - 127		12/08/13 23:17	1
Toluene-d8 (Surr)	103		80 - 120		12/08/13 23:17	1
Dibromofluoromethane (Surr)	110		80 - 120		12/08/13 23:17	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 160-90351/1-A
Matrix: Solid
Analysis Batch: 90521

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90351

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10.0	J	20	6.5	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Acetonitrile	20	U	50	20	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Benzene	0.25	U	5.0	0.25	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Bromobenzene	0.37	U	5.0	0.37	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Bromodichloromethane	0.25	U	5.0	0.25	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Bromoform	0.37	U	5.0	0.37	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Bromomethane	1.1	U	10	1.1	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
2-Butanone (MEK)	1.9	U	20	1.9	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Carbon disulfide	0.69	U	5.0	0.69	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Chlorobromomethane	0.82	U	5.0	0.82	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Carbon tetrachloride	0.51	U	5.0	0.51	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Chlorobenzene	0.38	U	5.0	0.38	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Chloroethane	0.52	U	10	0.52	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Chloroform	0.38	U	5.0	0.38	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Chloromethane	0.65	U	10	0.65	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
2-Chlorotoluene	0.34	U	5.0	0.34	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
4-Chlorotoluene	0.38	U	5.0	0.38	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Dibromochloromethane	0.41	U	5.0	0.41	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Dibromomethane	0.97	U	5.0	0.97	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,2-Dichlorobenzene	0.28	U	5.0	0.28	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,3-Dichlorobenzene	0.28	U	5.0	0.28	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,4-Dichlorobenzene	0.60	U	5.0	0.60	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Dichlorodifluoromethane	1.3	U	10	1.3	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,1-Dichloroethane	0.39	U	5.0	0.39	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
cis-1,2-Dichloroethene	0.60	U	5.0	0.60	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,2-Dichloroethane	0.87	U	5.0	0.87	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,1-Dichloroethene	1.6	U	5.0	1.6	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,2-Dichloropropane	0.38	U	5.0	0.38	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,3-Dichloropropane	0.32	U	5.0	0.32	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
2,2-Dichloropropane	0.54	U	5.0	0.54	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
cis-1,3-Dichloropropene	0.60	U	5.0	0.60	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,1-Dichloropropene	0.30	U	5.0	0.30	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Ethylbenzene	0.30	U	5.0	0.30	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
2-Hexanone	1.8	U	20	1.8	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Isopropylbenzene	0.26	U	5.0	0.26	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Cymene	0.32	U	5.0	0.32	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Methyl iodide	1.5	U	5.0	1.5	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Methylene Chloride	1.6	U	5.0	1.6	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
4-Methyl-2-pentanone (MIBK)	0.73	U	20	0.73	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Methyl tert-butyl ether	0.48	U	5.0	0.48	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Naphthalene	0.49	U	5.0	0.49	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
n-Butylbenzene	0.60	U	5.0	0.60	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
N-Propylbenzene	0.32	U	5.0	0.32	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
sec-Butylbenzene	0.31	U	5.0	0.31	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Styrene	0.35	U	5.0	0.35	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
tert-Butylbenzene	0.31	U	5.0	0.31	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,1,1,2-Tetrachloroethane	0.35	U	5.0	0.35	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,1,2,2-Tetrachloroethane	0.40	U	5.0	0.40	ug/Kg		12/08/13 07:30	12/08/13 10:21	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 160-90351/1-A
Matrix: Solid
Analysis Batch: 90521

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90351

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	2.95	J	5.0	0.32	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Toluene	0.70	U	5.0	0.70	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
trans-1,2-Dichloroethene	0.94	U	5.0	0.94	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
trans-1,3-Dichloropropene	0.35	U	5.0	0.35	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,2,3-Trichlorobenzene	0.44	U	5.0	0.44	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,2,4-Trichlorobenzene	0.43	U	5.0	0.43	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,1,1-Trichloroethane	0.43	U	5.0	0.43	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,1,2-Trichloroethane	0.57	U	5.0	0.57	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
m-Xylene & p-Xylene	0.57	U	5.0	0.57	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Trichloroethene	0.39	U	5.0	0.39	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
o-Xylene	0.34	U	5.0	0.34	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Trichlorofluoromethane	0.50	U	5.0	0.50	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,2,3-Trichloropropane	0.56	U	5.0	0.56	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,2,4-Trimethylbenzene	0.60	U	5.0	0.60	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
1,3,5-Trimethylbenzene	0.31	U	5.0	0.31	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Vinyl acetate	0.78	U	5.0	0.78	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Vinyl chloride	0.43	U	5.0	0.43	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Ethanol	61	U	250	61	ug/Kg		12/08/13 07:30	12/08/13 10:21	1
Xylenes, Total	0.85	U	10	0.85	ug/Kg		12/08/13 07:30	12/08/13 10:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*63 - 150*	*12/08/13 07:30*	*12/08/13 10:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*72 - 127*	*12/08/13 07:30*	*12/08/13 10:21*	*1*
Toluene-d8 (Surr)	*112*		*80 - 120*	*12/08/13 07:30*	*12/08/13 10:21*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 126*	*12/08/13 07:30*	*12/08/13 10:21*	*1*

Lab Sample ID: LCS 160-90351/2-A
Matrix: Solid
Analysis Batch: 90521

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	58.1		ug/Kg		116	59 - 129
Acetonitrile	500	493		ug/Kg		99	70 - 128
Benzene	50.0	47.2		ug/Kg		94	80 - 120
Bromobenzene	50.0	48.7		ug/Kg		97	80 - 120
Bromodichloromethane	50.0	47.9		ug/Kg		96	80 - 120
Bromoform	50.0	49.1		ug/Kg		98	84 - 126
Bromomethane	50.0	55.1		ug/Kg		110	74 - 128
2-Butanone (MEK)	50.0	56.4		ug/Kg		113	61 - 134
Carbon disulfide	50.0	46.0		ug/Kg		92	79 - 121
Chlorobromomethane	50.0	48.7		ug/Kg		97	80 - 120
Carbon tetrachloride	50.0	46.5		ug/Kg		93	80 - 125
Chlorobenzene	50.0	49.9		ug/Kg		100	80 - 120
Chloroethane	50.0	48.2		ug/Kg		96	73 - 129
Chloroform	50.0	46.3		ug/Kg		93	80 - 120
Chloromethane	50.0	48.9		ug/Kg		98	70 - 129
2-Chlorotoluene	50.0	44.4		ug/Kg		89	80 - 120
4-Chlorotoluene	50.0	44.9		ug/Kg		90	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 160-90351/2-A
Matrix: Solid
Analysis Batch: 90521

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	50.0	50.5		ug/Kg		101	80 - 120
Dibromomethane	50.0	48.4		ug/Kg		97	80 - 120
1,2-Dichlorobenzene	50.0	50.0		ug/Kg		100	80 - 120
1,3-Dichlorobenzene	50.0	50.4		ug/Kg		101	80 - 120
1,4-Dichlorobenzene	50.0	46.9		ug/Kg		94	80 - 120
Dichlorodifluoromethane	50.0	46.5		ug/Kg		93	73 - 124
1,1-Dichloroethane	50.0	47.0		ug/Kg		94	80 - 120
cis-1,2-Dichloroethene	50.0	46.9		ug/Kg		94	80 - 120
1,2-Dichloroethane	50.0	50.6		ug/Kg		101	76 - 125
1,1-Dichloroethene	50.0	46.5		ug/Kg		93	80 - 120
1,2-Dichloropropane	50.0	47.5		ug/Kg		95	80 - 120
1,3-Dichloropropane	50.0	47.9		ug/Kg		96	80 - 120
2,2-Dichloropropane	50.0	35.5	*	ug/Kg		71	78 - 130
cis-1,3-Dichloropropene	50.0	49.1		ug/Kg		98	80 - 125
1,1-Dichloropropene	50.0	48.9		ug/Kg		98	80 - 120
Ethylbenzene	50.0	46.3		ug/Kg		93	80 - 120
2-Hexanone	50.0	60.1		ug/Kg		120	71 - 127
Isopropylbenzene	50.0	45.8		ug/Kg		92	80 - 120
Cymene	50.0	47.3		ug/Kg		95	82 - 124
Methyl iodide	50.0	48.5		ug/Kg		97	77 - 124
Methylene Chloride	50.0	44.2		ug/Kg		88	80 - 120
4-Methyl-2-pentanone (MIBK)	50.0	58.7		ug/Kg		117	75 - 127
Methyl tert-butyl ether	50.0	49.4		ug/Kg		99	83 - 124
Naphthalene	50.0	57.5		ug/Kg		115	58 - 140
n-Butylbenzene	50.0	44.5		ug/Kg		89	78 - 123
N-Propylbenzene	50.0	45.0		ug/Kg		90	82 - 123
sec-Butylbenzene	50.0	45.5		ug/Kg		91	81 - 121
Styrene	50.0	54.0		ug/Kg		108	80 - 120
tert-Butylbenzene	50.0	46.9		ug/Kg		94	80 - 120
1,1,1,2-Tetrachloroethane	50.0	48.4		ug/Kg		97	80 - 120
1,1,2,2-Tetrachloroethane	50.0	46.2		ug/Kg		92	78 - 121
Tetrachloroethene	50.0	54.5		ug/Kg		109	80 - 120
Toluene	50.0	48.3		ug/Kg		97	80 - 120
trans-1,2-Dichloroethene	50.0	47.2		ug/Kg		94	80 - 120
trans-1,3-Dichloropropene	50.0	48.6		ug/Kg		97	82 - 124
1,2,3-Trichlorobenzene	50.0	62.3		ug/Kg		125	52 - 140
1,2,4-Trichlorobenzene	50.0	59.6		ug/Kg		119	75 - 124
1,1,1-Trichloroethane	50.0	45.0		ug/Kg		90	81 - 124
1,1,2-Trichloroethane	50.0	45.9		ug/Kg		92	80 - 120
Trichloroethene	50.0	47.7		ug/Kg		95	80 - 120
Trichlorofluoromethane	50.0	50.1		ug/Kg		100	77 - 132
1,2,3-Trichloropropane	50.0	47.0		ug/Kg		94	77 - 120
1,2,4-Trimethylbenzene	50.0	46.1		ug/Kg		92	85 - 123
1,3,5-Trimethylbenzene	50.0	47.0		ug/Kg		94	80 - 120
Vinyl acetate	50.0	52.5		ug/Kg		105	67 - 134
Vinyl chloride	50.0	49.4		ug/Kg		99	65 - 123
Xylenes, Total	100	101		ug/Kg		101	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 160-90351/2-A
Matrix: Solid
Analysis Batch: 90521

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90351

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*63 - 150*
1,2-Dichloroethane-d4 (Surr)	*111*		*72 - 127*
Toluene-d8 (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*110*		*70 - 126*

Lab Sample ID: LCSD 160-90351/3-A
Matrix: Solid
Analysis Batch: 90521

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 90351

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	50.0	57.4		ug/Kg		115	59 - 129	1	20
Acetonitrile	500	502		ug/Kg		100	70 - 128	2	20
Benzene	50.0	48.5		ug/Kg		97	80 - 120	3	20
Bromobenzene	50.0	49.0		ug/Kg		98	80 - 120	1	20
Bromodichloromethane	50.0	49.0		ug/Kg		98	80 - 120	2	20
Bromoform	50.0	50.0		ug/Kg		100	84 - 126	2	20
Bromomethane	50.0	51.3		ug/Kg		103	74 - 128	7	20
2-Butanone (MEK)	50.0	56.9		ug/Kg		114	61 - 134	1	20
Carbon disulfide	50.0	45.5		ug/Kg		91	79 - 121	1	20
Chlorobromomethane	50.0	49.5		ug/Kg		99	80 - 120	2	20
Carbon tetrachloride	50.0	48.0		ug/Kg		96	80 - 125	3	20
Chlorobenzene	50.0	49.6		ug/Kg		99	80 - 120	1	20
Chloroethane	50.0	47.1		ug/Kg		94	73 - 129	2	20
Chloroform	50.0	47.3		ug/Kg		95	80 - 120	2	20
Chloromethane	50.0	48.0		ug/Kg		96	70 - 129	2	20
2-Chlorotoluene	50.0	45.3		ug/Kg		91	80 - 120	2	20
4-Chlorotoluene	50.0	45.5		ug/Kg		91	80 - 120	1	20
Dibromochloromethane	50.0	50.8		ug/Kg		102	80 - 120	1	20
Dibromomethane	50.0	49.0		ug/Kg		98	80 - 120	1	20
1,2-Dichlorobenzene	50.0	50.6		ug/Kg		101	80 - 120	1	20
1,3-Dichlorobenzene	50.0	51.5		ug/Kg		103	80 - 120	2	20
1,4-Dichlorobenzene	50.0	47.7		ug/Kg		95	80 - 120	2	20
Dichlorodifluoromethane	50.0	42.8		ug/Kg		86	73 - 124	8	20
1,1-Dichloroethane	50.0	47.2		ug/Kg		94	80 - 120	1	20
cis-1,2-Dichloroethene	50.0	47.3		ug/Kg		95	80 - 120	1	20
1,2-Dichloroethane	50.0	50.4		ug/Kg		101	76 - 125	0	20
1,1-Dichloroethene	50.0	46.3		ug/Kg		93	80 - 120	1	20
1,2-Dichloropropane	50.0	48.3		ug/Kg		97	80 - 120	2	20
1,3-Dichloropropane	50.0	48.4		ug/Kg		97	80 - 120	1	20
2,2-Dichloropropane	50.0	37.4	*	ug/Kg		75	78 - 130	5	20
cis-1,3-Dichloropropene	50.0	48.8		ug/Kg		98	80 - 125	1	20
1,1-Dichloropropene	50.0	49.4		ug/Kg		99	80 - 120	1	20
Ethylbenzene	50.0	46.7		ug/Kg		93	80 - 120	1	20
2-Hexanone	50.0	58.9		ug/Kg		118	71 - 127	2	20
Isopropylbenzene	50.0	46.9		ug/Kg		94	80 - 120	2	20
Cymene	50.0	47.9		ug/Kg		96	82 - 124	1	20
Methyl iodide	50.0	48.4		ug/Kg		97	77 - 124	0	20
Methylene Chloride	50.0	43.1		ug/Kg		86	80 - 120	2	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 160-90351/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 90521 — **Prep Batch: 90351**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	50.0	58.3		ug/Kg		117	75 - 127	1	20
Methyl tert-butyl ether	50.0	49.0		ug/Kg		98	83 - 124	1	20
Naphthalene	50.0	59.6		ug/Kg		119	58 - 140	4	20
n-Butylbenzene	50.0	45.8		ug/Kg		92	78 - 123	3	20
N-Propylbenzene	50.0	46.1		ug/Kg		92	82 - 123	2	20
sec-Butylbenzene	50.0	46.2		ug/Kg		92	81 - 121	2	20
Styrene	50.0	53.3		ug/Kg		107	80 - 120	1	20
tert-Butylbenzene	50.0	47.5		ug/Kg		95	80 - 120	1	20
1,1,1,2-Tetrachloroethane	50.0	48.1		ug/Kg		96	80 - 120	1	20
1,1,2,2-Tetrachloroethane	50.0	46.1		ug/Kg		92	78 - 121	0	20
Tetrachloroethene	50.0	55.0		ug/Kg		110	80 - 120	1	20
Toluene	50.0	49.0		ug/Kg		98	80 - 120	1	20
trans-1,2-Dichloroethene	50.0	47.2		ug/Kg		94	80 - 120	0	20
trans-1,3-Dichloropropene	50.0	48.2		ug/Kg		96	82 - 124	1	20
1,2,3-Trichlorobenzene	50.0	64.5		ug/Kg		129	52 - 140	4	20
1,2,4-Trichlorobenzene	50.0	61.6		ug/Kg		123	75 - 124	3	20
1,1,1-Trichloroethane	50.0	45.6		ug/Kg		91	81 - 124	1	20
1,1,2-Trichloroethane	50.0	47.1		ug/Kg		94	80 - 120	3	20
Trichloroethene	50.0	49.6		ug/Kg		99	80 - 120	4	20
Trichlorofluoromethane	50.0	47.6		ug/Kg		95	77 - 132	5	20
1,2,3-Trichloropropane	50.0	46.8		ug/Kg		94	77 - 120	0	20
1,2,4-Trimethylbenzene	50.0	46.8		ug/Kg		94	85 - 123	2	20
1,3,5-Trimethylbenzene	50.0	48.2		ug/Kg		96	80 - 120	3	20
Vinyl acetate	50.0	54.6		ug/Kg		109	67 - 134	4	20
Vinyl chloride	50.0	48.5		ug/Kg		97	65 - 123	2	20
Xylenes, Total	100	100		ug/Kg		100	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*63 - 150*
1,2-Dichloroethane-d4 (Surr)	*113*		*72 - 127*
Toluene-d8 (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*70 - 126*

Lab Sample ID: 680-96898-4 MS — **Client Sample ID: K53-B-1_SUB**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 90521 — **Prep Batch: 90351**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	40	B	69.4	119		ug/Kg	☼	114	35 - 150
Acetonitrile	23	U	694	746		ug/Kg	☼	107	58 - 128
Benzene	0.28	U	69.4	65.1		ug/Kg	☼	94	80 - 120
Bromobenzene	0.42	U	69.4	67.2		ug/Kg	☼	97	87 - 125
Bromodichloromethane	0.28	U	69.4	70.6		ug/Kg	☼	102	77 - 131
Bromoform	0.42	U	69.4	72.9		ug/Kg	☼	105	80 - 120
Bromomethane	1.3	U	69.4	59.2		ug/Kg	☼	85	61 - 134
2-Butanone (MEK)	6.6	J	69.4	98.2	F	ug/Kg	☼	132	56 - 130
Carbon disulfide	0.78	U	69.4	48.3	F	ug/Kg	☼	70	74 - 125
Carbon tetrachloride	0.58	U	69.4	57.6		ug/Kg	☼	83	67 - 140

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-96898-4 MS | **Client Sample ID: K53-B-1_SUB**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 90521 | **Prep Batch: 90351**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	0.43	U	69.4	67.8		ug/Kg	☼	98	76 - 117
Chlorobromomethane	0.93	U	69.4	67.2		ug/Kg	☼	97	69 - 129
Chloroethane	0.59	U	69.4	60.1		ug/Kg	☼	87	65 - 134
Chloroform	0.43	U	69.4	64.5		ug/Kg	☼	93	79 - 124
Chloromethane	0.74	U	69.4	43.1		ug/Kg	☼	62	56 - 139
2-Chlorotoluene	0.39	U	69.4	60.4		ug/Kg	☼	87	84 - 127
4-Chlorotoluene	0.43	U	69.4	62.0		ug/Kg	☼	89	85 - 123
cis-1,2-Dichloroethene	0.68	U	69.4	63.4		ug/Kg	☼	91	75 - 121
cis-1,3-Dichloropropene	0.68	U	69.4	69.7		ug/Kg	☼	100	79 - 123
Cymene	0.36	U	69.4	62.0		ug/Kg	☼	89	42 - 150
Dibromochloromethane	0.47	U	69.4	73.4		ug/Kg	☼	106	80 - 120
Dibromomethane	1.1	U	69.4	74.1		ug/Kg	☼	107	75 - 122
1,2-Dichlorobenzene	0.32	U	69.4	72.5		ug/Kg	☼	105	48 - 138
1,3-Dichlorobenzene	0.32	U	69.4	70.2		ug/Kg	☼	101	73 - 119
1,4-Dichlorobenzene	0.68	U	69.4	65.7		ug/Kg	☼	95	80 - 120
Dichlorodifluoromethane	1.5	U	69.4	30.6	F	ug/Kg	☼	44	69 - 135
1,1-Dichloroethane	0.44	U	69.4	62.9		ug/Kg	☼	91	80 - 120
1,2-Dichloroethane	0.99	U	69.4	72.9		ug/Kg	☼	105	64 - 137
1,1-Dichloroethene	1.8	U	69.4	54.9		ug/Kg	☼	79	55 - 150
1,2-Dichloropropane	0.43	U	69.4	68.9		ug/Kg	☼	99	80 - 120
1,3-Dichloropropane	0.36	U	69.4	70.3		ug/Kg	☼	101	80 - 120
2,2-Dichloropropane	0.61	U *	69.4	46.7		ug/Kg	☼	67	61 - 146
1,1-Dichloropropene	0.34	U	69.4	61.3		ug/Kg	☼	88	80 - 120
Ethylbenzene	0.34	U	69.4	62.9		ug/Kg	☼	91	80 - 120
2-Hexanone	2.0	U	69.4	94.0	F	ug/Kg	☼	135	62 - 118
Isopropylbenzene	0.30	U	69.4	61.0		ug/Kg	☼	88	84 - 132
Methylene Chloride	1.8	U	69.4	60.1		ug/Kg	☼	87	74 - 123
Methyl iodide	1.7	U	69.4	57.6		ug/Kg	☼	83	50 - 148
4-Methyl-2-pentanone (MIBK)	0.83	U	69.4	98.5	F	ug/Kg	☼	142	68 - 130
Methyl tert-butyl ether	0.55	U	69.4	72.2		ug/Kg	☼	104	67 - 138
Naphthalene	0.56	U	69.4	95.1	F	ug/Kg	☼	137	48 - 136
n-Butylbenzene	0.68	U	69.4	60.1		ug/Kg	☼	87	33 - 150
N-Propylbenzene	0.36	U	69.4	60.5		ug/Kg	☼	87	78 - 135
sec-Butylbenzene	0.35	U	69.4	59.2		ug/Kg	☼	85	68 - 131
Styrene	0.40	U	69.4	71.0		ug/Kg	☼	102	80 - 122
tert-Butylbenzene	0.35	U	69.4	61.5		ug/Kg	☼	89	79 - 125
1,1,1,2-Tetrachloroethane	0.40	U	69.4	67.6		ug/Kg	☼	98	80 - 120
1,1,2,2-Tetrachloroethane	0.45	U	69.4	75.1		ug/Kg	☼	108	55 - 150
Tetrachloroethene	2.7	J B	69.4	64.5		ug/Kg	☼	89	77 - 128
Toluene	0.80	U	69.4	65.0		ug/Kg	☼	94	79 - 139
trans-1,2-Dichloroethene	1.1	U	69.4	58.7		ug/Kg	☼	85	75 - 121
trans-1,3-Dichloropropene	0.40	U	69.4	69.4		ug/Kg	☼	100	73 - 148
1,2,3-Trichlorobenzene	0.50	U	69.4	84.4		ug/Kg	☼	122	13 - 130
1,2,4-Trichlorobenzene	0.49	U	69.4	77.6		ug/Kg	☼	112	21 - 143
1,1,1-Trichloroethane	0.49	U	69.4	58.9		ug/Kg	☼	85	83 - 128
1,1,2-Trichloroethane	0.65	U	69.4	71.0		ug/Kg	☼	102	80 - 120
Trichloroethene	0.44	U	69.4	65.1		ug/Kg	☼	94	75 - 123
Trichlorofluoromethane	0.57	U	69.4	59.6		ug/Kg	☼	86	67 - 146

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-96898-4 MS — **Client Sample ID: K53-B-1_SUB**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 90521 — **Prep Batch: 90351**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	0.64	U	69.4	74.0		ug/Kg	☼	107	54 - 150
1,2,4-Trimethylbenzene	0.68	U	69.4	62.2		ug/Kg	☼	90	73 - 150
1,3,5-Trimethylbenzene	0.35	U	69.4	63.0		ug/Kg	☼	91	52 - 150
Vinyl acetate	0.89	U	69.4	80.7		ug/Kg	☼	116	10 - 124
Vinyl chloride	0.49	U	69.4	48.0		ug/Kg	☼	69	59 - 125
Xylenes, Total	0.97	U	139	134		ug/Kg	☼	97	72 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*63 - 150*
Dibromofluoromethane (Surr)	*111*		*70 - 126*
1,2-Dichloroethane-d4 (Surr)	*123*		*72 - 127*
Toluene-d8 (Surr)	*106*		*80 - 120*

Lab Sample ID: 680-96898-4 MSD — **Client Sample ID: K53-B-1_SUB**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 90521 — **Prep Batch: 90351**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	40	B	74.0	121		ug/Kg	☼	109	35 - 150	2	20
Acetonitrile	23	U	740	772		ug/Kg	☼	104	58 - 128	3	20
Benzene	0.28	U	74.0	71.5		ug/Kg	☼	97	80 - 120	9	20
Bromobenzene	0.42	U	74.0	73.7		ug/Kg	☼	99	87 - 125	9	20
Bromodichloromethane	0.28	U	74.0	78.1		ug/Kg	☼	105	77 - 131	10	20
Bromoform	0.42	U	74.0	80.1		ug/Kg	☼	108	80 - 120	9	20
Bromomethane	1.3	U	74.0	65.6		ug/Kg	☼	89	61 - 134	10	20
2-Butanone (MEK)	6.6	J	74.0	99.6		ug/Kg	☼	126	56 - 130	1	20
Carbon disulfide	0.78	U	74.0	53.7	F	ug/Kg	☼	73	74 - 125	11	20
Carbon tetrachloride	0.58	U	74.0	65.2		ug/Kg	☼	88	67 - 140	12	20
Chlorobenzene	0.43	U	74.0	74.3		ug/Kg	☼	100	76 - 117	9	20
Chlorobromomethane	0.93	U	74.0	73.6		ug/Kg	☼	99	69 - 129	9	20
Chloroethane	0.59	U	74.0	63.1		ug/Kg	☼	85	65 - 134	5	20
Chloroform	0.43	U	74.0	70.7		ug/Kg	☼	96	79 - 124	9	20
Chloromethane	0.74	U	74.0	47.9		ug/Kg	☼	65	56 - 139	11	20
2-Chlorotoluene	0.39	U	74.0	66.3		ug/Kg	☼	90	84 - 127	9	20
4-Chlorotoluene	0.43	U	74.0	66.8		ug/Kg	☼	90	85 - 123	7	20
cis-1,2-Dichloroethene	0.68	U	74.0	71.1		ug/Kg	☼	96	75 - 121	12	20
cis-1,3-Dichloropropene	0.68	U	74.0	76.9		ug/Kg	☼	104	79 - 123	10	20
Cymene	0.36	U	74.0	67.0		ug/Kg	☼	90	42 - 150	8	20
Dibromochloromethane	0.47	U	74.0	78.7		ug/Kg	☼	106	80 - 120	7	20
Dibromomethane	1.1	U	74.0	79.9		ug/Kg	☼	108	75 - 122	8	20
1,2-Dichlorobenzene	0.32	U	74.0	77.8		ug/Kg	☼	105	48 - 138	7	20
1,3-Dichlorobenzene	0.32	U	74.0	76.0		ug/Kg	☼	103	73 - 119	8	20
1,4-Dichlorobenzene	0.68	U	74.0	72.0		ug/Kg	☼	97	80 - 120	9	20
Dichlorodifluoromethane	1.5	U	74.0	34.2	F	ug/Kg	☼	46	69 - 135	11	20
1,1-Dichloroethane	0.44	U	74.0	69.3		ug/Kg	☼	94	80 - 120	10	20
1,2-Dichloroethane	0.99	U	74.0	79.6		ug/Kg	☼	108	64 - 137	9	20
1,1-Dichloroethene	1.8	U	74.0	61.6		ug/Kg	☼	83	55 - 150	11	20
1,2-Dichloropropane	0.43	U	74.0	76.5		ug/Kg	☼	103	80 - 120	10	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-96898-4 MSD — **Client Sample ID: K53-B-1_SUB**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 90521 — **Prep Batch: 90351**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichloropropane	0.36	U	74.0	77.7		ug/Kg	☼	105	80 - 120	10	20
2,2-Dichloropropane	0.61	U *	74.0	50.6		ug/Kg	☼	68	61 - 146	8	20
1,1-Dichloropropene	0.34	U	74.0	69.2		ug/Kg	☼	93	80 - 120	12	20
Ethylbenzene	0.34	U	74.0	68.0		ug/Kg	☼	92	80 - 120	8	20
2-Hexanone	2.0	U	74.0	110	F	ug/Kg	☼	149	62 - 118	16	20
Isopropylbenzene	0.30	U	74.0	66.3		ug/Kg	☼	89	84 - 132	8	20
Methylene Chloride	1.8	U	74.0	65.3		ug/Kg	☼	88	74 - 123	8	20
Methyl iodide	1.7	U	74.0	64.8		ug/Kg	☼	87	50 - 148	12	20
4-Methyl-2-pentanone (MIBK)	0.83	U	74.0	104	F	ug/Kg	☼	140	68 - 130	5	20
Methyl tert-butyl ether	0.55	U	74.0	78.7		ug/Kg	☼	106	67 - 138	9	20
Naphthalene	0.56	U	74.0	104	F	ug/Kg	☼	140	48 - 136	9	20
n-Butylbenzene	0.68	U	74.0	63.5		ug/Kg	☼	86	33 - 150	5	20
N-Propylbenzene	0.36	U	74.0	65.4		ug/Kg	☼	88	78 - 135	8	20
sec-Butylbenzene	0.35	U	74.0	64.1		ug/Kg	☼	87	68 - 131	8	20
Styrene	0.40	U	74.0	76.6		ug/Kg	☼	103	80 - 122	8	20
tert-Butylbenzene	0.35	U	74.0	67.2		ug/Kg	☼	91	79 - 125	9	20
1,1,1,2-Tetrachloroethane	0.40	U	74.0	75.1		ug/Kg	☼	101	80 - 120	10	20
1,1,2,2-Tetrachloroethane	0.45	U	74.0	80.6		ug/Kg	☼	109	55 - 150	7	20
Tetrachloroethene	2.7	J B	74.0	70.0		ug/Kg	☼	91	77 - 128	8	20
Toluene	0.80	U	74.0	70.6		ug/Kg	☼	95	79 - 139	8	20
trans-1,2-Dichloroethene	1.1	U	74.0	64.4		ug/Kg	☼	87	75 - 121	9	20
trans-1,3-Dichloropropene	0.40	U	74.0	74.2		ug/Kg	☼	100	73 - 148	7	20
1,2,3-Trichlorobenzene	0.50	U	74.0	90.8		ug/Kg	☼	123	13 - 130	7	20
1,2,4-Trichlorobenzene	0.49	U	74.0	85.6		ug/Kg	☼	116	21 - 143	10	20
1,1,1-Trichloroethane	0.49	U	74.0	65.1		ug/Kg	☼	88	83 - 128	10	20
1,1,2-Trichloroethane	0.65	U	74.0	77.1		ug/Kg	☼	104	80 - 120	8	20
Trichloroethene	0.44	U	74.0	69.7		ug/Kg	☼	94	75 - 123	7	20
Trichlorofluoromethane	0.57	U	74.0	64.3		ug/Kg	☼	87	67 - 146	8	20
1,2,3-Trichloropropane	0.64	U	74.0	79.1		ug/Kg	☼	107	54 - 150	7	20
1,2,4-Trimethylbenzene	0.68	U	74.0	68.3		ug/Kg	☼	92	73 - 150	9	20
1,3,5-Trimethylbenzene	0.35	U	74.0	68.4		ug/Kg	☼	92	52 - 150	8	20
Vinyl acetate	0.89	U	74.0	87.6		ug/Kg	☼	118	10 - 124	8	20
Vinyl chloride	0.49	U	74.0	54.6		ug/Kg	☼	74	59 - 125	13	20
Xylenes, Total	0.97	U	148	148		ug/Kg	☼	100	72 - 125	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*63 - 150*
Dibromofluoromethane (Surr)	*114*		*70 - 126*
1,2-Dichloroethane-d4 (Surr)	*122*		*72 - 127*
Toluene-d8 (Surr)	*106*		*80 - 120*

Lab Sample ID: MB 160-90507/3-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 90507

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.7	U	20	6.7	ug/L			12/08/13 18:15	1
Acetonitrile	7.3	U	50	7.3	ug/L			12/08/13 18:15	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 160-90507/3-A
Matrix: Water
Analysis Batch: 90507

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.25	U	5.0	0.25	ug/L			12/08/13 18:15	1
Bromobenzene	0.33	U	5.0	0.33	ug/L			12/08/13 18:15	1
Bromodichloromethane	0.25	U	5.0	0.25	ug/L			12/08/13 18:15	1
Bromoform	0.37	U	5.0	0.37	ug/L			12/08/13 18:15	1
Bromomethane	0.40	U	10	0.40	ug/L			12/08/13 18:15	1
2-Butanone (MEK)	0.39	U	20	0.39	ug/L			12/08/13 18:15	1
Carbon disulfide	0.37	U	5.0	0.37	ug/L			12/08/13 18:15	1
Chlorobromomethane	0.55	U	5.0	0.55	ug/L			12/08/13 18:15	1
Carbon tetrachloride	0.36	U	5.0	0.36	ug/L			12/08/13 18:15	1
Chlorobenzene	0.38	U	5.0	0.38	ug/L			12/08/13 18:15	1
Chloroethane	0.38	U	10	0.38	ug/L			12/08/13 18:15	1
Chloroform	0.15	U	5.0	0.15	ug/L			12/08/13 18:15	1
Chloromethane	0.55	U	10	0.55	ug/L			12/08/13 18:15	1
2-Chlorotoluene	0.34	U	5.0	0.34	ug/L			12/08/13 18:15	1
4-Chlorotoluene	0.31	U	5.0	0.31	ug/L			12/08/13 18:15	1
Dibromochloromethane	0.33	U	5.0	0.33	ug/L			12/08/13 18:15	1
Dibromomethane	0.41	U	5.0	0.41	ug/L			12/08/13 18:15	1
1,2-Dichlorobenzene	0.28	U	5.0	0.28	ug/L			12/08/13 18:15	1
1,3-Dichlorobenzene	0.23	U	5.0	0.23	ug/L			12/08/13 18:15	1
1,4-Dichlorobenzene	0.35	U	5.0	0.35	ug/L			12/08/13 18:15	1
Dichlorodifluoromethane	0.45	U	10	0.45	ug/L			12/08/13 18:15	1
1,1-Dichloroethane	0.39	U	5.0	0.39	ug/L			12/08/13 18:15	1
cis-1,2-Dichloroethene	0.16	U	5.0	0.16	ug/L			12/08/13 18:15	1
1,2-Dichloroethane	0.37	U	5.0	0.37	ug/L			12/08/13 18:15	1
1,1-Dichloroethene	0.37	U	5.0	0.37	ug/L			12/08/13 18:15	1
1,2-Dichloropropane	0.32	U	5.0	0.32	ug/L			12/08/13 18:15	1
1,3-Dichloropropane	0.24	U	5.0	0.24	ug/L			12/08/13 18:15	1
2,2-Dichloropropane	0.54	U	5.0	0.54	ug/L			12/08/13 18:15	1
cis-1,3-Dichloropropene	0.34	U	5.0	0.34	ug/L			12/08/13 18:15	1
1,1-Dichloropropene	0.30	U	5.0	0.30	ug/L			12/08/13 18:15	1
Ethylbenzene	0.30	U	5.0	0.30	ug/L			12/08/13 18:15	1
2-Hexanone	0.59	U	20	0.59	ug/L			12/08/13 18:15	1
Isopropylbenzene	0.26	U	5.0	0.26	ug/L			12/08/13 18:15	1
Cymene	0.32	U	5.0	0.32	ug/L			12/08/13 18:15	1
Methyl iodide	1.5	U	5.0	1.5	ug/L			12/08/13 18:15	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			12/08/13 18:15	1
4-Methyl-2-pentanone (MIBK)	0.33	U	20	0.33	ug/L			12/08/13 18:15	1
Methyl tert-butyl ether	0.40	U	5.0	0.40	ug/L			12/08/13 18:15	1
Naphthalene	0.85	U	5.0	0.85	ug/L			12/08/13 18:15	1
n-Butylbenzene	0.23	U	5.0	0.23	ug/L			12/08/13 18:15	1
N-Propylbenzene	0.30	U	5.0	0.30	ug/L			12/08/13 18:15	1
sec-Butylbenzene	0.31	U	5.0	0.31	ug/L			12/08/13 18:15	1
Styrene	0.35	U	5.0	0.35	ug/L			12/08/13 18:15	1
tert-Butylbenzene	0.31	U	5.0	0.31	ug/L			12/08/13 18:15	1
1,1,1,2-Tetrachloroethane	0.25	U	5.0	0.25	ug/L			12/08/13 18:15	1
1,1,2,2-Tetrachloroethane	0.43	U	5.0	0.43	ug/L			12/08/13 18:15	1
Tetrachloroethene	0.28	U	5.0	0.28	ug/L			12/08/13 18:15	1
Toluene	1.0	U	5.0	1.0	ug/L			12/08/13 18:15	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 160-90507/3-A
Matrix: Water
Analysis Batch: 90507

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.18	U	5.0	0.18	ug/L			12/08/13 18:15	1
trans-1,3-Dichloropropene	0.35	U	5.0	0.35	ug/L			12/08/13 18:15	1
1,2,3-Trichlorobenzene	0.65	U	5.0	0.65	ug/L			12/08/13 18:15	1
1,2,4-Trichlorobenzene	0.55	U	5.0	0.55	ug/L			12/08/13 18:15	1
1,1,1-Trichloroethane	0.29	U	5.0	0.29	ug/L			12/08/13 18:15	1
1,1,2-Trichloroethane	0.57	U	5.0	0.57	ug/L			12/08/13 18:15	1
m-Xylene & p-Xylene	0.57	U	5.0	0.57	ug/L			12/08/13 18:15	1
Trichloroethene	0.29	U	5.0	0.29	ug/L			12/08/13 18:15	1
o-Xylene	0.32	U	5.0	0.32	ug/L			12/08/13 18:15	1
Trichlorofluoromethane	0.22	U	5.0	0.22	ug/L			12/08/13 18:15	1
1,2,3-Trichloropropane	0.56	U	5.0	0.56	ug/L			12/08/13 18:15	1
1,2,4-Trimethylbenzene	0.40	U	5.0	0.40	ug/L			12/08/13 18:15	1
1,3,5-Trimethylbenzene	0.28	U	5.0	0.28	ug/L			12/08/13 18:15	1
Vinyl acetate	0.61	U	5.0	0.61	ug/L			12/08/13 18:15	1
Vinyl chloride	0.43	U	5.0	0.43	ug/L			12/08/13 18:15	1
Ethanol	130	U	250	130	ug/L			12/08/13 18:15	1
Xylenes, Total	0.85	U	10	0.85	ug/L			12/08/13 18:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*75 - 123*		*12/08/13 18:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*78 - 127*		*12/08/13 18:15*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*12/08/13 18:15*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*12/08/13 18:15*	*1*

Lab Sample ID: LCS 160-90507/4-A
Matrix: Water
Analysis Batch: 90507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	53.1		ug/L		106	72 - 139
Acetonitrile	500	386		ug/L		77	75 - 129
Benzene	50.0	51.1		ug/L		102	80 - 120
Bromobenzene	50.0	49.4		ug/L		99	80 - 120
Bromodichloromethane	50.0	53.0		ug/L		106	80 - 120
Bromoform	50.0	53.6		ug/L		107	80 - 120
Bromomethane	50.0	65.9		ug/L		132	48 - 140
2-Butanone (MEK)	50.0	61.5		ug/L		123	68 - 128
Carbon disulfide	50.0	51.6		ug/L		103	79 - 120
Chlorobromomethane	50.0	51.4		ug/L		103	80 - 120
Carbon tetrachloride	50.0	49.2		ug/L		98	74 - 128
Chlorobenzene	50.0	50.4		ug/L		101	80 - 120
Chloroethane	50.0	65.0		ug/L		130	55 - 140
Chloroform	50.0	50.8		ug/L		102	80 - 120
Chloromethane	50.0	59.4		ug/L		119	72 - 123
2-Chlorotoluene	50.0	49.3		ug/L		99	80 - 122
4-Chlorotoluene	50.0	50.6		ug/L		101	80 - 122
Dibromochloromethane	50.0	54.0		ug/L		108	80 - 120
Dibromomethane	50.0	53.1		ug/L		106	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 160-90507/4-A
Matrix: Water
Analysis Batch: 90507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	51.1		ug/L		102	76 - 122
1,3-Dichlorobenzene	50.0	50.7		ug/L		101	77 - 122
1,4-Dichlorobenzene	50.0	50.2		ug/L		100	80 - 120
Dichlorodifluoromethane	50.0	75.4	*	ug/L		151	49 - 140
1,1-Dichloroethane	50.0	51.2		ug/L		102	80 - 120
cis-1,2-Dichloroethene	50.0	51.0		ug/L		102	80 - 120
1,2-Dichloroethane	50.0	54.6		ug/L		109	80 - 120
1,1-Dichloroethene	50.0	50.0		ug/L		100	77 - 121
1,2-Dichloropropane	50.0	51.9		ug/L		104	80 - 120
1,3-Dichloropropane	50.0	51.8		ug/L		104	80 - 120
2,2-Dichloropropane	50.0	45.3		ug/L		91	73 - 134
cis-1,3-Dichloropropene	50.0	53.3		ug/L		107	80 - 120
1,1-Dichloropropene	50.0	51.6		ug/L		103	80 - 120
Ethylbenzene	50.0	46.8		ug/L		94	80 - 120
2-Hexanone	50.0	54.9		ug/L		110	64 - 136
Isopropylbenzene	50.0	49.4		ug/L		99	80 - 127
Cymene	50.0	49.4		ug/L		99	85 - 125
Methyl iodide	50.0	48.1		ug/L		96	72 - 130
Methylene Chloride	50.0	49.7		ug/L		99	79 - 115
4-Methyl-2-pentanone (MIBK)	50.0	56.0		ug/L		112	74 - 129
Methyl tert-butyl ether	50.0	53.1		ug/L		106	77 - 124
Naphthalene	50.0	53.7		ug/L		107	71 - 133
n-Butylbenzene	50.0	50.4		ug/L		101	87 - 123
N-Propylbenzene	50.0	48.1		ug/L		96	79 - 125
sec-Butylbenzene	50.0	47.2		ug/L		94	80 - 123
Styrene	50.0	51.0		ug/L		102	80 - 120
tert-Butylbenzene	50.0	51.6		ug/L		103	78 - 128
1,1,1,2-Tetrachloroethane	50.0	51.3		ug/L		103	80 - 120
1,1,2,2-Tetrachloroethane	50.0	51.5		ug/L		103	80 - 120
Tetrachloroethene	50.0	51.1		ug/L		102	80 - 120
Toluene	50.0	50.6		ug/L		101	80 - 120
trans-1,2-Dichloroethene	50.0	49.9		ug/L		100	80 - 120
trans-1,3-Dichloropropene	50.0	52.6		ug/L		105	80 - 120
1,2,3-Trichlorobenzene	50.0	50.5		ug/L		101	75 - 130
1,2,4-Trichlorobenzene	50.0	51.5		ug/L		103	82 - 124
1,1,1-Trichloroethane	50.0	50.6		ug/L		101	75 - 127
1,1,2-Trichloroethane	50.0	53.1		ug/L		106	80 - 120
Trichloroethene	50.0	50.6		ug/L		101	80 - 120
Trichlorofluoromethane	50.0	58.1		ug/L		116	72 - 132
1,2,3-Trichloropropane	50.0	52.0		ug/L		104	80 - 120
1,2,4-Trimethylbenzene	50.0	49.9		ug/L		100	84 - 122
1,3,5-Trimethylbenzene	50.0	49.9		ug/L		100	87 - 123
Vinyl acetate	50.0	57.2		ug/L		114	43 - 140
Vinyl chloride	50.0	55.3		ug/L		111	68 - 120
Xylenes, Total	100	100		ug/L		100	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*75 - 123*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 160-90507/4-A
Matrix: Water
Analysis Batch: 90507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*116*		*78 - 127*
Toluene-d8 (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*110*		*80 - 120*

Lab Sample ID: 680-96898-13 MS
Matrix: Water
Analysis Batch: 90507

Client Sample ID: RINSATE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	6.7	U	50.0	67.7		ug/L		135	54 - 140
Acetonitrile	7.3	U	500	620		ug/L		124	71 - 135
Benzene	0.25	U	50.0	51.4		ug/L		103	72 - 123
Bromobenzene	0.33	U	50.0	48.7		ug/L		97	79 - 120
Bromodichloromethane	0.25	U	50.0	56.5		ug/L		113	80 - 120
Bromoform	0.37	U	50.0	55.6		ug/L		111	78 - 122
Bromomethane	0.40	U	50.0	68.9		ug/L		138	51 - 146
2-Butanone (MEK)	0.39	U	50.0	62.4		ug/L		125	62 - 135
Carbon disulfide	0.37	U	50.0	50.9		ug/L		102	80 - 120
Chlorobromomethane	0.55	U	50.0	52.1		ug/L		104	80 - 120
Carbon tetrachloride	0.36	U	50.0	51.8		ug/L		104	80 - 124
Chlorobenzene	0.38	U	50.0	50.1		ug/L		100	80 - 120
Chloroethane	0.38	U	50.0	62.3		ug/L		125	53 - 148
Chloroform	0.15	U	50.0	53.5		ug/L		107	80 - 120
Chloromethane	0.55	U	50.0	60.1		ug/L		120	80 - 120
2-Chlorotoluene	0.34	U	50.0	49.2		ug/L		98	80 - 120
4-Chlorotoluene	0.31	U	50.0	50.8		ug/L		102	77 - 120
Dibromochloromethane	0.33	U	50.0	55.7		ug/L		111	80 - 120
Dibromomethane	0.41	U	50.0	57.3		ug/L		115	80 - 120
1,2-Dichlorobenzene	0.28	U	50.0	51.2		ug/L		102	77 - 117
1,3-Dichlorobenzene	0.23	U	50.0	49.3		ug/L		99	80 - 120
1,4-Dichlorobenzene	0.35	U	50.0	50.2		ug/L		100	80 - 120
Dichlorodifluoromethane	0.45	U *	50.0	73.8	F	ug/L		148	70 - 131
1,1-Dichloroethane	0.39	U	50.0	52.7		ug/L		105	80 - 120
cis-1,2-Dichloroethene	0.16	U	50.0	51.3		ug/L		103	80 - 120
1,2-Dichloroethane	0.37	U	50.0	60.8	F	ug/L		122	80 - 120
1,1-Dichloroethene	0.37	U	50.0	47.1		ug/L		94	80 - 120
1,2-Dichloropropane	0.32	U	50.0	52.3		ug/L		105	80 - 120
1,3-Dichloropropane	0.24	U	50.0	53.2		ug/L		106	80 - 120
2,2-Dichloropropane	0.54	U	50.0	40.0	F	ug/L		80	81 - 128
cis-1,3-Dichloropropene	0.34	U	50.0	51.1		ug/L		102	80 - 120
1,1-Dichloropropene	0.30	U	50.0	51.3		ug/L		103	80 - 120
Ethylbenzene	0.30	U	50.0	48.0		ug/L		96	80 - 120
2-Hexanone	0.59	U	50.0	59.4		ug/L		119	65 - 136
Isopropylbenzene	0.26	U	50.0	47.8		ug/L		96	78 - 125
Cymene	0.32	U	50.0	47.7		ug/L		95	84 - 124
Methyl iodide	1.5	U	50.0	48.7		ug/L		97	77 - 125
Methylene Chloride	1.7	U	50.0	51.6		ug/L		103	80 - 120
4-Methyl-2-pentanone (MIBK)	0.33	U	50.0	61.3		ug/L		123	74 - 132

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-96898-13 MS
Matrix: Water
Analysis Batch: 90507

Client Sample ID: RINSATE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	0.40	U	50.0	56.7		ug/L		113	78 - 124
Naphthalene	0.85	U	50.0	62.5		ug/L		125	53 - 148
n-Butylbenzene	0.23	U	50.0	46.3		ug/L		93	81 - 125
N-Propylbenzene	0.30	U	50.0	48.2		ug/L		96	78 - 124
sec-Butylbenzene	0.31	U	50.0	46.2		ug/L		92	78 - 120
Styrene	0.35	U	50.0	51.1		ug/L		102	80 - 120
tert-Butylbenzene	0.31	U	50.0	50.0		ug/L		100	79 - 122
1,1,1,2-Tetrachloroethane	0.25	U	50.0	50.9		ug/L		102	80 - 120
1,1,2,2-Tetrachloroethane	0.43	U	50.0	53.8		ug/L		108	72 - 125
Tetrachloroethene	0.28	U	50.0	46.0		ug/L		92	80 - 120
Toluene	1.0	J	50.0	50.3		ug/L		98	80 - 120
trans-1,2-Dichloroethene	0.18	U	50.0	48.8		ug/L		98	80 - 120
trans-1,3-Dichloropropene	0.35	U	50.0	54.8		ug/L		110	77 - 122
1,2,3-Trichlorobenzene	0.65	U	50.0	57.2		ug/L		114	62 - 126
1,2,4-Trichlorobenzene	0.55	U	50.0	54.7		ug/L		109	78 - 124
1,1,1-Trichloroethane	0.29	U	50.0	52.3		ug/L		105	81 - 123
1,1,2-Trichloroethane	0.57	U	50.0	54.8		ug/L		110	76 - 119
Trichloroethene	0.29	U	50.0	50.4		ug/L		101	80 - 120
Trichlorofluoromethane	0.22	U	50.0	60.6		ug/L		121	79 - 128
1,2,3-Trichloropropane	0.56	U	50.0	56.0		ug/L		112	72 - 120
1,2,4-Trimethylbenzene	0.40	U	50.0	49.2		ug/L		98	80 - 120
1,3,5-Trimethylbenzene	0.28	U	50.0	48.4		ug/L		97	80 - 122
Vinyl acetate	0.61	U	50.0	59.5		ug/L		119	47 - 150
Vinyl chloride	0.43	U	50.0	56.1		ug/L		112	75 - 118
Xylenes, Total	0.85	U	100	96.7		ug/L		97	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*75 - 123*
1,2-Dichloroethane-d4 (Surr)	*130*	*X*	*78 - 127*
Toluene-d8 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*112*		*80 - 120*

Lab Sample ID: 680-96898-13 MSD
Matrix: Water
Analysis Batch: 90507

Client Sample ID: RINSATE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	6.7	U	50.0	71.4	F	ug/L		143	54 - 140	5	20
Acetonitrile	7.3	U	500	620		ug/L		124	71 - 135	0	20
Benzene	0.25	U	50.0	54.4		ug/L		109	72 - 123	6	20
Bromobenzene	0.33	U	50.0	50.1		ug/L		100	79 - 120	3	20
Bromodichloromethane	0.25	U	50.0	59.4		ug/L		119	80 - 120	5	20
Bromoform	0.37	U	50.0	56.4		ug/L		113	78 - 122	1	20
Bromomethane	0.40	U	50.0	74.2	F	ug/L		148	51 - 146	7	20
2-Butanone (MEK)	0.39	U	50.0	63.9		ug/L		128	62 - 135	2	20
Carbon disulfide	0.37	U	50.0	53.0		ug/L		106	80 - 120	4	20
Chlorobromomethane	0.55	U	50.0	55.4		ug/L		111	80 - 120	6	20
Carbon tetrachloride	0.36	U	50.0	53.3		ug/L		107	80 - 124	3	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-96898-13 MSD
Matrix: Water
Analysis Batch: 90507

Client Sample ID: RINSATE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene	0.38	U	50.0	52.9		ug/L		106	80 - 120	5	20
Chloroethane	0.38	U	50.0	66.9		ug/L		134	53 - 148	7	20
Chloroform	0.15	U	50.0	55.8		ug/L		112	80 - 120	4	20
Chloromethane	0.55	U	50.0	64.8	F	ug/L		130	80 - 120	8	20
2-Chlorotoluene	0.34	U	50.0	51.1		ug/L		102	80 - 120	4	20
4-Chlorotoluene	0.31	U	50.0	52.1		ug/L		104	77 - 120	3	20
Dibromochloromethane	0.33	U	50.0	57.3		ug/L		115	80 - 120	3	20
Dibromomethane	0.41	U	50.0	58.5		ug/L		117	80 - 120	2	20
1,2-Dichlorobenzene	0.28	U	50.0	52.7		ug/L		105	77 - 117	3	20
1,3-Dichlorobenzene	0.23	U	50.0	50.7		ug/L		101	80 - 120	3	20
1,4-Dichlorobenzene	0.35	U	50.0	51.8		ug/L		104	80 - 120	3	20
Dichlorodifluoromethane	0.45	U *	50.0	79.1	F	ug/L		158	70 - 131	7	20
1,1-Dichloroethane	0.39	U	50.0	54.9		ug/L		110	80 - 120	4	20
cis-1,2-Dichloroethene	0.16	U	50.0	53.4		ug/L		107	80 - 120	4	20
1,2-Dichloroethane	0.37	U	50.0	62.5	F	ug/L		125	80 - 120	3	20
1,1-Dichloroethene	0.37	U	50.0	52.0		ug/L		104	80 - 120	10	20
1,2-Dichloropropane	0.32	U	50.0	55.1		ug/L		110	80 - 120	5	20
1,3-Dichloropropane	0.24	U	50.0	55.9		ug/L		112	80 - 120	5	20
2,2-Dichloropropane	0.54	U	50.0	40.9		ug/L		82	81 - 128	2	20
cis-1,3-Dichloropropene	0.34	U	50.0	53.6		ug/L		107	80 - 120	5	20
1,1-Dichloropropene	0.30	U	50.0	54.0		ug/L		108	80 - 120	5	20
Ethylbenzene	0.30	U	50.0	48.9		ug/L		98	80 - 120	2	20
2-Hexanone	0.59	U	50.0	64.9		ug/L		130	65 - 136	9	20
Isopropylbenzene	0.26	U	50.0	49.5		ug/L		99	78 - 125	3	20
Cymene	0.32	U	50.0	49.5		ug/L		99	84 - 124	4	20
Methyl iodide	1.5	U	50.0	50.8		ug/L		102	77 - 125	4	20
Methylene Chloride	1.7	U	50.0	53.7		ug/L		107	80 - 120	4	20
4-Methyl-2-pentanone (MIBK)	0.33	U	50.0	63.9		ug/L		128	74 - 132	4	20
Methyl tert-butyl ether	0.40	U	50.0	59.1		ug/L		118	78 - 124	4	20
Naphthalene	0.85	U	50.0	62.6		ug/L		125	53 - 148	0	20
n-Butylbenzene	0.23	U	50.0	48.1		ug/L		96	81 - 125	4	20
N-Propylbenzene	0.30	U	50.0	49.5		ug/L		99	78 - 124	3	20
sec-Butylbenzene	0.31	U	50.0	48.0		ug/L		96	78 - 120	4	20
Styrene	0.35	U	50.0	53.1		ug/L		106	80 - 120	4	20
tert-Butylbenzene	0.31	U	50.0	52.2		ug/L		104	79 - 122	4	20
1,1,1,2-Tetrachloroethane	0.25	U	50.0	52.1		ug/L		104	80 - 120	2	20
1,1,2,2-Tetrachloroethane	0.43	U	50.0	55.8		ug/L		112	72 - 125	4	20
Tetrachloroethene	0.28	U	50.0	48.4		ug/L		97	80 - 120	5	20
Toluene	1.0	J	50.0	51.8		ug/L		101	80 - 120	3	20
trans-1,2-Dichloroethene	0.18	U	50.0	50.7		ug/L		101	80 - 120	4	20
trans-1,3-Dichloropropene	0.35	U	50.0	54.8		ug/L		110	77 - 122	0	20
1,2,3-Trichlorobenzene	0.65	U	50.0	57.2		ug/L		114	62 - 126	0	20
1,2,4-Trichlorobenzene	0.55	U	50.0	55.6		ug/L		111	78 - 124	2	20
1,1,1-Trichloroethane	0.29	U	50.0	53.8		ug/L		108	81 - 123	3	20
1,1,2-Trichloroethane	0.57	U	50.0	54.9		ug/L		110	76 - 119	0	20
Trichloroethene	0.29	U	50.0	52.8		ug/L		106	80 - 120	5	20
Trichlorofluoromethane	0.22	U	50.0	64.8	F	ug/L		130	79 - 128	7	20
1,2,3-Trichloropropane	0.56	U	50.0	57.5		ug/L		115	72 - 120	3	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-96898-13 MSD — **Client Sample ID: RINSATE**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 90507

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	0.40	U	50.0	50.8		ug/L		102	80 - 120	3	20
1,3,5-Trimethylbenzene	0.28	U	50.0	50.3		ug/L		101	80 - 122	4	20
Vinyl acetate	0.61	U	50.0	62.7		ug/L		125	47 - 150	5	20
Vinyl chloride	0.43	U	50.0	58.6		ug/L		117	75 - 118	4	20
Xylenes, Total	0.85	U	100	102		ug/L		102	80 - 120	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*75 - 123*
1,2-Dichloroethane-d4 (Surr)	*131*	*X*	*78 - 127*
Toluene-d8 (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*116*		*80 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-204860/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205429 — **Prep Batch: 204860**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	130	U	320	130	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Acetophenone	19	U	320	19	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Benzyl alcohol	9.7	U	320	9.7	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Benzoic acid	320	U	1500	320	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Bis(2-chloroethoxy)methane	22	U	320	22	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
4-Chloroaniline	79	U	320	79	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2-Chlorophenol	20	U	320	20	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
4-Chloro-3-methylphenol	64	U	320	64	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2,4-Dichlorophenol	9.7	U	320	9.7	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2-Chloronaphthalene	9.7	U	320	9.7	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2,4-Dimethylphenol	64	U	320	64	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Dimethyl phthalate	22	U	320	22	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Acenaphthylene	16	U	320	16	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2,6-Dinitrotoluene	27	U	320	27	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Acenaphthene	10	U	320	10	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2,4-Dinitrophenol	320	U	1500	320	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
1,4-Dioxane	64	U	640	64	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Dibenzofuran	19	U	320	19	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2,4-Dinitrotoluene	64	U	320	64	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Diethyl phthalate	25	U	640	25	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
4-Chlorophenyl phenyl ether	20	U	320	20	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Fluorene	17	U	320	17	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Hexachlorobutadiene	9.7	U	320	9.7	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Hexachlorocyclopentadiene	48	U	1500	48	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
1,2-Diphenyl-hydrazine	21	U	320	21	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Hexachloroethane	21	U	320	21	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Azobenzene	21	U	320	21	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Isophorone	16	U	320	16	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2-Methylnaphthalene	18	U	320	18	ug/Kg		12/11/13 18:54	12/16/13 13:34	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-204860/1-A
Matrix: Solid
Analysis Batch: 205429

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204860

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	18	U	320	18	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
3 & 4 Methylphenol	32	U	320	32	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Hexachlorobenzene	28	U	320	28	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Naphthalene	30	U	320	30	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2-Nitroaniline	48	U	1500	48	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
3-Nitroaniline	71	U	1500	71	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Anthracene	16	U	320	16	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
4-Nitroaniline	70	U	1500	70	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Carbazole	35	U	320	35	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Di-n-butyl phthalate	28	U	320	28	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Nitrobenzene	21	U	320	21	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Fluoranthene	35	U	320	35	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2-Nitrophenol	9.7	U	320	9.7	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
4-Nitrophenol	94	U	1500	94	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Butyl benzyl phthalate	42	U	320	42	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
N-Nitrosodi-n-propylamine	30	U	320	30	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Bis(2-ethylhexyl) phthalate	45	U	320	45	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
n-Nitrosodiphenylamine(as diphenylamine)	20	U	320	20	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
3,3'-Dichlorobenzidine	87	U	640	87	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Benzo[a]anthracene	19	U	320	19	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Pentachlorobenzene	63	U	320	63	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Chrysene	26	U	320	26	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Pentachlorophenol	320	U	1500	320	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Di-n-octyl phthalate	14	U	320	14	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Phenanthrene	16	U	320	16	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Benzo[b]fluoranthene	25	U	320	25	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Phenol	17	U	320	17	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Benzo[k]fluoranthene	39	U	320	39	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Benzo[a]pyrene	19	U	320	19	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Dibenz(a,h)anthracene	18	U	320	18	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Pyrene	12	U	320	12	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Indeno[1,2,3-cd]pyrene	21	U	320	21	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
1,2,4,5-Tetrachlorobenzene	47	U	320	47	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Benzo[g,h,i]perylene	15	U	320	15	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Bis(2-chloroethyl)ether	16	U	320	16	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2,2'-oxybis[1-chloropropane]	22	U	320	22	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2,4,5-Trichlorophenol	9.7	U	320	9.7	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
2,4,6-Trichlorophenol	9.7	U	320	9.7	ug/Kg		12/11/13 18:54	12/16/13 13:34	1
Phthalic acid	740	U	2400	740	ug/Kg		12/11/13 18:54	12/16/13 13:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*50 - 120*	*12/11/13 18:54*	*12/16/13 13:34*	*1*
2-Fluorophenol	*83*		*53 - 120*	*12/11/13 18:54*	*12/16/13 13:34*	*1*
Nitrobenzene-d5	*85*		*50 - 120*	*12/11/13 18:54*	*12/16/13 13:34*	*1*
Phenol-d5	*84*		*52 - 120*	*12/11/13 18:54*	*12/16/13 13:34*	*1*
Terphenyl-d14	*91*		*55 - 120*	*12/11/13 18:54*	*12/16/13 13:34*	*1*
2,4,6-Tribromophenol	*78*		*51 - 120*	*12/11/13 18:54*	*12/16/13 13:34*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-204860/2-A
Matrix: Solid
Analysis Batch: 205429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204860

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	2610	732		ug/Kg		28	10 - 120
Benzyl alcohol	2610	2320		ug/Kg		89	51 - 120
Benzoic acid	2610	2280		ug/Kg		88	32 - 120
Bis(2-chloroethoxy)methane	2610	2280		ug/Kg		87	56 - 120
4-Chloroaniline	2610	928		ug/Kg		36	28 - 120
2-Chlorophenol	2610	2280		ug/Kg		88	57 - 120
4-Chloro-3-methylphenol	2610	2330		ug/Kg		90	63 - 120
2,4-Dichlorophenol	2610	2270		ug/Kg		87	60 - 120
2-Chloronaphthalene	2610	2280		ug/Kg		88	59 - 120
2,4-Dimethylphenol	2610	2130		ug/Kg		82	54 - 120
Dimethyl phthalate	2610	2500		ug/Kg		96	65 - 120
Acenaphthylene	2610	2400		ug/Kg		92	64 - 120
2,6-Dinitrotoluene	2610	2530		ug/Kg		97	64 - 120
Acenaphthene	2610	2350		ug/Kg		90	60 - 120
2,4-Dinitrophenol	5210	5070		ug/Kg		97	46 - 120
Dibenzofuran	2610	2350		ug/Kg		90	61 - 120
2,4-Dinitrotoluene	2610	2660		ug/Kg		102	68 - 120
Diethyl phthalate	2610	2510		ug/Kg		96	66 - 120
4-Chlorophenyl phenyl ether	2610	2410		ug/Kg		93	64 - 120
Fluorene	2610	2440		ug/Kg		93	64 - 120
Hexachlorobutadiene	2610	2180		ug/Kg		84	53 - 120
Hexachlorocyclopentadiene	2610	2230		ug/Kg		86	47 - 120
1,2-Diphenyl-hydrazine	2630	2440		ug/Kg		93	61 - 120
Hexachloroethane	2610	2160		ug/Kg		83	51 - 120
Isophorone	2610	2200		ug/Kg		84	56 - 120
2-Methylnaphthalene	2610	2280		ug/Kg		88	57 - 120
4-Bromophenyl phenyl ether	2610	2460		ug/Kg		95	64 - 120
3 & 4 Methylphenol	2610	2200		ug/Kg		85	53 - 120
Hexachlorobenzene	2610	2430		ug/Kg		93	62 - 120
Naphthalene	2610	2230		ug/Kg		86	57 - 120
2-Nitroaniline	2610	2470		ug/Kg		95	63 - 120
3-Nitroaniline	2610	1440	J	ug/Kg		55	47 - 120
Anthracene	2610	2420		ug/Kg		93	63 - 120
4-Nitroaniline	2610	2290		ug/Kg		88	64 - 120
Carbazole	2610	2470		ug/Kg		95	64 - 120
Di-n-butyl phthalate	2610	2580		ug/Kg		99	67 - 120
Nitrobenzene	2610	2250		ug/Kg		86	54 - 120
Fluoranthene	2610	2520		ug/Kg		97	66 - 120
2-Nitrophenol	2610	2400		ug/Kg		92	56 - 120
4-Nitrophenol	5210	5080		ug/Kg		98	63 - 121
Butyl benzyl phthalate	2610	2680		ug/Kg		103	65 - 120
N-Nitrosodi-n-propylamine	2610	2290		ug/Kg		88	51 - 120
Bis(2-ethylhexyl) phthalate	2610	2790		ug/Kg		107	65 - 120
n-Nitrosodiphenylamine(as diphenylamine)	2610	2250		ug/Kg		86	61 - 120
3,3'-Dichlorobenzidine	2610	1600		ug/Kg		61	30 - 120
Benzo[a]anthracene	2610	2490		ug/Kg		96	65 - 120
Chrysene	2610	2450		ug/Kg		94	64 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-204860/2-A
Matrix: Solid
Analysis Batch: 205429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204860

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	5210	4880		ug/Kg		94	56 - 120
Di-n-octyl phthalate	2610	2680		ug/Kg		103	66 - 120
Phenanthrene	2610	2450		ug/Kg		94	64 - 120
Benzo[b]fluoranthene	2610	2620		ug/Kg		100	47 - 129
Phenol	2610	2250		ug/Kg		86	56 - 120
Benzo[k]fluoranthene	2610	2430		ug/Kg		93	48 - 130
Benzo[a]pyrene	2610	2540		ug/Kg		98	59 - 120
Dibenz(a,h)anthracene	2610	2740		ug/Kg		105	50 - 133
Pyrene	2610	2430		ug/Kg		93	64 - 120
Indeno[1,2,3-cd]pyrene	2610	2560		ug/Kg		98	63 - 120
Benzo[g,h,i]perylene	2610	2600		ug/Kg		100	55 - 126
Bis(2-chloroethyl)ether	2610	2350		ug/Kg		90	51 - 120
2,2'-oxybis[1-chloropropane]	2610	2250		ug/Kg		86	49 - 120
2,4,5-Trichlorophenol	2610	2350		ug/Kg		90	64 - 120
2,4,6-Trichlorophenol	2610	2450		ug/Kg		94	61 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*84*		*50 - 120*
2-Fluorophenol	*83*		*53 - 120*
Nitrobenzene-d5	*83*		*50 - 120*
Phenol-d5	*84*		*52 - 120*
Terphenyl-d14	*93*		*55 - 120*
2,4,6-Tribromophenol	*93*		*51 - 120*

Lab Sample ID: 680-96898-4 MS
Matrix: Solid
Analysis Batch: 205429

Client Sample ID: K53-B-1_SUB
Prep Type: Total/NA
Prep Batch: 204860

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	11	U	2780	2340		ug/Kg	☼	84	60 - 120
Acenaphthylene	18	U	2780	2380		ug/Kg	☼	86	64 - 120
Aniline	140	U	2780	1250		ug/Kg	☼	45	10 - 120
Anthracene	18	U	2780	2420		ug/Kg	☼	87	63 - 120
Benzo[a]anthracene	21	U	2780	2520		ug/Kg	☼	91	65 - 120
Benzo[a]pyrene	21	U	2780	2590		ug/Kg	☼	93	59 - 120
Benzo[b]fluoranthene	28	U	2780	2630		ug/Kg	☼	95	47 - 129
Benzo[g,h,i]perylene	17	U	2780	2660		ug/Kg	☼	96	55 - 126
Benzoic acid	350	U	2780	1050	J	ug/Kg	☼	38	32 - 120
Benzo[k]fluoranthene	42	U	2780	2450		ug/Kg	☼	88	48 - 130
Benzyl alcohol	11	U	2780	2350		ug/Kg	☼	85	51 - 120
Bis(2-chloroethoxy)methane	24	U	2780	2330		ug/Kg	☼	84	56 - 120
Bis(2-chloroethyl)ether	18	U	2780	2420		ug/Kg	☼	87	51 - 120
Bis(2-ethylhexyl) phthalate	49	U	2780	2890		ug/Kg	☼	104	65 - 120
4-Bromophenyl phenyl ether	20	U	2780	2410		ug/Kg	☼	87	64 - 120
Butyl benzyl phthalate	46	U	2780	2750		ug/Kg	☼	99	65 - 120
Carbazole	38	U	2780	2480		ug/Kg	☼	89	64 - 120
4-Chloroaniline	87	U	2780	1560		ug/Kg	☼	56	28 - 120
4-Chloro-3-methylphenol	70	U	2780	2340		ug/Kg	☼	84	63 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-96898-4 MS
Matrix: Solid
Analysis Batch: 205429

Client Sample ID: K53-B-1_SUB
Prep Type: Total/NA
Prep Batch: 204860

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	11	U	2780	2260		ug/Kg	☼	81	59 - 120
2-Chlorophenol	22	U	2780	2300		ug/Kg	☼	83	57 - 120
4-Chlorophenyl phenyl ether	22	U	2780	2340		ug/Kg	☼	84	64 - 120
Chrysene	29	U	2780	2500		ug/Kg	☼	90	64 - 120
Dibenz(a,h)anthracene	20	U	2780	2790		ug/Kg	☼	101	50 - 133
Dibenzofuran	21	U	2780	2320		ug/Kg	☼	84	61 - 120
3,3'-Dichlorobenzidine	95	U	2780	2470		ug/Kg	☼	89	30 - 120
2,4-Dichlorophenol	11	U	2780	2310		ug/Kg	☼	83	60 - 120
Diethyl phthalate	28	U	2780	2450		ug/Kg	☼	88	66 - 120
2,4-Dimethylphenol	70	U	2780	2190		ug/Kg	☼	79	54 - 120
Dimethyl phthalate	340	J	2780	2530		ug/Kg	☼	79	65 - 120
Di-n-butyl phthalate	31	U	2780	2550		ug/Kg	☼	92	67 - 120
2,4-Dinitrophenol	350	U	5550	3030		ug/Kg	☼	55	46 - 120
2,4-Dinitrotoluene	70	U	2780	2610		ug/Kg	☼	94	68 - 120
2,6-Dinitrotoluene	30	U	2780	2440		ug/Kg	☼	88	64 - 120
Di-n-octyl phthalate	15	U	2780	2840		ug/Kg	☼	102	66 - 120
1,2-Diphenyl-hydrazine	23	U	2810	2420		ug/Kg	☼	86	61 - 120
Fluoranthene	38	U	2780	2520		ug/Kg	☼	91	66 - 120
Fluorene	19	U	2780	2400		ug/Kg	☼	87	64 - 120
Hexachlorobenzene	31	U	2780	2430		ug/Kg	☼	88	62 - 120
Hexachlorobutadiene	11	U	2780	2260		ug/Kg	☼	81	53 - 120
Hexachlorocyclopentadiene	53	U	2780	2050		ug/Kg	☼	74	47 - 120
Hexachloroethane	23	U	2780	2200		ug/Kg	☼	79	51 - 120
Indeno[1,2,3-cd]pyrene	23	U	2780	2810		ug/Kg	☼	101	63 - 120
Isophorone	18	U	2780	2230		ug/Kg	☼	81	56 - 120
2-Methylnaphthalene	20	U	2780	2300		ug/Kg	☼	83	57 - 120
3 & 4 Methylphenol	35	U	2780	2250		ug/Kg	☼	81	53 - 120
Naphthalene	33	U	2780	2270		ug/Kg	☼	82	57 - 120
2-Nitroaniline	53	U	2780	2440		ug/Kg	☼	88	63 - 120
3-Nitroaniline	77	U	2780	1970		ug/Kg	☼	71	47 - 120
4-Nitroaniline	77	U	2780	2400		ug/Kg	☼	87	64 - 120
Nitrobenzene	23	U	2780	2330		ug/Kg	☼	84	54 - 120
2-Nitrophenol	11	U	2780	2460		ug/Kg	☼	89	56 - 120
4-Nitrophenol	100	U	5550	5020		ug/Kg	☼	90	63 - 121
N-Nitrosodi-n-propylamine	33	U	2780	2320		ug/Kg	☼	83	51 - 120
n-Nitrosodiphenylamine(as diphenylamine)	22	U	2780	2240		ug/Kg	☼	81	61 - 120
2,2'-oxybis[1-chloropropane]	24	U	2780	2360		ug/Kg	☼	85	49 - 120
Pentachlorophenol	350	U	5550	3900		ug/Kg	☼	70	56 - 120
Phenanthrene	18	U	2780	2420		ug/Kg	☼	87	64 - 120
Phenol	19	U	2780	2270		ug/Kg	☼	82	56 - 120
Pyrene	13	U	2780	2500		ug/Kg	☼	90	64 - 120
2,4,5-Trichlorophenol	11	U	2780	2310		ug/Kg	☼	83	64 - 120
2,4,6-Trichlorophenol	11	U	2780	2360		ug/Kg	☼	85	61 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*78*		*50 - 120*
2-Fluorophenol	*79*		*53 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-96898-4 MS
Matrix: Solid
Analysis Batch: 205429

Client Sample ID: K53-B-1_SUB
Prep Type: Total/NA
Prep Batch: 204860

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5	*79*		*50 - 120*
Phenol-d5	*78*		*52 - 120*
Terphenyl-d14	*87*		*55 - 120*
2,4,6-Tribromophenol	*83*		*51 - 120*

Lab Sample ID: 680-96898-4 MSD
Matrix: Solid
Analysis Batch: 205429

Client Sample ID: K53-B-1_SUB
Prep Type: Total/NA
Prep Batch: 204860

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	11	U	2820	2430		ug/Kg	☼	86	60 - 120	4	30
Acenaphthylene	18	U	2820	2490		ug/Kg	☼	88	64 - 120	5	30
Aniline	140	U	2820	1170		ug/Kg	☼	42	10 - 120	6	30
Anthracene	18	U	2820	2500		ug/Kg	☼	88	63 - 120	3	30
Benzo[a]anthracene	21	U	2820	2590		ug/Kg	☼	92	65 - 120	2	30
Benzo[a]pyrene	21	U	2820	2620		ug/Kg	☼	93	59 - 120	1	30
Benzo[b]fluoranthene	28	U	2820	2630		ug/Kg	☼	93	47 - 129	0	44
Benzo[g,h,i]perylene	17	U	2820	2690		ug/Kg	☼	95	55 - 126	1	31
Benzoic acid	350	U	2820	1160	J	ug/Kg	☼	41	32 - 120	10	32
Benzo[k]fluoranthene	42	U	2820	2510		ug/Kg	☼	89	48 - 130	2	30
Benzyl alcohol	11	U	2820	2450		ug/Kg	☼	87	51 - 120	4	30
Bis(2-chloroethoxy)methane	24	U	2820	2440		ug/Kg	☼	87	56 - 120	5	30
Bis(2-chloroethyl)ether	18	U	2820	2500		ug/Kg	☼	88	51 - 120	3	30
Bis(2-ethylhexyl) phthalate	49	U	2820	2940		ug/Kg	☼	104	65 - 120	2	30
4-Bromophenyl phenyl ether	20	U	2820	2550		ug/Kg	☼	90	64 - 120	6	30
Butyl benzyl phthalate	46	U	2820	2770		ug/Kg	☼	98	65 - 120	1	30
Carbazole	38	U	2820	2610		ug/Kg	☼	93	64 - 120	5	30
4-Chloroaniline	87	U	2820	1530		ug/Kg	☼	54	28 - 120	2	30
4-Chloro-3-methylphenol	70	U	2820	2450		ug/Kg	☼	87	63 - 120	5	30
2-Chloronaphthalene	11	U	2820	2380		ug/Kg	☼	84	59 - 120	5	30
2-Chlorophenol	22	U	2820	2350		ug/Kg	☼	83	57 - 120	2	30
4-Chlorophenyl phenyl ether	22	U	2820	2440		ug/Kg	☼	87	64 - 120	4	30
Chrysene	29	U	2820	2560		ug/Kg	☼	91	64 - 120	2	35
Dibenz(a,h)anthracene	20	U	2820	2830		ug/Kg	☼	100	50 - 133	1	30
Dibenzofuran	21	U	2820	2430		ug/Kg	☼	86	61 - 120	4	30
3,3'-Dichlorobenzidine	95	U	2820	2420		ug/Kg	☼	86	30 - 120	2	30
2,4-Dichlorophenol	11	U	2820	2410		ug/Kg	☼	85	60 - 120	4	30
Diethyl phthalate	28	U	2820	2560		ug/Kg	☼	91	66 - 120	4	30
2,4-Dimethylphenol	70	U	2820	2280		ug/Kg	☼	81	54 - 120	4	30
Dimethyl phthalate	340	J	2820	2620		ug/Kg	☼	81	65 - 120	4	30
Di-n-butyl phthalate	31	U	2820	2680		ug/Kg	☼	95	67 - 120	5	30
2,4-Dinitrophenol	350	U	5640	3400		ug/Kg	☼	60	46 - 120	11	34
2,4-Dinitrotoluene	70	U	2820	2640		ug/Kg	☼	93	68 - 120	1	30
2,6-Dinitrotoluene	30	U	2820	2600		ug/Kg	☼	92	64 - 120	6	30
Di-n-octyl phthalate	15	U	2820	2890		ug/Kg	☼	103	66 - 120	2	30
1,2-Diphenyl-hydrazine	23	U	2850	2500		ug/Kg	☼	88	61 - 120	3	30
Fluoranthene	38	U	2820	2640		ug/Kg	☼	93	66 - 120	5	30
Fluorene	19	U	2820	2480		ug/Kg	☼	88	64 - 120	3	30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-96898-4 MSD — **Client Sample ID: K53-B-1_SUB**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205429 — **Prep Batch: 204860**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobenzene	31	U	2820	2540		ug/Kg	☼	90	62 - 120	5	30
Hexachlorobutadiene	11	U	2820	2310		ug/Kg	☼	82	53 - 120	2	30
Hexachlorocyclopentadiene	53	U	2820	2020		ug/Kg	☼	72	47 - 120	1	30
Hexachloroethane	23	U	2820	2170		ug/Kg	☼	77	51 - 120	1	30
Indeno[1,2,3-cd]pyrene	23	U	2820	2840		ug/Kg	☼	101	63 - 120	1	30
Isophorone	18	U	2820	2310		ug/Kg	☼	82	56 - 120	3	30
2-Methylnaphthalene	20	U	2820	2390		ug/Kg	☼	85	57 - 120	4	30
3 & 4 Methylphenol	35	U	2820	2370		ug/Kg	☼	84	53 - 120	5	30
Naphthalene	33	U	2820	2330		ug/Kg	☼	83	57 - 120	2	30
2-Nitroaniline	53	U	2820	2590		ug/Kg	☼	92	63 - 120	6	30
3-Nitroaniline	77	U	2820	2040		ug/Kg	☼	73	47 - 120	4	30
4-Nitroaniline	77	U	2820	2480		ug/Kg	☼	88	64 - 120	3	30
Nitrobenzene	23	U	2820	2370		ug/Kg	☼	84	54 - 120	2	30
2-Nitrophenol	11	U	2820	2560		ug/Kg	☼	91	56 - 120	4	30
4-Nitrophenol	100	U	5640	5230		ug/Kg	☼	93	63 - 121	4	30
N-Nitrosodi-n-propylamine	33	U	2820	2350		ug/Kg	☼	83	51 - 120	2	30
n-Nitrosodiphenylamine(as diphenylamine)	22	U	2820	2320		ug/Kg	☼	82	61 - 120	4	36
2,2'-oxybis[1-chloropropane]	24	U	2820	2440		ug/Kg	☼	86	49 - 120	3	30
Pentachlorophenol	350	U	5640	4230		ug/Kg	☼	75	56 - 120	8	30
Phenanthrene	18	U	2820	2530		ug/Kg	☼	90	64 - 120	4	30
Phenol	19	U	2820	2380		ug/Kg	☼	85	56 - 120	5	30
Pyrene	13	U	2820	2540		ug/Kg	☼	90	64 - 120	2	38
2,4,5-Trichlorophenol	11	U	2820	2440		ug/Kg	☼	87	64 - 120	6	30
2,4,6-Trichlorophenol	11	U	2820	2520		ug/Kg	☼	89	61 - 120	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*81*		*50 - 120*
2-Fluorophenol	*81*		*53 - 120*
Nitrobenzene-d5	*82*		*50 - 120*
Phenol-d5	*81*		*52 - 120*
Terphenyl-d14	*90*		*55 - 120*
2,4,6-Tribromophenol	*86*		*51 - 120*

Lab Sample ID: MB 280-204881/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 205553 — **Prep Batch: 204881**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 14:10	1
Acetophenone	0.24	U	10	0.24	ug/L		12/11/13 18:50	12/17/13 14:10	1
Benzyl alcohol	0.23	U	10	0.23	ug/L		12/11/13 18:50	12/17/13 14:10	1
Benzoic acid	10	U	25	10	ug/L		12/11/13 18:50	12/17/13 14:10	1
Bis(2-chloroethoxy)methane	0.97	U	10	0.97	ug/L		12/11/13 18:50	12/17/13 14:10	1
4-Chloroaniline	2.1	U	10	2.1	ug/L		12/11/13 18:50	12/17/13 14:10	1
2-Chlorophenol	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 14:10	1
4-Chloro-3-methylphenol	2.4	U	10	2.4	ug/L		12/11/13 18:50	12/17/13 14:10	1
2,4-Dichlorophenol	0.64	U	10	0.64	ug/L		12/11/13 18:50	12/17/13 14:10	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-204881/1-A
Matrix: Water
Analysis Batch: 205553

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	0.26	U	4.0	0.26	ug/L		12/11/13 18:50	12/17/13 14:10	1
2,4-Dimethylphenol	0.58	U	10	0.58	ug/L		12/11/13 18:50	12/17/13 14:10	1
Dimethyl phthalate	0.21	U	4.0	0.21	ug/L		12/11/13 18:50	12/17/13 14:10	1
Acenaphthylene	0.49	U	4.0	0.49	ug/L		12/11/13 18:50	12/17/13 14:10	1
2,6-Dinitrotoluene	1.9	U	10	1.9	ug/L		12/11/13 18:50	12/17/13 14:10	1
Acenaphthene	0.28	U	4.0	0.28	ug/L		12/11/13 18:50	12/17/13 14:10	1
2,4-Dinitrophenol	10	U	30	10	ug/L		12/11/13 18:50	12/17/13 14:10	1
1,4-Dioxane	1.7	U	20	1.7	ug/L		12/11/13 18:50	12/17/13 14:10	1
Dibenzofuran	0.29	U	4.0	0.29	ug/L		12/11/13 18:50	12/17/13 14:10	1
2,4-Dinitrotoluene	1.7	U	10	1.7	ug/L		12/11/13 18:50	12/17/13 14:10	1
Diethyl phthalate	0.38	U	4.0	0.38	ug/L		12/11/13 18:50	12/17/13 14:10	1
4-Chlorophenyl phenyl ether	1.7	U	10	1.7	ug/L		12/11/13 18:50	12/17/13 14:10	1
Fluorene	0.31	U	4.0	0.31	ug/L		12/11/13 18:50	12/17/13 14:10	1
Hexachlorobutadiene	3.3	U	10	3.3	ug/L		12/11/13 18:50	12/17/13 14:10	1
Hexachlorocyclopentadiene	10	U	50	10	ug/L		12/11/13 18:50	12/17/13 14:10	1
1,2-Diphenyl-hydrazine	0.23	U	10	0.23	ug/L		12/11/13 18:50	12/17/13 14:10	1
Hexachloroethane	2.1	U	10	2.1	ug/L		12/11/13 18:50	12/17/13 14:10	1
Azobenzene	0.23	U	4.0	0.23	ug/L		12/11/13 18:50	12/17/13 14:10	1
Isophorone	0.21	U	10	0.21	ug/L		12/11/13 18:50	12/17/13 14:10	1
2-Methylnaphthalene	0.29	U	4.0	0.29	ug/L		12/11/13 18:50	12/17/13 14:10	1
4-Bromophenyl phenyl ether	0.43	U	10	0.43	ug/L		12/11/13 18:50	12/17/13 14:10	1
3 & 4 Methylphenol	0.25	U	10	0.25	ug/L		12/11/13 18:50	12/17/13 14:10	1
Hexachlorobenzene	0.66	U	10	0.66	ug/L		12/11/13 18:50	12/17/13 14:10	1
Naphthalene	0.29	U	4.0	0.29	ug/L		12/11/13 18:50	12/17/13 14:10	1
2-Nitroaniline	1.7	U	10	1.7	ug/L		12/11/13 18:50	12/17/13 14:10	1
3-Nitroaniline	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 14:10	1
Anthracene	0.42	U	4.0	0.42	ug/L		12/11/13 18:50	12/17/13 14:10	1
4-Nitroaniline	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 14:10	1
Carbazole	0.43	U	4.0	0.43	ug/L		12/11/13 18:50	12/17/13 14:10	1
Di-n-butyl phthalate	1.2	U	4.0	1.2	ug/L		12/11/13 18:50	12/17/13 14:10	1
Nitrobenzene	0.81	U	10	0.81	ug/L		12/11/13 18:50	12/17/13 14:10	1
Fluoranthene	0.20	U	4.0	0.20	ug/L		12/11/13 18:50	12/17/13 14:10	1
2-Nitrophenol	0.39	U	10	0.39	ug/L		12/11/13 18:50	12/17/13 14:10	1
4-Nitrophenol	1.2	U	10	1.2	ug/L		12/11/13 18:50	12/17/13 14:10	1
Butyl benzyl phthalate	1.0	U	4.0	1.0	ug/L		12/11/13 18:50	12/17/13 14:10	1
N-Nitrosodi-n-propylamine	0.35	U	10	0.35	ug/L		12/11/13 18:50	12/17/13 14:10	1
Bis(2-ethylhexyl) phthalate	0.56	U	10	0.56	ug/L		12/11/13 18:50	12/17/13 14:10	1
n-Nitrosodiphenylamine(as diphenylamine)	0.44	U	10	0.44	ug/L		12/11/13 18:50	12/17/13 14:10	1
3,3'-Dichlorobenzidine	2.0	U	50	2.0	ug/L		12/11/13 18:50	12/17/13 14:10	1
Benzo[a]anthracene	0.35	U	4.0	0.35	ug/L		12/11/13 18:50	12/17/13 14:10	1
Pentachlorobenzene	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 14:10	1
Chrysene	0.54	U	4.0	0.54	ug/L		12/11/13 18:50	12/17/13 14:10	1
Pentachlorophenol	20	U	50	20	ug/L		12/11/13 18:50	12/17/13 14:10	1
Di-n-octyl phthalate	0.35	U	4.0	0.35	ug/L		12/11/13 18:50	12/17/13 14:10	1
Phenanthrene	0.26	U	4.0	0.26	ug/L		12/11/13 18:50	12/17/13 14:10	1
Benzo[b]fluoranthene	0.53	U	4.0	0.53	ug/L		12/11/13 18:50	12/17/13 14:10	1
Phenol	2.0	U	10	2.0	ug/L		12/11/13 18:50	12/17/13 14:10	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-204881/1-A
Matrix: Water
Analysis Batch: 205553

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	0.46	U	4.0	0.46	ug/L		12/11/13 18:50	12/17/13 14:10	1
Benzo[a]pyrene	0.31	U	4.0	0.31	ug/L		12/11/13 18:50	12/17/13 14:10	1
Dibenz(a,h)anthracene	0.51	U	4.0	0.51	ug/L		12/11/13 18:50	12/17/13 14:10	1
Pyrene	0.37	U	10	0.37	ug/L		12/11/13 18:50	12/17/13 14:10	1
Indeno[1,2,3-cd]pyrene	0.65	U	4.0	0.65	ug/L		12/11/13 18:50	12/17/13 14:10	1
1,2,4,5-Tetrachlorobenzene	1.7	U	10	1.7	ug/L		12/11/13 18:50	12/17/13 14:10	1
Benzo[g,h,i]perylene	0.50	U	4.0	0.50	ug/L		12/11/13 18:50	12/17/13 14:10	1
Bis(2-chloroethyl)ether	0.41	U	10	0.41	ug/L		12/11/13 18:50	12/17/13 14:10	1
2,2'-oxybis[1-chloropropane]	0.28	U	10	0.28	ug/L		12/11/13 18:50	12/17/13 14:10	1
2,4,5-Trichlorophenol	0.45	U	10	0.45	ug/L		12/11/13 18:50	12/17/13 14:10	1
2,4,6-Trichlorophenol	0.29	U	10	0.29	ug/L		12/11/13 18:50	12/17/13 14:10	1
Phthalic acid	5.8	U	400	5.8	ug/L		12/11/13 18:50	12/17/13 14:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*48 - 104*	*12/11/13 18:50*	*12/17/13 14:10*	*1*
2-Fluorophenol	*82*		*41 - 117*	*12/11/13 18:50*	*12/17/13 14:10*	*1*
Nitrobenzene-d5	*89*		*52 - 113*	*12/11/13 18:50*	*12/17/13 14:10*	*1*
Phenol-d5	*84*		*46 - 120*	*12/11/13 18:50*	*12/17/13 14:10*	*1*
Terphenyl-d14	*100*		*41 - 138*	*12/11/13 18:50*	*12/17/13 14:10*	*1*
2,4,6-Tribromophenol	*84*		*48 - 126*	*12/11/13 18:50*	*12/17/13 14:10*	*1*

Lab Sample ID: LCS 280-204881/2-A
Matrix: Water
Analysis Batch: 205553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204881

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aniline	80.0	39.3		ug/L		49	40 - 120
Benzyl alcohol	80.0	66.2		ug/L		83	58 - 120
Benzoic acid	80.0	34.7		ug/L		43	41 - 120
Bis(2-chloroethoxy)methane	80.0	68.5		ug/L		86	64 - 120
4-Chloroaniline	80.0	48.4		ug/L		61	53 - 120
2-Chlorophenol	80.0	66.8		ug/L		83	58 - 120
4-Chloro-3-methylphenol	80.0	72.8		ug/L		91	69 - 120
2,4-Dichlorophenol	80.0	70.0		ug/L		87	62 - 120
2-Chloronaphthalene	80.0	68.2		ug/L		85	51 - 120
2,4-Dimethylphenol	80.0	55.0		ug/L		69	44 - 120
Dimethyl phthalate	80.0	75.0		ug/L		94	73 - 120
Acenaphthylene	80.0	68.2		ug/L		85	63 - 120
2,6-Dinitrotoluene	80.0	77.7		ug/L		97	73 - 120
Acenaphthene	80.0	70.9		ug/L		89	61 - 120
2,4-Dinitrophenol	160	136		ug/L		85	50 - 123
Dibenzofuran	80.0	72.1		ug/L		90	64 - 120
2,4-Dinitrotoluene	80.0	78.3		ug/L		98	76 - 120
Diethyl phthalate	80.0	76.3		ug/L		95	73 - 120
4-Chlorophenyl phenyl ether	80.0	73.9		ug/L		92	67 - 120
Fluorene	80.0	74.3		ug/L		93	68 - 120
Hexachlorobutadiene	80.0	57.8		ug/L		72	24 - 120
Hexachlorocyclopentadiene	80.0	13.4	J	ug/L		17	10 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-204881/2-A
Matrix: Water
Analysis Batch: 205553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204881

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenyl-hydrazine	80.9	71.4		ug/L		88	65 - 120
Hexachloroethane	80.0	51.4		ug/L		64	21 - 120
Isophorone	80.0	65.6		ug/L		82	65 - 120
2-Methylnaphthalene	80.0	68.4		ug/L		86	42 - 120
4-Bromophenyl phenyl ether	80.0	74.7		ug/L		93	69 - 120
3 & 4 Methylphenol	80.0	67.6		ug/L		84	58 - 120
Hexachlorobenzene	80.0	76.2		ug/L		95	69 - 120
Naphthalene	80.0	66.7		ug/L		83	39 - 120
2-Nitroaniline	80.0	74.7		ug/L		93	70 - 120
3-Nitroaniline	80.0	54.9		ug/L		69	62 - 126
Anthracene	80.0	71.7		ug/L		90	71 - 120
4-Nitroaniline	80.0	67.9		ug/L		85	70 - 120
Carbazole	80.0	75.8		ug/L		95	72 - 120
Di-n-butyl phthalate	80.0	75.3		ug/L		94	75 - 120
Nitrobenzene	80.0	69.9		ug/L		87	59 - 120
Fluoranthene	80.0	77.4		ug/L		97	73 - 120
2-Nitrophenol	80.0	72.2		ug/L		90	59 - 120
4-Nitrophenol	160	142		ug/L		89	59 - 129
Butyl benzyl phthalate	80.0	69.7		ug/L		87	71 - 120
N-Nitrosodi-n-propylamine	80.0	68.7		ug/L		86	58 - 120
Bis(2-ethylhexyl) phthalate	80.0	72.8		ug/L		91	62 - 133
n-Nitrosodiphenylamine(as diphenylamine)	80.0	68.8		ug/L		86	66 - 120
3,3'-Dichlorobenzidine	80.0	42.7	J	ug/L		53	10 - 120
Benzo[a]anthracene	80.0	72.1		ug/L		90	71 - 120
Chrysene	80.0	71.6		ug/L		89	69 - 120
Pentachlorophenol	160	136		ug/L		85	57 - 120
Di-n-octyl phthalate	80.0	74.1		ug/L		93	71 - 120
Phenanthrene	80.0	74.6		ug/L		93	71 - 120
Benzo[b]fluoranthene	80.0	76.0		ug/L		95	65 - 120
Phenol	80.0	66.9		ug/L		84	61 - 120
Benzo[k]fluoranthene	80.0	73.2		ug/L		91	66 - 120
Benzo[a]pyrene	80.0	71.8		ug/L		90	63 - 120
Dibenz(a,h)anthracene	80.0	74.7		ug/L		93	63 - 120
Pyrene	80.0	70.6		ug/L		88	71 - 120
Indeno[1,2,3-cd]pyrene	80.0	71.9		ug/L		90	63 - 120
Benzo[g,h,i]perylene	80.0	70.6		ug/L		88	69 - 120
Bis(2-chloroethyl)ether	80.0	68.1		ug/L		85	60 - 120
2,2'-oxybis[1-chloropropane]	80.0	64.2		ug/L		80	49 - 120
2,4,5-Trichlorophenol	80.0	71.4		ug/L		89	64 - 120
2,4,6-Trichlorophenol	80.0	71.3		ug/L		89	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*89*		*48 - 104*
2-Fluorophenol	*78*		*41 - 117*
Nitrobenzene-d5	*85*		*52 - 113*
Phenol-d5	*83*		*46 - 120*
Terphenyl-d14	*95*		*41 - 138*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-204881/2-A
Matrix: Water
Analysis Batch: 205553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204881

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*99*		*48 - 126*

Lab Sample ID: LCSD 280-204881/3-A
Matrix: Water
Analysis Batch: 205553

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 204881

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	80.0	40.1		ug/L		50	40 - 120	2	30
Benzyl alcohol	80.0	68.8		ug/L		86	58 - 120	4	30
Benzoic acid	80.0	39.7		ug/L		50	41 - 120	14	72
Bis(2-chloroethoxy)methane	80.0	70.4		ug/L		88	64 - 120	3	30
4-Chloroaniline	80.0	47.6		ug/L		60	53 - 120	2	54
2-Chlorophenol	80.0	70.9		ug/L		89	58 - 120	6	30
4-Chloro-3-methylphenol	80.0	74.0		ug/L		93	69 - 120	2	30
2,4-Dichlorophenol	80.0	70.3		ug/L		88	62 - 120	1	30
2-Chloronaphthalene	80.0	68.4		ug/L		85	51 - 120	0	30
2,4-Dimethylphenol	80.0	58.3		ug/L		73	44 - 120	6	30
Dimethyl phthalate	80.0	76.5		ug/L		96	73 - 120	2	30
Acenaphthylene	80.0	68.5		ug/L		86	63 - 120	0	30
2,6-Dinitrotoluene	80.0	77.2		ug/L		96	73 - 120	1	30
Acenaphthene	80.0	72.2		ug/L		90	61 - 120	2	30
2,4-Dinitrophenol	160	141		ug/L		88	50 - 123	4	49
Dibenzofuran	80.0	72.1		ug/L		90	64 - 120	0	30
2,4-Dinitrotoluene	80.0	79.4		ug/L		99	76 - 120	1	32
Diethyl phthalate	80.0	79.1		ug/L		99	73 - 120	4	30
4-Chlorophenyl phenyl ether	80.0	73.8		ug/L		92	67 - 120	0	30
Fluorene	80.0	74.2		ug/L		93	68 - 120	0	30
Hexachlorobutadiene	80.0	56.2		ug/L		70	24 - 120	3	47
Hexachlorocyclopentadiene	80.0	10	U	ug/L		12	10 - 120	32	72
1,2-Diphenyl-hydrazine	80.9	72.8		ug/L		90	65 - 120	2	30
Hexachloroethane	80.0	55.2		ug/L		69	21 - 120	7	57
Isophorone	80.0	66.6		ug/L		83	65 - 120	2	30
2-Methylnaphthalene	80.0	67.9		ug/L		85	42 - 120	1	32
4-Bromophenyl phenyl ether	80.0	77.4		ug/L		97	69 - 120	4	31
3 & 4 Methylphenol	80.0	71.3		ug/L		89	58 - 120	5	30
Hexachlorobenzene	80.0	76.4		ug/L		96	69 - 120	0	30
Naphthalene	80.0	66.5		ug/L		83	39 - 120	0	34
2-Nitroaniline	80.0	75.1		ug/L		94	70 - 120	0	30
3-Nitroaniline	80.0	56.0		ug/L		70	62 - 126	2	35
Anthracene	80.0	72.2		ug/L		90	71 - 120	1	30
4-Nitroaniline	80.0	69.6		ug/L		87	70 - 120	3	34
Carbazole	80.0	75.7		ug/L		95	72 - 120	0	30
Di-n-butyl phthalate	80.0	76.5		ug/L		96	75 - 120	2	30
Nitrobenzene	80.0	69.6		ug/L		87	59 - 120	0	30
Fluoranthene	80.0	78.6		ug/L		98	73 - 120	2	34
2-Nitrophenol	80.0	74.1		ug/L		93	59 - 120	3	30
4-Nitrophenol	160	143		ug/L		89	59 - 129	1	35
Butyl benzyl phthalate	80.0	72.8		ug/L		91	71 - 120	4	30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-204881/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 205553 — **Prep Batch: 204881**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodi-n-propylamine	80.0	74.3		ug/L		93	58 - 120	8	30
Bis(2-ethylhexyl) phthalate	80.0	75.3		ug/L		94	62 - 133	3	30
n-Nitrosodiphenylamine(as diphenylamine)	80.0	68.1		ug/L		85	66 - 120	1	37
3,3'-Dichlorobenzidine	80.0	40.5	J	ug/L		51	10 - 120	5	30
Benzo[a]anthracene	80.0	74.0		ug/L		93	71 - 120	3	30
Chrysene	80.0	72.6		ug/L		91	69 - 120	1	30
Pentachlorophenol	160	141		ug/L		88	57 - 120	3	33
Di-n-octyl phthalate	80.0	76.9		ug/L		96	71 - 120	4	30
Phenanthrene	80.0	75.6		ug/L		94	71 - 120	1	30
Benzo[b]fluoranthene	80.0	76.5		ug/L		96	65 - 120	1	38
Phenol	80.0	69.1		ug/L		86	61 - 120	3	42
Benzo[k]fluoranthene	80.0	77.4		ug/L		97	66 - 120	6	37
Benzo[a]pyrene	80.0	72.3		ug/L		90	63 - 120	1	30
Dibenz(a,h)anthracene	80.0	74.3		ug/L		93	63 - 120	1	30
Pyrene	80.0	72.7		ug/L		91	71 - 120	3	30
Indeno[1,2,3-cd]pyrene	80.0	71.4		ug/L		89	63 - 120	1	30
Benzo[g,h,i]perylene	80.0	71.9		ug/L		90	69 - 120	2	30
Bis(2-chloroethyl)ether	80.0	69.8		ug/L		87	60 - 120	2	34
2,2'-oxybis[1-chloropropane]	80.0	67.8		ug/L		85	49 - 120	5	30
2,4,5-Trichlorophenol	80.0	72.9		ug/L		91	64 - 120	2	30
2,4,6-Trichlorophenol	80.0	73.3		ug/L		92	62 - 120	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*91*		*48 - 104*
2-Fluorophenol	*83*		*41 - 117*
Nitrobenzene-d5	*86*		*52 - 113*
Phenol-d5	*86*		*46 - 120*
Terphenyl-d14	*97*		*41 - 138*
2,4,6-Tribromophenol	*95*		*48 - 126*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 160-92812/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 93362 — **Prep Batch: 92812**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Acenaphthylene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Anthracene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Benzo[a]anthracene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Benzo[b]fluoranthene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Benzo[k]fluoranthene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Benzo[g,h,i]perylene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Benzo[a]pyrene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Chrysene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Dibenz(a,h)anthracene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 160-92812/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 93362 — **Prep Batch: 92812**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Fluorene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Indeno[1,2,3-cd]pyrene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Naphthalene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Phenanthrene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1
Pyrene	33	U	330	33	ug/Kg		12/18/13 11:29	12/18/13 20:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*86*		*53 - 97*	*12/18/13 11:29*	*12/18/13 20:31*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*46 - 111*	*12/18/13 11:29*	*12/18/13 20:31*	*1*
Nitrobenzene-d5 (Surr)	*78*		*55 - 98*	*12/18/13 11:29*	*12/18/13 20:31*	*1*
Phenol-d5 (Surr)	*82*		*54 - 101*	*12/18/13 11:29*	*12/18/13 20:31*	*1*
Terphenyl-d14 (Surr)	*78*		*58 - 123*	*12/18/13 11:29*	*12/18/13 20:31*	*1*
2-Fluorobiphenyl (Surr)	*78*		*56 - 97*	*12/18/13 11:29*	*12/18/13 20:31*	*1*

Lab Sample ID: LCS 160-92812/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 93362 — **Prep Batch: 92812**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	3330	2730		ug/Kg		82	63 - 95
Acenaphthylene	3330	2820		ug/Kg		85	62 - 98
Anthracene	3330	2750		ug/Kg		83	63 - 100
Benzo[a]anthracene	3330	2970		ug/Kg		89	74 - 114
Benzo[b]fluoranthene	3330	2940		ug/Kg		88	68 - 109
Benzo[k]fluoranthene	3330	2800		ug/Kg		84	69 - 111
Benzo[g,h,i]perylene	3330	2820		ug/Kg		84	67 - 121
Benzo[a]pyrene	3330	2930		ug/Kg		88	63 - 103
Chrysene	3330	2750		ug/Kg		83	66 - 100
Dibenz(a,h)anthracene	3330	2880		ug/Kg		86	67 - 114
Fluoranthene	3330	2840		ug/Kg		85	63 - 101
Fluorene	3330	2700		ug/Kg		81	62 - 96
Indeno[1,2,3-cd]pyrene	3330	2870		ug/Kg		86	65 - 120
Naphthalene	3330	2540		ug/Kg		76	60 - 90
Phenanthrene	3330	2760		ug/Kg		83	63 - 99
Pyrene	3330	2890		ug/Kg		87	64 - 102

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*82*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*80*		*46 - 111*
Nitrobenzene-d5 (Surr)	*76*		*55 - 98*
Phenol-d5 (Surr)	*80*		*54 - 101*
Terphenyl-d14 (Surr)	*77*		*58 - 123*
2-Fluorobiphenyl (Surr)	*78*		*56 - 97*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-96898-11 MS — **Client Sample ID: P-B-12_SHALLOW**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 93362 — **Prep Batch: 92812**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	35	U	3490	2540		ug/Kg	☼	73	57 - 94
Acenaphthylene	35	U	3490	2560		ug/Kg	☼	74	57 - 97
Anthracene	35	U	3490	2620		ug/Kg	☼	75	58 - 99
Benzo[a]anthracene	87	J	3490	2860		ug/Kg	☼	79	68 - 114
Benzo[b]fluoranthene	110	J	3490	2680		ug/Kg	☼	74	63 - 107
Benzo[k]fluoranthene	38	J	3490	2510		ug/Kg	☼	71	65 - 108
Benzo[g,h,i]perylene	58	J	3490	2780		ug/Kg	☼	78	54 - 127
Benzo[a]pyrene	60	J	3490	2650		ug/Kg	☼	74	61 - 102
Chrysene	110	J	3490	2650		ug/Kg	☼	73	61 - 100
Dibenz(a,h)anthracene	35	U	3490	3000		ug/Kg	☼	86	59 - 118
Fluoranthene	160	J	3490	2750		ug/Kg	☼	74	58 - 103
Fluorene	35	U	3490	2570		ug/Kg	☼	74	58 - 97
Indeno[1,2,3-cd]pyrene	55	J	3490	2860		ug/Kg	☼	80	56 - 123
Naphthalene	35	U	3490	2180		ug/Kg	☼	63	52 - 86
Phenanthrene	35	U	3490	2640		ug/Kg	☼	76	60 - 98
Pyrene	130	J	3490	2680		ug/Kg	☼	73	53 - 106

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*74*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*77*		*46 - 111*
Nitrobenzene-d5 (Surr)	*67*		*55 - 98*
Phenol-d5 (Surr)	*69*		*54 - 101*
Terphenyl-d14 (Surr)	*69*		*58 - 123*
2-Fluorobiphenyl (Surr)	*70*		*56 - 97*

Lab Sample ID: 680-96898-11 MSD — **Client Sample ID: P-B-12_SHALLOW**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 93362 — **Prep Batch: 92812**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	35	U	3490	2590		ug/Kg	☼	74	57 - 94	2	30
Acenaphthylene	35	U	3490	2650		ug/Kg	☼	76	57 - 97	3	30
Anthracene	35	U	3490	2590		ug/Kg	☼	74	58 - 99	1	30
Benzo[a]anthracene	87	J	3490	2800		ug/Kg	☼	78	68 - 114	2	30
Benzo[b]fluoranthene	110	J	3490	2540		ug/Kg	☼	70	63 - 107	5	30
Benzo[k]fluoranthene	38	J	3490	2510		ug/Kg	☼	71	65 - 108	0	30
Benzo[g,h,i]perylene	58	J	3490	2740		ug/Kg	☼	77	54 - 127	1	30
Benzo[a]pyrene	60	J	3490	2620		ug/Kg	☼	73	61 - 102	1	30
Chrysene	110	J	3490	2590		ug/Kg	☼	71	61 - 100	2	30
Dibenz(a,h)anthracene	35	U	3490	2930		ug/Kg	☼	84	59 - 118	2	30
Fluoranthene	160	J	3490	2690		ug/Kg	☼	73	58 - 103	2	30
Fluorene	35	U	3490	2590		ug/Kg	☼	74	58 - 97	1	30
Indeno[1,2,3-cd]pyrene	55	J	3490	2880		ug/Kg	☼	81	56 - 123	1	30
Naphthalene	35	U	3490	2370		ug/Kg	☼	68	52 - 86	9	30
Phenanthrene	35	U	3490	2630		ug/Kg	☼	75	60 - 98	0	30
Pyrene	130	J	3490	2620		ug/Kg	☼	71	53 - 106	2	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-96898-11 MSD
Matrix: Solid
Analysis Batch: 93362

Client Sample ID: P-B-12_SHALLOW
Prep Type: Total/NA
Prep Batch: 92812

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*73*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*73*		*46 - 111*
Nitrobenzene-d5 (Surr)	*67*		*55 - 98*
Phenol-d5 (Surr)	*69*		*54 - 101*
Terphenyl-d14 (Surr)	*70*		*58 - 123*
2-Fluorobiphenyl (Surr)	*71*		*56 - 97*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Lab Sample ID: MB 320-32034/1-A
Matrix: Water
Analysis Batch: 33810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32034

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	0.60	U	200	0.60	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-2	0.62	U	200	0.62	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-3	0.65	U	200	0.65	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-4	26	U	200	26	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-5	22	U	200	22	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-6	22	U	200	22	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-7	21	U	200	21	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-8	22	U	200	22	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-9	24	U	200	24	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-10	18	U	200	18	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-11	23	U	200	23	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-12/13	23	U	400	23	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-14	19	U	200	19	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-15	25	U	200	25	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-16	3.8	U	200	3.8	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-17	2.7	U	200	2.7	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-18/30	2.3	U	400	2.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-19	3.0	U	200	3.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-20/28	3.44	J	400	1.4	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-21/33	1.3	U	400	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-22	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-23	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-24	2.0	U	200	2.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-25	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-26/29	1.3	U	400	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-27	2.0	U	200	2.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-31	3.25	J	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-32	1.6	U	200	1.6	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-34	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-35	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-36	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-37	1.8	U	200	1.8	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-38	1.4	U	200	1.4	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-39	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32034/1-A
Matrix: Water
Analysis Batch: 33810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32034

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-40/71	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-41	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-42	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-43	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-44/47/65	6.47	J	600	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-45	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-46	1.4	U	200	1.4	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-48	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-49/69	2.79	J	400	0.96	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-50/53	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-51	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-52	8.37	J	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-54	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-55	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-56	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-57	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-58	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-59/62/75	0.84	U	600	0.84	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-60	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-61/70/74/76	1.1	U	800	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-63	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-64	0.79	U	200	0.79	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-66	2.63	J q	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-67	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-68	1.0	U	200	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-72	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-73	0.90	U	200	0.90	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-77	1.6	U	20	1.6	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-78	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-79	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-80	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-81	1.5	U	20	1.5	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-82	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-83	1.6	U	200	1.6	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-84	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-85/116/117	0.98	U	600	0.98	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-86/87/97/108/119/125	1.0	U	1200	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-88/91	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-89	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-90/101/113	3.38	J q	600	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-92	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-93/100	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-107/124	0.93	U	400	0.93	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-94	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-95	3.67	J q	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-96	0.52	U	200	0.52	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-98/102	1.0	U	400	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-99	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32034/1-A
Matrix: Water
Analysis Batch: 33810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32034

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-103	1.0	U	200	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-104	0.49	U	200	0.49	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-105	1.1	U	20	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-106	1.0	U	200	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-110/115	4.25	J q	400	0.90	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-109	0.86	U	200	0.86	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-111	0.82	U	200	0.82	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-112	0.79	U	200	0.79	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-114	1.0	U	20	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-115	4.25	J q	400	0.90	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-118	3.82	J	20	0.99	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-120	0.87	U	200	0.87	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-121	0.82	U	200	0.82	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-122	1.0	U	200	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-123	0.99	U	20	0.99	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-126	1.3	U	20	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-127	1.0	U	200	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-128/166	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-129/138/163	2.65	J q	600	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-130	1.4	U	200	1.4	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-131	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-132	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-133	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-134/143	1.3	U	400	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-135/151	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-136	0.83	U	200	0.83	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-137	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-139/140	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-141	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-142	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-144	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-145	0.80	U	200	0.80	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-146	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-147/149	2.64	J	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-148	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-150	0.75	U	200	0.75	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-152	0.76	U	200	0.76	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-153/168	1.43	J q	400	0.93	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-154	0.99	U	200	0.99	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-155	0.74	U	200	0.74	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-156/157	1.2	U	40	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-158	0.85	U	200	0.85	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-159	0.93	U	200	0.93	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-160	0.98	U	200	0.98	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-161	0.86	U	200	0.86	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-162	0.90	U	200	0.90	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-164	0.95	U	200	0.95	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-165	0.99	U	200	0.99	pg/L		12/17/13 10:53	01/14/14 16:21	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32034/1-A
Matrix: Water
Analysis Batch: 33810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32034

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-167	0.84	U	20	0.84	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-169	1.3	U	20	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-170	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-171/173	1.1	U	400	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-172	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-174	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-175	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-176	0.76	U	200	0.76	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-177	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-178	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-179	0.82	U	200	0.82	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-180/193	0.89	U	400	0.89	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-181	0.91	U	200	0.91	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-182	1.0	U	200	1.0	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-183	0.82	U	200	0.82	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-184	0.84	U	200	0.84	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-185	0.99	U	200	0.99	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-186	0.80	U	200	0.80	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-187	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-188	0.75	U	200	0.75	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-189	1.8	U	20	1.8	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-190	0.83	U	200	0.83	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-191	0.80	U	200	0.80	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-192	0.83	U	200	0.83	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-194	1.5	U	200	1.5	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-195	1.4	U	200	1.4	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-196	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-197	0.76	U	200	0.76	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-198/199	1.2	U	400	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-200	0.77	U	200	0.77	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-201	0.76	U	200	0.76	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-202	0.79	U	200	0.79	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-203	1.1	U	200	1.1	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-204	0.80	U	200	0.80	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-205	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-206	1.8	U	200	1.8	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-207	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-208	1.3	U	200	1.3	pg/L		12/17/13 10:53	01/14/14 16:21	1
PCB-209	1.2	U	200	1.2	pg/L		12/17/13 10:53	01/14/14 16:21	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*71*		*5 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-15L	*80*		*5 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-123L	*81*		*10 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-114L	*80*		*10 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-3L	*66*		*5 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-118L	*81*		*10 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*
PCB-126L	*78*		*10 - 145*	*12/17/13 10:53*	*01/14/14 16:21*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32034/1-A
Matrix: Water
Analysis Batch: 33810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32034

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-202L	102		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-169L	73		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-206L	81		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-37L	75		5 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-19L	80		5 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-188L	96		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-54L	71		5 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-156L/157L	79		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-167L	80		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-209L	75		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-189L	82		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-105L	81		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-208L	95		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-1L	60		5 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-104L	71		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-81L	77		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-77L	79		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-205L	84		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-155L	72		10 - 145	12/17/13 10:53	01/14/14 16:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	76		5 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-111L	83		10 - 145	12/17/13 10:53	01/14/14 16:21	1
PCB-178L	88		10 - 145	12/17/13 10:53	01/14/14 16:21	1

Lab Sample ID: LCS 320-32034/2-A
Matrix: Water
Analysis Batch: 33810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32034

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	2000	1980		pg/L		99	60 - 135
PCB-3	2000	2020		pg/L		101	60 - 135
PCB-4	2000	2050		pg/L		103	60 - 135
PCB-15	2000	1970		pg/L		99	60 - 135
PCB-19	2000	2030		pg/L		102	60 - 135
PCB-37	2000	2040		pg/L		102	60 - 135
PCB-54	2000	2030		pg/L		102	60 - 135
PCB-77	2000	2000		pg/L		100	60 - 135
PCB-81	2000	2020		pg/L		101	60 - 135
PCB-104	2000	2070		pg/L		103	60 - 135
PCB-105	2000	2100		pg/L		105	60 - 135
PCB-114	2000	2040		pg/L		102	60 - 135
PCB-118	2000	2090		pg/L		105	60 - 135
PCB-123	2000	2020		pg/L		101	60 - 135
PCB-126	2000	2080		pg/L		104	60 - 135
PCB-155	2000	2080		pg/L		104	60 - 135
PCB-156/157	4000	4050		pg/L		101	60 - 135
PCB-167	2000	2010		pg/L		100	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-32034/2-A
Matrix: Water
Analysis Batch: 33810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32034

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-169	2000	2080		pg/L		104	60 - 135
PCB-188	2000	2080		pg/L		104	60 - 135
PCB-189	2000	2140		pg/L		107	60 - 135
PCB-202	2000	2130		pg/L		107	60 - 135
PCB-205	2000	1990		pg/L		99	60 - 135
PCB-206	2000	2050		pg/L		102	60 - 135
PCB-208	2000	2020		pg/L		101	60 - 135
PCB-209	2000	2000		pg/L		100	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-4L	*59*		*15 - 145*
PCB-15L	*71*		*15 - 145*
PCB-123L	*79*		*40 - 145*
PCB-114L	*78*		*40 - 145*
PCB-3L	*57*		*15 - 145*
PCB-118L	*79*		*40 - 145*
PCB-126L	*76*		*40 - 145*
PCB-202L	*99*		*40 - 145*
PCB-169L	*71*		*40 - 145*
PCB-206L	*79*		*40 - 145*
PCB-37L	*69*		*15 - 145*
PCB-19L	*67*		*15 - 145*
PCB-188L	*95*		*40 - 145*
PCB-54L	*63*		*15 - 145*
PCB-156L/157L	*77*		*40 - 145*
PCB-167L	*77*		*40 - 145*
PCB-209L	*73*		*40 - 145*
PCB-189L	*79*		*40 - 145*
PCB-105L	*78*		*40 - 145*
PCB-208L	*92*		*40 - 145*
PCB-1L	*49*		*15 - 145*
PCB-104L	*66*		*40 - 145*
PCB-81L	*76*		*40 - 145*
PCB-77L	*75*		*40 - 145*
PCB-205L	*82*		*40 - 145*
PCB-155L	*71*		*40 - 145*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-28L	*73*		*5 - 145*
PCB-111L	*80*		*10 - 145*
PCB-178L	*84*		*10 - 145*

Lab Sample ID: MB 320-33530/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33530

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	1.67	J	20	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33530/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33530

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-2	0.25	U	20	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-3	0.26	U	20	0.26	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-4	17	U	20	17	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-5	3.5	U	20	3.5	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-6	3.5	U	20	3.5	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-7	3.2	U	20	3.2	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-8	3.4	U	20	3.4	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-9	3.7	U	20	3.7	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-10	10	U	20	10	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-11	3.6	U	20	3.6	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-12/13	3.6	U	40	3.6	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-14	3.0	U	20	3.0	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-15	3.5	U	20	3.5	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-16	0.80	U	20	0.80	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-17	0.910	J	20	0.56	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-18/30	1.37	J	40	0.48	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-19	0.66	U	20	0.66	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-20/28	2.03	J	40	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-21/33	1.14	J	40	0.32	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-22	0.37	U	20	0.37	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-23	0.31	U	20	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-24	0.41	U	20	0.41	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-25	0.33	U	20	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-26/29	0.33	U	40	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-27	0.42	U	20	0.42	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-31	1.81	J	20	0.32	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-32	0.32	U	20	0.32	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-34	0.33	U	20	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-35	0.38	U	20	0.38	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-36	0.33	U	20	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-37	0.43	U	20	0.43	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-38	0.36	U	20	0.36	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-39	0.34	U	20	0.34	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-40/71	0.524	J q	40	0.27	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-41	0.35	U	20	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-42	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-43	0.31	U	20	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-44/47/65	1.76	J q	60	0.26	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-45	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-46	0.32	U	20	0.32	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-48	0.28	U	20	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-49/69	1.07	J	40	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-50/53	0.25	U	40	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-51	0.25	U	20	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-52	1.68	J	20	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-54	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-55	0.31	U	20	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-56	0.34	U	20	0.34	pg/g		01/09/14 14:14	02/04/14 15:59	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33530/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33530

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-57	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-58	0.31	U	20	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-59/62/75	0.20	U	60	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-60	0.32	U	20	0.32	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-61/70/74/76	1.37	J	80	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-63	0.29	U	20	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-64	0.480	J	20	0.19	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-66	0.615	J	20	0.34	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-67	0.28	U	20	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-68	0.27	U	20	0.27	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-72	0.29	U	20	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-73	0.21	U	20	0.21	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-77	0.39	U	2.0	0.39	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-78	0.35	U	20	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-79	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-80	0.29	U	20	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-81	0.38	U	2.0	0.38	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-82	0.44	U	20	0.44	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-83	0.47	U	20	0.47	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-84	0.40	U	20	0.40	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-85/116/117	0.29	U	60	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-86/87/97/108/119/125	0.30	U	120	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-88/91	0.33	U	40	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-89	0.37	U	20	0.37	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-90/101/113	0.946	J	60	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-92	0.35	U	20	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-93/100	0.34	U	40	0.34	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-107/124	0.28	U	40	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-94	0.35	U	20	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-95	0.809	J	20	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-96	0.18	U	20	0.18	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-98/102	0.31	U	40	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-99	0.35	U	20	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-103	0.31	U	20	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-104	0.19	U	20	0.19	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-105	0.31	U	2.0	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-106	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-110/115	0.870	J	40	0.27	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-109	0.26	U	20	0.26	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-111	0.24	U	20	0.24	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-112	0.24	U	20	0.24	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-114	0.30	U	2.0	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-115	0.870	J	40	0.27	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-118	0.624	J q	2.0	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-120	0.26	U	20	0.26	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-121	0.24	U	20	0.24	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-122	0.31	U	20	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-123	0.29	U	2.0	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33530/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33530

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-126	0.33	U	2.0	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-127	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-128/166	0.31	U	40	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-129/138/163	0.783	J	60	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-130	0.42	U	20	0.42	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-131	0.40	U	20	0.40	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-132	0.37	U	20	0.37	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-133	0.37	U	20	0.37	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-134/143	0.38	U	40	0.38	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-135/151	0.33	U	40	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-136	0.24	U	20	0.24	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-137	0.33	U	20	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-139/140	0.32	U	40	0.32	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-141	0.35	U	20	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-142	0.37	U	20	0.37	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-144	0.33	U	20	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-145	0.23	U	20	0.23	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-146	0.35	U	20	0.35	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-147/149	0.33	U	40	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-148	0.33	U	20	0.33	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-150	0.22	U	20	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-152	0.22	U	20	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-153/168	0.27	U	40	0.27	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-154	0.29	U	20	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-155	0.27	U	20	0.27	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-156/157	0.24	U	4.0	0.24	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-158	0.25	U	20	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-159	0.20	U	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-160	0.29	U	20	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-161	0.25	U	20	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-162	0.20	U	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-164	0.28	U	20	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-165	0.29	U	20	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-167	0.19	U	2.0	0.19	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-169	0.22	U	2.0	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-170	0.21	U	20	0.21	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-171/173	0.19	U	40	0.19	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-172	0.20	U	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-174	0.20	U	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-175	0.28	U	20	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-176	0.19	U	20	0.19	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-177	0.20	U	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-178	0.30	U	20	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-179	0.21	U	20	0.21	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-180/193	0.16	U	40	0.16	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-181	0.16	U	20	0.16	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-182	0.26	U	20	0.26	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-183	0.15	U	20	0.15	pg/g		01/09/14 14:14	02/04/14 15:59	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33530/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33530

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-184	0.21	U	20	0.21	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-185	0.18	U	20	0.18	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-186	0.20	U	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-187	0.27	U	20	0.27	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-188	0.22	U	20	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-189	0.28	U	2.0	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-190	0.15	U	20	0.15	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-191	0.14	U	20	0.14	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-192	0.15	U	20	0.15	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-194	0.28	U	20	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-195	0.26	U	20	0.26	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-196	0.24	U	20	0.24	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-197	0.16	U	20	0.16	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-198/199	0.25	U	40	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-200	0.16	U	20	0.16	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-201	0.16	U	20	0.16	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-202	0.19	U	20	0.19	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-203	0.22	U	20	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-204	0.17	U	20	0.17	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-205	0.19	U	20	0.19	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-206	0.22	U	20	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-207	0.16	U	20	0.16	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-208	0.20	U	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
PCB-209	0.875	J	20	0.20	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Monochlorobiphenyls	1.67	J	200	0.25	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Dichlorobiphenyls	17	U	200	17	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Trichlorobiphenyls	7.25	J	200	0.41	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Tetrachlorobiphenyls	7.50	J q	200	0.29	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Pentachlorobiphenyls	3.25	J q	200	0.31	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Hexachlorobiphenyls	0.783	J	200	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Heptachlorobiphenyls	0.30	U	200	0.30	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Octachlorobiphenyls	0.28	U	200	0.28	pg/g		01/09/14 14:14	02/04/14 15:59	1
Total Nonachlorobiphenyls	0.22	U	200	0.22	pg/g		01/09/14 14:14	02/04/14 15:59	1
Polychlorinated biphenyls, Total	21.3	J q	200	2.0	pg/g		01/09/14 14:14	02/04/14 15:59	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*43*		*5 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-15L	*55*		*5 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-123L	*63*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-114L	*62*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-3L	*47*		*5 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-118L	*62*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-126L	*69*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-202L	*74*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-169L	*74*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-206L	*90*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-37L	*52*		*5 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-19L	*55*		*5 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-33530/1-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33530

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-188L	*61*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-54L	*44*		*5 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-156L/157L	*70*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-167L	*67*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-209L	*81*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-189L	*73*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-105L	*65*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-208L	*87*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-1L	*38*		*5 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-104L	*48*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-81L	*59*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-77L	*59*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-205L	*83*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-155L	*49*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*50*		*5 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-111L	*58*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*
PCB-178L	*68*		*10 - 145*	*01/09/14 14:14*	*02/04/14 15:59*	*1*

Lab Sample ID: LCS 320-33530/2-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	200	224		pg/g		112	60 - 135
PCB-3	200	213		pg/g		106	60 - 135
PCB-4	200	217		pg/g		109	60 - 135
PCB-15	200	223		pg/g		112	60 - 135
PCB-19	200	198		pg/g		99	60 - 135
PCB-37	200	228		pg/g		114	60 - 135
PCB-54	200	225		pg/g		113	60 - 135
PCB-77	200	238		pg/g		119	60 - 135
PCB-81	200	235		pg/g		117	60 - 135
PCB-104	200	227		pg/g		114	60 - 135
PCB-105	200	237		pg/g		119	60 - 135
PCB-114	200	226		pg/g		113	60 - 135
PCB-118	200	237		pg/g		119	60 - 135
PCB-123	200	225		pg/g		112	60 - 135
PCB-126	200	235		pg/g		117	60 - 135
PCB-155	200	228		pg/g		114	60 - 135
PCB-156/157	400	455		pg/g		114	60 - 135
PCB-167	200	227		pg/g		113	60 - 135
PCB-169	200	233		pg/g		117	60 - 135
PCB-188	200	230		pg/g		115	60 - 135
PCB-189	200	242		pg/g		121	60 - 135
PCB-202	200	248		pg/g		124	60 - 135
PCB-205	200	221		pg/g		111	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-33530/2-A
Matrix: Solid
Analysis Batch: 35524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-206	200	231		pg/g		115	60 - 135
PCB-208	200	227		pg/g		114	60 - 135
PCB-209	200	229		pg/g		115	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-4L	*39*		*15 - 145*
PCB-15L	*44*		*15 - 145*
PCB-123L	*47*		*40 - 145*
PCB-114L	*47*		*40 - 145*
PCB-3L	*42*		*15 - 145*
PCB-118L	*47*		*40 - 145*
PCB-126L	*50*		*40 - 145*
PCB-202L	*56*		*40 - 145*
PCB-169L	*61*		*40 - 145*
PCB-206L	*70*		*40 - 145*
PCB-37L	*41*		*15 - 145*
PCB-19L	*46*		*15 - 145*
PCB-188L	*47*		*40 - 145*
PCB-54L	*35*		*15 - 145*
PCB-156L/157L	*57*		*40 - 145*
PCB-167L	*54*		*40 - 145*
PCB-209L	*65*		*40 - 145*
PCB-189L	*58*		*40 - 145*
PCB-105L	*48*		*40 - 145*
PCB-208L	*68*		*40 - 145*
PCB-1L	*36*		*15 - 145*
PCB-104L	*37*	*	*40 - 145*
PCB-81L	*43*		*40 - 145*
PCB-77L	*43*		*40 - 145*
PCB-205L	*66*		*40 - 145*
PCB-155L	*40*		*40 - 145*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-28L	*47*		*5 - 145*
PCB-111L	*56*		*10 - 145*
PCB-178L	*69*		*10 - 145*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-31992/1-A
Matrix: Water
Analysis Batch: 33676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31992

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.15	U	10	0.15	pg/L		12/16/13 16:32	01/10/14 00:48	1
2,3,7,8-TCDF	0.250	J	10	0.11	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,7,8-PeCDD	0.22	U	50	0.22	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,7,8-PeCDF	0.15	U	50	0.15	pg/L		12/16/13 16:32	01/10/14 00:48	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-31992/1-A
Matrix: Water
Analysis Batch: 33676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31992

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,7,8-PeCDF	0.15	U	50	0.15	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,7,8-HxCDD	0.18	U	50	0.18	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,6,7,8-HxCDD	0.12	U	50	0.12	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,7,8,9-HxCDD	0.11	U	50	0.11	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,7,8-HxCDF	0.956	J q	50	0.14	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,6,7,8-HxCDF	0.12	U	50	0.12	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,7,8,9-HxCDF	0.14	U	50	0.14	pg/L		12/16/13 16:32	01/10/14 00:48	1
2,3,4,6,7,8-HxCDF	0.13	U	50	0.13	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,6,7,8-HpCDD	1.39	J	50	0.18	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,6,7,8-HpCDF	2.65	J	50	0.14	pg/L		12/16/13 16:32	01/10/14 00:48	1
1,2,3,4,7,8,9-HpCDF	0.17	U	50	0.17	pg/L		12/16/13 16:32	01/10/14 00:48	1
OCDD	10.1	J	100	0.20	pg/L		12/16/13 16:32	01/10/14 00:48	1
OCDF	4.14	J q	100	0.18	pg/L		12/16/13 16:32	01/10/14 00:48	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*85*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,7,8-PeCDD	*87*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,7,8-PeCDF	*87*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,6,7,8-HxCDD	*93*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-2,3,7,8-TCDF	*88*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*86*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*88*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-1,2,3,4,7,8-HxCDF	*88*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*
13C-OCDD	*87*		*40 - 135*	*12/16/13 16:32*	*01/10/14 00:48*	*1*

Lab Sample ID: LCS 320-31992/2-A
Matrix: Water
Analysis Batch: 33676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	200	218		pg/L		109	64 - 142
2,3,7,8-TCDF	200	221		pg/L		111	71 - 142
1,2,3,7,8-PeCDD	1000	1090		pg/L		109	71 - 140
1,2,3,7,8-PeCDF	1000	1130		pg/L		113	76 - 135
2,3,4,7,8-PeCDF	1000	1110		pg/L		111	74 - 137
1,2,3,4,7,8-HxCDD	1000	1040		pg/L		104	56 - 146
1,2,3,6,7,8-HxCDD	1000	1150		pg/L		115	73 - 144
1,2,3,7,8,9-HxCDD	1000	1080		pg/L		108	71 - 151
1,2,3,4,7,8-HxCDF	1000	1190		pg/L		119	75 - 131
1,2,3,6,7,8-HxCDF	1000	1200		pg/L		120	76 - 133
1,2,3,7,8,9-HxCDF	1000	1150		pg/L		115	77 - 142
2,3,4,6,7,8-HxCDF	1000	1230		pg/L		123	80 - 137
1,2,3,4,6,7,8-HpCDD	1000	1070		pg/L		107	78 - 139
1,2,3,4,6,7,8-HpCDF	1000	1100		pg/L		110	79 - 133
1,2,3,4,7,8,9-HpCDF	1000	1060		pg/L		106	83 - 130
OCDD	2000	2080		pg/L		104	80 - 132
OCDF	2000	1960		pg/L		98	72 - 140

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-31992/2-A
Matrix: Water
Analysis Batch: 33676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31992

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*86*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*89*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*89*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*91*		*40 - 135*
13C-2,3,7,8-TCDF	*88*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*90*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*91*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*87*		*40 - 135*
13C-OCDD	*93*		*40 - 135*

Lab Sample ID: MB 320-33163/1-A
Matrix: Solid
Analysis Batch: 33792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33163

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.014	U	1.0	0.014	pg/g		01/03/14 14:52	01/10/14 11:09	1
2,3,7,8-TCDF	0.010	U	1.0	0.010	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,7,8-PeCDD	0.021	U	5.0	0.021	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,7,8-PeCDF	0.013	U	5.0	0.013	pg/g		01/03/14 14:52	01/10/14 11:09	1
2,3,4,7,8-PeCDF	0.013	U	5.0	0.013	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,4,7,8-HxCDD	0.018	U	5.0	0.018	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,6,7,8-HxCDD	0.016	U	5.0	0.016	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,7,8,9-HxCDD	0.030	U	5.0	0.030	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,4,7,8-HxCDF	0.0510	J q	5.0	0.0099	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,6,7,8-HxCDF	0.0228	J q	5.0	0.0084	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,7,8,9-HxCDF	0.010	U	5.0	0.010	pg/g		01/03/14 14:52	01/10/14 11:09	1
2,3,4,6,7,8-HxCDF	0.0093	U	5.0	0.0093	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,4,6,7,8-HpCDD	0.0699	J q	5.0	0.023	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,4,6,7,8-HpCDF	0.119	J	5.0	0.016	pg/g		01/03/14 14:52	01/10/14 11:09	1
1,2,3,4,7,8,9-HpCDF	0.019	U	5.0	0.019	pg/g		01/03/14 14:52	01/10/14 11:09	1
OCDD	1.03	J	10	0.021	pg/g		01/03/14 14:52	01/10/14 11:09	1
OCDF	0.334	J	10	0.019	pg/g		01/03/14 14:52	01/10/14 11:09	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*69*		*40 - 135*	*01/03/14 14:52*	*01/10/14 11:09*	*1*
13C-1,2,3,7,8-PeCDD	*68*		*40 - 135*	*01/03/14 14:52*	*01/10/14 11:09*	*1*
13C-1,2,3,7,8-PeCDF	*69*		*40 - 135*	*01/03/14 14:52*	*01/10/14 11:09*	*1*
13C-1,2,3,6,7,8-HxCDD	*79*		*40 - 135*	*01/03/14 14:52*	*01/10/14 11:09*	*1*
13C-2,3,7,8-TCDF	*70*		*40 - 135*	*01/03/14 14:52*	*01/10/14 11:09*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*70*		*40 - 135*	*01/03/14 14:52*	*01/10/14 11:09*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*72*		*40 - 135*	*01/03/14 14:52*	*01/10/14 11:09*	*1*
13C-1,2,3,4,7,8-HxCDF	*72*		*40 - 135*	*01/03/14 14:52*	*01/10/14 11:09*	*1*
13C-OCDD	*68*		*40 - 135*	*01/03/14 14:52*	*01/10/14 11:09*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-33163/2-A
Matrix: Solid
Analysis Batch: 33792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	20.0	24.8		pg/g		124	77 - 130
2,3,7,8-TCDF	20.0	25.3		pg/g		126	79 - 137
1,2,3,7,8-PeCDD	100	122		pg/g		122	79 - 134
1,2,3,7,8-PeCDF	100	129		pg/g		129	81 - 134
2,3,4,7,8-PeCDF	100	124		pg/g		124	76 - 132
1,2,3,4,7,8-HxCDD	100	105		pg/g		105	65 - 144
1,2,3,6,7,8-HxCDD	100	125		pg/g		125	73 - 147
1,2,3,7,8,9-HxCDD	100	117		pg/g		117	80 - 143
1,2,3,4,7,8-HxCDF	100	130		pg/g		130	72 - 140
1,2,3,6,7,8-HxCDF	100	142		pg/g		142	63 - 152
1,2,3,7,8,9-HxCDF	100	132		pg/g		132	72 - 152
2,3,4,6,7,8-HxCDF	100	140		pg/g		140	72 - 151
1,2,3,4,6,7,8-HpCDD	100	123		pg/g		123	86 - 134
1,2,3,4,6,7,8-HpCDF	100	126		pg/g		126	81 - 137
1,2,3,4,7,8,9-HpCDF	100	118		pg/g		118	79 - 139
OCDD	200	248		pg/g		124	80 - 137
OCDF	200	240		pg/g		120	75 - 141

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*69*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*70*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*70*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*78*		*40 - 135*
13C-2,3,7,8-TCDF	*69*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*70*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*71*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*69*		*40 - 135*
13C-OCDD	*69*		*40 - 135*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-94980/1-A
Matrix: Solid
Analysis Batch: 97291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94980

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13	U	19	13	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Barium	0.24	U	4.8	0.24	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Beryllium	0.16	U	0.48	0.16	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Cadmium	0.095	U	0.48	0.095	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Calcium	13	U	240	13	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Chromium	0.29	U	0.95	0.29	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Cobalt	0.90	U	4.8	0.90	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Copper	0.69	U	2.4	0.69	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Iron	2.8	U	9.5	2.8	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Magnesium	7.9	U	95	7.9	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Manganese	0.15	U	0.95	0.15	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Nickel	0.21	U	3.8	0.21	mg/Kg		12/27/13 10:26	01/09/14 22:54	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 160-94980/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 97291 — **Prep Batch: 94980**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	320	U	480	320	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Lead	0.16	U	0.95	0.16	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Antimony	0.61	U	0.95	0.61	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Silver	0.22	U	0.95	0.22	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Selenium	0.28	U	1.4	0.28	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Titanium	0.60	U	1.9	0.60	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Vanadium	1.2	U	4.8	1.2	mg/Kg		12/27/13 10:26	01/09/14 22:54	1
Zinc	1.9	U	4.8	1.9	mg/Kg		12/27/13 10:26	01/09/14 22:54	1

Lab Sample ID: MB 160-94980/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98572 — **Prep Batch: 94980**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	45	U	95	45	mg/Kg		12/27/13 10:26	01/15/14 16:11	1

Lab Sample ID: LCS 160-94980/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 97291 — **Prep Batch: 94980**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9780	6800		mg/Kg		70	44 - 155
Barium	325	281		mg/Kg		86	74 - 125
Beryllium	92.1	77.5		mg/Kg		84	74 - 126
Cadmium	110	90.4		mg/Kg		82	73 - 139
Calcium	6700	5770		mg/Kg		86	74 - 125
Chromium	93.4	80.1		mg/Kg		86	69 - 130
Cobalt	133	118		mg/Kg		89	74 - 125
Copper	74.7	62.4		mg/Kg		84	73 - 126
Iron	13100	10100		mg/Kg		77	32 - 167
Magnesium	2980	2260		mg/Kg		76	66 - 134
Manganese	443	380		mg/Kg		86	77 - 124
Nickel	109	94.6		mg/Kg		87	72 - 126
Potassium	2770	2380		mg/Kg		86	61 - 138
Lead	152	132		mg/Kg		87	73 - 126
Antimony	121	50.9		mg/Kg		42	21 - 251
Silver	51.9	45.3		mg/Kg		87	66 - 133
Selenium	207	173		mg/Kg		84	69 - 131
Titanium	193	174		mg/Kg		90	29 - 171
Vanadium	110	90.0		mg/Kg		82	67 - 132
Zinc	299	254		mg/Kg		85	71 - 128

Lab Sample ID: LCS 160-94980/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98572 — **Prep Batch: 94980**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	724	696		mg/Kg		96	56 - 144

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 680-96898-8 MS — **Client Sample ID: SC-SS-1_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 97291 — **Prep Batch: 94980**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	12000		990	14800	4	mg/Kg	☼	283	75 - 125
Antimony	3.0	U	49.5	21.9	F1	mg/Kg	☼	44	75 - 125
Barium	230		99.0	292	F1	mg/Kg	☼	64	75 - 125
Beryllium	0.80	U	99.0	97.4		mg/Kg	☼	98	75 - 125
Cadmium	0.48	U	99.0	98.7		mg/Kg	☼	100	75 - 125
Calcium	33000		990	39800	4	mg/Kg	☼	656	75 - 125
Chromium	33		99.0	130		mg/Kg	☼	98	75 - 125
Cobalt	12	J	99.0	110		mg/Kg	☼	99	75 - 125
Copper	27		99.0	124		mg/Kg	☼	98	75 - 125
Iron	18000		990	17600	4	mg/Kg	☼	-24	75 - 125
Lead	27		99.0	120		mg/Kg	☼	94	75 - 125
Magnesium	11000		990	11500	4	mg/Kg	☼	14	75 - 125
Manganese	1400		99.0	1110	4	mg/Kg	☼	-266	75 - 125
Nickel	19		99.0	121		mg/Kg	☼	102	75 - 125
Potassium	2100	J	990	3230		mg/Kg	☼	116	75 - 125
Selenium	1.4	U	49.5	44.1		mg/Kg	☼	89	75 - 125
Silver	1.1	U	19.8	20.8		mg/Kg	☼	105	75 - 125
Titanium	1200		99.0	1270	4	mg/Kg	☼	29	75 - 125
Vanadium	83		99.0	170		mg/Kg	☼	88	75 - 125
Zinc	98		99.0	184		mg/Kg	☼	87	75 - 125

Lab Sample ID: 680-96898-8 MS — **Client Sample ID: SC-SS-1_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98572 — **Prep Batch: 94980**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	29000		990	25600	4	mg/Kg	☼	-365	75 - 125

Lab Sample ID: 680-96898-8 MSD — **Client Sample ID: SC-SS-1_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 97291 — **Prep Batch: 94980**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	12000		1050	14800	4	mg/Kg	☼	266	75 - 125	0	30
Antimony	3.0	U	52.6	24.7	F1	mg/Kg	☼	47	75 - 125	12	30
Barium	230		105	315		mg/Kg	☼	83	75 - 125	8	30
Beryllium	0.80	U	105	103		mg/Kg	☼	98	75 - 125	6	30
Cadmium	0.48	U	105	103		mg/Kg	☼	98	75 - 125	4	30
Calcium	33000		1050	49600	4	mg/Kg	☼	1551	75 - 125	22	30
Chromium	33		105	128		mg/Kg	☼	90	75 - 125	2	30
Cobalt	12	J	105	116		mg/Kg	☼	99	75 - 125	5	30
Copper	27		105	130		mg/Kg	☼	98	75 - 125	4	30
Iron	18000		1050	18900	4	mg/Kg	☼	106	75 - 125	7	30
Lead	27		105	124		mg/Kg	☼	91	75 - 125	3	30
Magnesium	11000		1050	11500	4	mg/Kg	☼	13	75 - 125	0	30
Manganese	1400		105	1270	4	mg/Kg	☼	-102	75 - 125	13	30
Nickel	19		105	122		mg/Kg	☼	98	75 - 125	1	30
Potassium	2100	J	1050	3360		mg/Kg	☼	122	75 - 125	4	30

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 680-96898-8 MSD — **Client Sample ID: SC-SS-1_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 97291 — **Prep Batch: 94980**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	1.4	U	52.6	47.3		mg/Kg	☼	90	75 - 125	7	30
Silver	1.1	U	21.0	21.5		mg/Kg	☼	102	75 - 125	3	30
Titanium	1200		105	1140	4	mg/Kg	☼	-97	75 - 125	11	30
Vanadium	83		105	166		mg/Kg	☼	80	75 - 125	2	30
Zinc	98		105	193		mg/Kg	☼	91	75 - 125	5	30

Lab Sample ID: 680-96898-8 MSD — **Client Sample ID: SC-SS-1_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98572 — **Prep Batch: 94980**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	29000		1050	21700	4	mg/Kg	☼	-714	75 - 125	16	30

Lab Sample ID: MB 160-96025/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 97021 — **Prep Batch: 96025**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	80	U	200	80	ug/L		01/03/14 17:29	01/08/14 13:36	1
Barium	4.0	U	50	4.0	ug/L		01/03/14 17:29	01/08/14 13:36	1
Beryllium	0.61	U	5.0	0.61	ug/L		01/03/14 17:29	01/08/14 13:36	1
Cadmium	0.91	U	5.0	0.91	ug/L		01/03/14 17:29	01/08/14 13:36	1
Calcium	110	U	1000	110	ug/L		01/03/14 17:29	01/08/14 13:36	1
Chromium	3.1	U	10	3.1	ug/L		01/03/14 17:29	01/08/14 13:36	1
Cobalt	4.9	U	50	4.9	ug/L		01/03/14 17:29	01/08/14 13:36	1
Copper	4.6	U	25	4.6	ug/L		01/03/14 17:29	01/08/14 13:36	1
Iron	28	U	100	28	ug/L		01/03/14 17:29	01/08/14 13:36	1
Magnesium	130	U	1000	130	ug/L		01/03/14 17:29	01/08/14 13:36	1
Manganese	3.3	U	15	3.3	ug/L		01/03/14 17:29	01/08/14 13:36	1
Nickel	13	U	40	13	ug/L		01/03/14 17:29	01/08/14 13:36	1
Potassium	1700	U	5000	1700	ug/L		01/03/14 17:29	01/08/14 13:36	1
Lead	1.5	U	10	1.5	ug/L		01/03/14 17:29	01/08/14 13:36	1
Antimony	4.0	U	10	4.0	ug/L		01/03/14 17:29	01/08/14 13:36	1
Silver	6.0	U	10	6.0	ug/L		01/03/14 17:29	01/08/14 13:36	1
Selenium	2.7	U	15	2.7	ug/L		01/03/14 17:29	01/08/14 13:36	1
Sodium	320	U	1000	320	ug/L		01/03/14 17:29	01/08/14 13:36	1
Titanium	2.4	U	20	2.4	ug/L		01/03/14 17:29	01/08/14 13:36	1
Vanadium	4.1	U	50	4.1	ug/L		01/03/14 17:29	01/08/14 13:36	1
Zinc	13.0	J	20	5.2	ug/L		01/03/14 17:29	01/08/14 13:36	1

Lab Sample ID: LCS 160-96025/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 97021 — **Prep Batch: 96025**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	10500		ug/L		105	80 - 120
Barium	1000	1040		ug/L		104	80 - 120
Beryllium	1000	1050		ug/L		105	80 - 120
Cadmium	1000	1040		ug/L		104	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 160-96025/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 97021 — **Prep Batch: 96025**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	10000	10900		ug/L		109	80 - 120
Chromium	1000	1010		ug/L		101	80 - 120
Cobalt	1000	1080		ug/L		108	80 - 120
Copper	1000	1080		ug/L		108	80 - 120
Iron	10000	10600		ug/L		106	80 - 120
Magnesium	10000	9960		ug/L		100	80 - 120
Manganese	1000	1080		ug/L		108	80 - 120
Nickel	1000	1100		ug/L		110	80 - 120
Potassium	10000	11700		ug/L		117	80 - 120
Lead	1000	1090		ug/L		109	80 - 120
Antimony	500	513		ug/L		103	80 - 120
Silver	200	201		ug/L		100	80 - 120
Selenium	500	516		ug/L		103	80 - 120
Sodium	10000	11700		ug/L		117	80 - 120
Titanium	1000	1020		ug/L		102	80 - 120
Vanadium	1000	1040		ug/L		104	80 - 120
Zinc	1000	1070		ug/L		107	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-94981/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 95496 — **Prep Batch: 94981**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.25	U	0.95	0.25	mg/Kg		12/27/13 10:30	12/31/13 02:42	2
Niobium	0.36	U	2.4	0.36	mg/Kg		12/27/13 10:30	12/31/13 02:42	2
Thallium	0.14	U	0.48	0.14	mg/Kg		12/27/13 10:30	12/31/13 02:42	2
Uranium	0.019	U	0.095	0.019	mg/Kg		12/27/13 10:30	12/31/13 02:42	2

Lab Sample ID: LCS 160-94981/12-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 95496 — **Prep Batch: 94981**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	48.4	51.5	E	mg/Kg		106	80 - 120
Uranium	96.9	97.9		mg/Kg		101	80 - 120

Lab Sample ID: LCS 160-94981/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 95620 — **Prep Batch: 94981**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	109	112		mg/Kg		103	70 - 131
Thallium	171	179		mg/Kg		105	68 - 131

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-96898-8 MS — **Client Sample ID: SC-SS-1_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 95496 — **Prep Batch: 94981**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.7	J	99.0	108		mg/Kg	☼	105	75 - 125
Niobium	7.8	J	49.5	31.0	F1	mg/Kg	☼	47	75 - 125
Thallium	0.72	U	19.8	21.0		mg/Kg	☼	106	75 - 125
Uranium	1.7		99.0	105		mg/Kg	☼	105	75 - 125

Lab Sample ID: 680-96898-8 MSD — **Client Sample ID: SC-SS-1_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 95496 — **Prep Batch: 94981**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.7	J	105	112		mg/Kg	☼	102	75 - 125	3	30
Niobium	7.8	J	52.6	34.3	F1	mg/Kg	☼	50	75 - 125	10	30
Thallium	0.72	U	21.0	22.6		mg/Kg	☼	107	75 - 125	7	30
Uranium	1.7		105	112		mg/Kg	☼	104	75 - 125	6	30

Lab Sample ID: MB 160-96024/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 96993 — **Prep Batch: 96024**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	U	10	1.2	ug/L		01/03/14 17:29	01/09/14 00:26	1
Niobium	2.2	U	25	2.2	ug/L		01/03/14 17:29	01/09/14 00:26	1
Thallium	0.55	U	2.0	0.55	ug/L		01/03/14 17:29	01/09/14 00:26	1
Uranium	0.23	U	1.0	0.23	ug/L		01/03/14 17:29	01/09/14 00:26	1

Lab Sample ID: LCS 160-96024/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 96993 — **Prep Batch: 96024**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	950		ug/L		95	80 - 120
Niobium	500	518	E	ug/L		104	80 - 120
Thallium	200	206		ug/L		103	80 - 120
Uranium	1000	985		ug/L		98	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 160-90942/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91160 — **Prep Batch: 90942**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		12/10/13 09:56	12/11/13 14:16	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 160-90942/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91160 — **Prep Batch: 90942**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.30		ug/L		106	80 - 120

Lab Sample ID: 680-96898-13 MS — **Client Sample ID: RINSATE**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91160 — **Prep Batch: 90942**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.060	U	5.00	5.49		ug/L		110	80 - 120

Lab Sample ID: 680-96898-13 MSD — **Client Sample ID: RINSATE**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91160 — **Prep Batch: 90942**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.060	U	5.00	5.25		ug/L		105	80 - 120	4	20

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 160-90478/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 91139 — **Prep Batch: 90478**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	U	0.031	0.010	mg/Kg		12/09/13 13:42	12/11/13 13:19	1

Lab Sample ID: LCS 160-90478/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 91139 — **Prep Batch: 90478**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	16.3	15.2		mg/Kg		93	51 - 148

Lab Sample ID: 680-96898-8 MS — **Client Sample ID: SC-SS-1_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 91139 — **Prep Batch: 90478**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.015	J	0.777	0.772		mg/Kg	☼	97	80 - 120

Lab Sample ID: 680-96898-8 MSD — **Client Sample ID: SC-SS-1_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 91139 — **Prep Batch: 90478**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.015	J	0.784	0.749		mg/Kg	☼	94	80 - 120	3	30

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) (Continued)

Lab Sample ID: MB 160-91133/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 92199 — **Prep Batch: 91133**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0101	J	0.031	0.010	mg/Kg		12/11/13 13:37	12/15/13 13:33	1

Lab Sample ID: LCS 160-91133/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 92199 — **Prep Batch: 91133**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	16.3	16.7		mg/Kg		102	51 - 148

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-91124/9 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0040	U	0.020	0.0040	mg/L			12/07/13 19:23	1
Chloride	0.020	U	0.20	0.020	mg/L			12/07/13 19:23	1
Sulfate	0.050	U	0.50	0.050	mg/L			12/07/13 19:23	1

Lab Sample ID: LCS 160-91124/10 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.400	0.380		mg/L		95	90 - 110
Chloride	2.00	1.95		mg/L		97	90 - 110
Sulfate	8.00	7.62		mg/L		95	90 - 110

Lab Sample ID: 680-96898-13 MS — **Client Sample ID: RINSATE**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91124

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.19		0.400	0.624		mg/L		110	90 - 110
Chloride	4.5		2.00	6.84	F	mg/L		116	90 - 110
Sulfate	5.2		4.00	9.07		mg/L		97	90 - 110

Lab Sample ID: 680-96898-13 MSD — **Client Sample ID: RINSATE**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91124

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.19		0.400	0.627		mg/L		110	90 - 110	0	20
Chloride	4.5		2.00	6.85	F	mg/L		117	90 - 110	0	20
Sulfate	5.2		4.00	9.11		mg/L		99	90 - 110	0	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 160-98266/3 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98266

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.0200	0.0192	J	mg/L		96	80 - 120
Chloride	0.200	0.209		mg/L		105	80 - 120
Sulfate	0.500	0.479	J	mg/L		96	80 - 120

Lab Sample ID: MB 160-97027/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.040	U	0.20	0.040	mg/Kg			01/13/14 12:21	1
Chloride	0.20	U	2.0	0.20	mg/Kg			01/13/14 12:21	1
Sulfate	0.50	U	5.0	0.50	mg/Kg			01/13/14 12:21	1

Lab Sample ID: LCS 160-97027/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	4.01	3.86		mg/Kg		96	90 - 110
Chloride	20.1	18.3		mg/Kg		91	90 - 110
Sulfate	80.3	76.5		mg/Kg		95	90 - 110

Lab Sample ID: 680-96898-8 MS — **Client Sample ID: SC-SS-1_SS**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1.5	H	4.33	7.01	H F1	mg/Kg	☼	128	90 - 110

Lab Sample ID: 680-96898-8 MSD — **Client Sample ID: SC-SS-1_SS**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98266

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	1.5	H	4.36	5.53	H F2	mg/Kg	☼	93	90 - 110	24	20

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 680-96898-8 MS — **Client Sample ID: SC-SS-1_SS**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate - DL	6500	H	4330	12800	H F1	mg/Kg	☼	146	90 - 110

Method: 300.0 - Anions, Ion Chromatography - DL (Continued)

Lab Sample ID: 680-96898-8 MSD — **Client Sample ID: SC-SS-1_SS**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98266

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate - DL	6500	H	4360	14000	H F1	mg/Kg	☼	171	90 - 110	8	20

Method: 300.0 - Anions, Ion Chromatography - DL2

Lab Sample ID: 680-96898-8 MS — **Client Sample ID: SC-SS-1_SS**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride - DL2	13000	H	21600	36500	H	mg/Kg	☼	107	90 - 110

Lab Sample ID: 680-96898-8 MSD — **Client Sample ID: SC-SS-1_SS**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98266

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride - DL2	13000	H	21800	34100	H	mg/Kg	☼	95	90 - 110	7	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-94280/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 94286 — **Prep Batch: 94280**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.3893	U	10.0	4.99	pCi/g		12/23/13 11:18	12/23/13 18:49	1
Gross Beta	2.595		10.0	2.27	pCi/g		12/23/13 11:18	12/23/13 18:49	1

Lab Sample ID: LCS 160-94280/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 94286 — **Prep Batch: 94280**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	27.1	16.36		5.24	4.95	pCi/g	60	44 - 140
Gross Beta	26.8	26.95		4.16	2.66	pCi/g	101	38 - 130

Lab Sample ID: MB 160-95516/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 95840 — **Prep Batch: 95516**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.05583	U	3.00	1.44	pCi/L		12/31/13 12:16	01/02/14 18:28	1
Gross Beta	-0.06862	U	4.00	0.833	pCi/L		12/31/13 12:16	01/02/14 18:28	1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity (Continued)

Lab Sample ID: LCS 160-95516/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 95840 — **Prep Batch: 95516**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	53.8	48.83		7.27	1.91	pCi/L	91	75 - 125

Lab Sample ID: LCSB 160-95516/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 95840 — **Prep Batch: 95516**

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Beta	98.2	94.35		9.96	0.993	pCi/L	96	75 - 125

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-94333/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98110 — **Prep Batch: 94333**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	0.1208	U		0.393	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Bismuth-212	-0.1137	U		1.56	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Bismuth-214	0.06744	U		0.204	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Bismuth-210M	0.02172	U		0.132	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Cesium-134	0.01890	U		0.0532	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Cesium-137	0.0000	U		0.0658	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Cobalt-57	0.0000	U		0.0580	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Cobalt-60	0.0000	U		0.377	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Lead-212	-0.03959	U		0.157	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Lead-214	-0.01117	U		0.239	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Potassium-40	-0.08341	U		1.76	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Protactinium-231	0.07350	U		3.03	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Protactinium-234	0.05108	U		0.174	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Radium-224	-0.04467	U		1.78	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Thallium-208	-0.05488	U		0.158	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Thorium-227	0.01782	U		0.539	pCi/g		12/23/13 16:53	01/14/14 20:01	1
Thorium-234	0.03218	U		2.05	pCi/g		12/23/13 16:53	01/14/14 20:01	1

Lab Sample ID: LCS 160-94333/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98430 — **Prep Batch: 94333**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Cesium-137	31.3	30.07		3.24	0.320	pCi/g	96	87 - 120
Cobalt-60	23.5	22.83		2.37	0.181	pCi/g	97	87 - 115
Americium-241	97.5	97.06		10.2	1.39	pCi/g	100	87 - 116

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: MB 160-94337/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 97890 — **Prep Batch: 94337**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	-0.4580	U		45.5	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Bismuth-212	-19.18	U		148	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Bismuth-214	-1.271	U		29.7	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Bismuth-210M	0.4886	U		15.2	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Cesium-134	-0.1895	U		12.8	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Cesium-137	0.0000	U		14.0	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Cobalt-57	0.7235	U		7.47	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Cobalt-60	-3.036	U		15.9	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Lead-212	7.985	U		19.3	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Lead-214	6.238	U		25.2	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Potassium-40	-31.49	U		219	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Protactinium-231	-54.05	U		285	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Protactinium-234	5.830	U		41.8	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Radium-224	2.040	U		181	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Thallium-208	-3.845	U		15.0	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Thorium-227	-17.75	U		69.9	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Thorium-231	15.22	U		63.7	pCi/L		12/23/13 17:56	01/13/14 02:14	1
Thorium-234	83.40	U		202	pCi/L		12/23/13 17:56	01/13/14 02:14	1

Lab Sample ID: LCS 160-94337/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 97574 — **Prep Batch: 94337**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Cesium-137	50500	49390		4960	224	pCi/L	98	90 - 111
Cobalt-60	59800	58270		5760	117	pCi/L	97	89 - 110
Americium-241	137000	132800		15300	554	pCi/L	97	90 - 111

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-90415/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 95535 — **Prep Batch: 90415**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.06187	U	1.00	0.152	pCi/L		12/09/13 11:35	12/31/13 07:55	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.5*		*40 - 110*	*12/09/13 11:35*	*12/31/13 07:55*	*1*

Lab Sample ID: LCS 160-90415/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 95535 — **Prep Batch: 90415**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.2	9.817		1.06	0.144	pCi/L	87	68 - 137

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-90415/2-A
Matrix: Water
Analysis Batch: 95535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90415

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	102		40 - 110

Lab Sample ID: MB 160-92022/1-A
Matrix: Solid
Analysis Batch: 96777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92022

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.1340	U	1.00	0.238	pCi/g		12/13/13 15:38	01/08/14 16:22	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	109		40 - 110	12/13/13 15:38	01/08/14 16:22	1

Lab Sample ID: LCS 160-92022/2-A
Matrix: Solid
Analysis Batch: 96777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92022

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.2	11.58		1.29	0.246	pCi/g	103	65 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	109		40 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-90417/1-A
Matrix: Water
Analysis Batch: 95465

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 90417

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	-0.1412	U	1.00	0.441	pCi/L		12/09/13 11:40	12/30/13 11:00	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110	12/09/13 11:40	12/30/13 11:00	1
Y Carrier	85.6		40 - 110	12/09/13 11:40	12/30/13 11:00	1

Lab Sample ID: LCS 160-90417/2-A
Matrix: Water
Analysis Batch: 95465

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90417

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Radium-228	4.04	4.297		0.602	0.370	pCi/L	106	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	102		40 - 110

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-90417/2-A
Matrix: Water
Analysis Batch: 95465

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 90417

Carrier	LCS %Yield	LCS Qualifier	Limits
Y Carrier	86.7		40 - 110

Lab Sample ID: MB 160-92024/1-A
Matrix: Solid
Analysis Batch: 96785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92024

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.06486	U	1.00	0.357	pCi/g		12/13/13 14:41	01/08/14 12:16	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	109		40 - 110	12/13/13 14:41	01/08/14 12:16	1
Y Carrier	90.8		40 - 110	12/13/13 14:41	01/08/14 12:16	1

Lab Sample ID: LCS 160-92024/2-A
Matrix: Solid
Analysis Batch: 96785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92024

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Radium-228	4.02	3.745		0.547	0.336	pCi/g	93	61 - 139

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	109		40 - 110
Y Carrier	89.7		40 - 110

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Lab Sample ID: MB 160-100386/1-A
Matrix: Water
Analysis Batch: 100960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100386

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	-0.008344	U	1.00	0.116	pCi/L		01/22/14 08:57	01/23/14 22:10	1
Thorium-230	0.1637	U	1.00	0.255	pCi/L		01/22/14 08:57	01/23/14 22:10	1
Thorium-232	-0.04458	U	1.00	0.190	pCi/L		01/22/14 08:57	01/23/14 22:10	1

Tracer	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	83.1		30 - 110	01/22/14 08:57	01/23/14 22:10	1

Lab Sample ID: LCS 160-100386/2-A
Matrix: Water
Analysis Batch: 100961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100386

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Thorium-230	8.64	9.640		1.27	0.217	pCi/L	112	81 - 125

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-100386/2-A
Matrix: Water
Analysis Batch: 100961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100386

Tracer	LCS %Yield	LCS Qualifier	Limits
Thorium-229	76.3		30 - 110

Lab Sample ID: LCSD 160-100386/3-A
Matrix: Water
Analysis Batch: 100977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100386

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Thorium-230			8.64	9.553		1.25		0.220	pCi/L	111	81 - 125	0.03	1

Tracer	LCSD %Yield	LCSD Qualifier	Limits
Thorium-229	77.7		30 - 110

Lab Sample ID: MB 160-97453/1-A
Matrix: Solid
Analysis Batch: 99479

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97453

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	0.1825		1.00	0.0734	pCi/g		01/10/14 14:41	01/18/14 16:41	1
Thorium-230	0.1376		1.00	0.104	pCi/g		01/10/14 14:41	01/18/14 16:41	1
Thorium-232	0.04637	U	1.00	0.0814	pCi/g		01/10/14 14:41	01/18/14 16:41	1

Tracer	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	78.3		30 - 110	01/10/14 14:41	01/18/14 16:41	1

Lab Sample ID: LCS 160-97453/2-A
Matrix: Solid
Analysis Batch: 99546

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97453

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Thorium-230			24.5	23.46		2.43		0.248	pCi/g	96	81 - 118		

Tracer	LCS %Yield	LCS Qualifier	Limits
Thorium-229	85.0		30 - 110

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Lab Sample ID: MB 160-97007/1-A
Matrix: Water
Analysis Batch: 98989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97007

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-235/236	-0.01043	U	1.00	0.144	pCi/L		01/09/14 09:41	01/16/14 23:39	1
U-238	0.03623	U	1.00	0.116	pCi/L		01/09/14 09:41	01/16/14 23:39	1
Uranium-233/234	0.03212	U	1.00	0.127	pCi/L		01/09/14 09:41	01/16/14 23:39	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: MB 160-97007/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 98989 — **Prep Batch: 97007**

Tracer	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	85.8		30 - 110	01/09/14 09:41	01/16/14 23:39	1

Lab Sample ID: LCS 160-97007/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 98990 — **Prep Batch: 97007**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-235/236	0.607	0.6640		0.310	0.105	pCi/L	109	
U-238	13.0	13.00		1.63	0.128	pCi/L	100	83 - 121
Uranium-233/234	12.7	12.68		1.60	0.146	pCi/L	100	84 - 120

Tracer	LCS %Yield	LCS Qualifier	Limits
Uranium-232	70.2		30 - 110

Lab Sample ID: LCSD 160-97007/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 98991 — **Prep Batch: 97007**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Uranium-235/236	0.607	0.4230	U	0.599	0.635	pCi/L	70		0.27	1
U-238	13.0	14.49		3.38	0.965	pCi/L	111	83 - 121	0.30	1
Uranium-233/234	12.7	14.04		3.32	0.883	pCi/L	110	84 - 120	0.28	1

Tracer	LCSD %Yield	LCSD Qualifier	Limits
Uranium-232	10.8	X	30 - 110

Lab Sample ID: MB 160-97859/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99258 — **Prep Batch: 97859**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-235/236	0.0000	U	1.00	0.0429	pCi/g		01/10/14 14:41	01/17/14 20:37	1
Uranium-238	0.02294	U	1.00	0.0344	pCi/g		01/10/14 14:41	01/17/14 20:37	1
Uranium-233/234	0.03016	U	1.00	0.0597	pCi/g		01/10/14 14:41	01/17/14 20:37	1

Tracer	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	78.5		30 - 110	01/10/14 14:41	01/17/14 20:37	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-97859/2-A
Matrix: Solid
Analysis Batch: 99259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97859

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-235/236	0.304	0.4293		0.159	0.0634	pCi/g	141	
Uranium-238	6.51	6.291		0.749	0.0335	pCi/g	97	82 - 122
Uranium-233/234	6.37	6.126		0.735	0.0725	pCi/g	96	84 - 120

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*80.8*		*30 - 110*

QC Association Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96898-1

GC/MS VOA

Prep Batch: 90351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-4	K53-B-1_SUB	Total/NA	Solid	5035	
680-96898-4 MS	K53-B-1_SUB	Total/NA	Solid	5035	
680-96898-4 MSD	K53-B-1_SUB	Total/NA	Solid	5035	
680-96898-5	K53-B-1_SUB DUP	Total/NA	Solid	5035	
680-96898-7	RD-B-1_SUB	Total/NA	Solid	5035	
LCS 160-90351/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 160-90351/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 160-90351/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 90507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	8260C	
680-96898-13 MS	RINSATE	Total/NA	Water	8260C	
680-96898-13 MSD	RINSATE	Total/NA	Water	8260C	
680-96898-14	TRIP BLANK	Total/NA	Water	8260C	
LCS 160-90507/4-A	Lab Control Sample	Total/NA	Water	8260C	
MB 160-90507/3-A	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 90521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-4	K53-B-1_SUB	Total/NA	Solid	8260C	90351
680-96898-4 MS	K53-B-1_SUB	Total/NA	Solid	8260C	90351
680-96898-4 MSD	K53-B-1_SUB	Total/NA	Solid	8260C	90351
680-96898-5	K53-B-1_SUB DUP	Total/NA	Solid	8260C	90351
680-96898-7	RD-B-1_SUB	Total/NA	Solid	8260C	90351
LCS 160-90351/2-A	Lab Control Sample	Total/NA	Solid	8260C	90351
LCSD 160-90351/3-A	Lab Control Sample Dup	Total/NA	Solid	8260C	90351
MB 160-90351/1-A	Method Blank	Total/NA	Solid	8260C	90351

GC/MS Semi VOA

Prep Batch: 92812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	3550C	
680-96898-11 MS	P-B-12_SHALLOW	Total/NA	Solid	3550C	
680-96898-11 MSD	P-B-12_SHALLOW	Total/NA	Solid	3550C	
LCS 160-92812/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 160-92812/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 93362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	8270D	92812
680-96898-11 MS	P-B-12_SHALLOW	Total/NA	Solid	8270D	92812
680-96898-11 MSD	P-B-12_SHALLOW	Total/NA	Solid	8270D	92812
LCS 160-92812/2-A	Lab Control Sample	Total/NA	Solid	8270D	92812
MB 160-92812/1-A	Method Blank	Total/NA	Solid	8270D	92812

Prep Batch: 204860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-3	K53-B-1_SS	Total/NA	Solid	3550C	

GC/MS Semi VOA (Continued)

Prep Batch: 204860 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-4	K53-B-1_SUB	Total/NA	Solid	3550C	
680-96898-4 MS	K53-B-1_SUB	Total/NA	Solid	3550C	
680-96898-4 MSD	K53-B-1_SUB	Total/NA	Solid	3550C	
680-96898-5	K53-B-1_SUB DUP	Total/NA	Solid	3550C	
680-96898-6	RD-B-1_SS	Total/NA	Solid	3550C	
680-96898-7	RD-B-1_SUB	Total/NA	Solid	3550C	
LCS 280-204860/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 280-204860/1-A	Method Blank	Total/NA	Solid	3550C	

Prep Batch: 204881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	3520C	
LCS 280-204881/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 280-204881/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 280-204881/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 205429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-3	K53-B-1_SS	Total/NA	Solid	8270C	204860
680-96898-4	K53-B-1_SUB	Total/NA	Solid	8270C	204860
680-96898-4 MS	K53-B-1_SUB	Total/NA	Solid	8270C	204860
680-96898-4 MSD	K53-B-1_SUB	Total/NA	Solid	8270C	204860
680-96898-5	K53-B-1_SUB DUP	Total/NA	Solid	8270C	204860
680-96898-6	RD-B-1_SS	Total/NA	Solid	8270C	204860
680-96898-7	RD-B-1_SUB	Total/NA	Solid	8270C	204860
LCS 280-204860/2-A	Lab Control Sample	Total/NA	Solid	8270C	204860
MB 280-204860/1-A	Method Blank	Total/NA	Solid	8270C	204860

Analysis Batch: 205553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	8270C	204881
LCS 280-204881/2-A	Lab Control Sample	Total/NA	Water	8270C	204881
LCSD 280-204881/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	204881
MB 280-204881/1-A	Method Blank	Total/NA	Water	8270C	204881

Specialty Organics

Prep Batch: 31992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	8290	
LCS 320-31992/2-A	Lab Control Sample	Total/NA	Water	8290	
MB 320-31992/1-A	Method Blank	Total/NA	Water	8290	

Prep Batch: 32034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	HRMS-Sep	
LCS 320-32034/2-A	Lab Control Sample	Total/NA	Water	HRMS-Sep	
MB 320-32034/1-A	Method Blank	Total/NA	Water	HRMS-Sep	

Specialty Organics (Continued)

Prep Batch: 33163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	8290	
680-96898-11 - RA	P-B-12_SHALLOW	Total/NA	Solid	8290	
680-96898-11 - DL	P-B-12_SHALLOW	Total/NA	Solid	8290	
LCS 320-33163/2-A	Lab Control Sample	Total/NA	Solid	8290	
MB 320-33163/1-A	Method Blank	Total/NA	Solid	8290	

Prep Batch: 33530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-1	DD-B-7_SS	Total/NA	Solid	HRMS-Sox	
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	HRMS-Sox	
LCS 320-33530/2-A	Lab Control Sample	Total/NA	Solid	HRMS-Sox	
MB 320-33530/1-A	Method Blank	Total/NA	Solid	HRMS-Sox	

Analysis Batch: 33676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	8290A	31992
LCS 320-31992/2-A	Lab Control Sample	Total/NA	Water	8290A	31992
MB 320-31992/1-A	Method Blank	Total/NA	Water	8290A	31992

Analysis Batch: 33792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	8290A	33163
LCS 320-33163/2-A	Lab Control Sample	Total/NA	Solid	8290A	33163
MB 320-33163/1-A	Method Blank	Total/NA	Solid	8290A	33163

Analysis Batch: 33810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-32034/2-A	Lab Control Sample	Total/NA	Water	1668C	32034
MB 320-32034/1-A	Method Blank	Total/NA	Water	1668C	32034

Analysis Batch: 34055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-11 - RA	P-B-12_SHALLOW	Total/NA	Solid	8290A	33163

Analysis Batch: 34646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-11 - DL	P-B-12_SHALLOW	Total/NA	Solid	8290A	33163

Analysis Batch: 35058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-13	RINSATE	Total/NA	Water	1668C	32034

Analysis Batch: 35524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-33530/2-A	Lab Control Sample	Total/NA	Solid	1668C	33530
MB 320-33530/1-A	Method Blank	Total/NA	Solid	1668C	33530

Analysis Batch: 35526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96898-1	DD-B-7_SS	Total/NA	Solid	1668C	33530
680-96898-11	P-B-12_SHALLOW	Total/NA	Solid	1668C	33530